

Backward Class Youth Relief Committee's

Bhiwapur Mahavidyalaya, Bhiwapur

Dist - Nagpur, Maharashtra 441201

Criteria- 2

Teaching- Learning and Evaluation

2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website.

Academic Session 2018-19



Programme Outcomes
Course Outcomes

Academic session 2018-2019

**Bachelor of Arts, Bachelor of
Commerce & Bachelor of Science**

Bhiwapur Mahavidyalaya, Bhiwapur
Course Outcomes and Programme Outcomes
Index
Bachelor of Arts

Session	Course	Semester	Sr. No.	Subject	
2018-2019	B. A.	First	1	English	
			2	Marathi	
			3	Political Science	
			4	Economics	
			5	English Literature	
			6	Sociology	
			7	History	
			8	Marathi Literature	
			9	Ambedkar Thought	
		Second	10	English	
			11	Marathi	
			12	Political Science	
			13	Economics	
			14	English Literature	
			15	Sociology	
			16	History	
			17	Marathi Literature	
			18	Ambedkar Thought	
		Third	19	English	
			20	Marathi	
			21	Political Science	
			22	Economics	
			23	English Literature	
			24	Sociology	
			25	History	
			26	Marathi Literature	
			27	Ambedkar Thought	
		Fourth	28	English	
			29	Marathi	
			30	Political Science	
			31	Economics	
			32	English Literature	
			33	Sociology	
				34	History
				35	Marathi Literature
				36	Ambedkar Thought
		Fifth	37	English	
			38	Marathi	
			39	Political Science	
			40	Economics	

			41	English Literature
			42	Sociology
			43	History
			44	Marathi Literature
			45	Ambedkar Thought
		Sixth	46	English
			47	Marathi
			48	Political Science
			49	Economics
			50	English Literature
			51	Sociology
			52	History
			53	Marathi Literature
			54	Ambedkar Thought

Bachelor of Commerce

Session	Course	Semester	Sr. No.	Subject
2018-2019	B. Com.	First	1	English
			2	Marathi
			3	Financial Accounting- I
			4	Business Organization
			5	Company Law
			6	Business Economics- I
		Second	7	English
			8	Marathi
			9	Statistics and Business Mathematics
			10	Business Management
			11	Secretarial Practice
			12	Business Economics-II
		Third	13	English
			14	Marathi
			15	Financial Accounting- II
			16	Business Communication and Management
			17	Business Law
			18	Monetary Economics-I
		Fourth	19	English
			20	Marathi
			21	Financial Accounting-III
			22	Skill Development
			23	Income Tax
			24	Monetary Economics-II

		Fifth	25	Financial Accounting-IV
			26	Cost Accounting
			27	Management Process
			28	Indian Economics-I
			29	Computerized Accounting
			30	Auditing
		Sixth	31	Financial Accounting-V
			32	Management Accounting
			33	Advanced Statistics
			34	Indirect Economics-II
			35	Human Resource Management
			36	Industrial Law

Bachelor of Science
(Physics, Chemistry, Mathematics, Zoology and Botany)

Session	Course	Semester	Sr. No.	Subject
2018-2019	B.Sc.	First	1	English
			2	Marathi
			3	Chemistry I & II
			4	Physics I & II
			5	Mathematics I & II
			6	Zoology I & II
			7	Botany I & II
		Second	8	English
			9	Marathi
			10	Chemistry I & II
			11	Physics I & II
			12	Mathematics I & II
			13	Zoology I & II
			14	Botany I & II
		Third	15	Chemistry I & II
			16	Physics I & II
			17	Mathematics I & II
			18	Zoology I & II
		Fourth	19	Botany I & II
			20	Chemistry I & II
			21	Physics I & II
			22	Mathematics I & II
			23	Zoology I & II
			24	Botany I & II
		Fifth	25	Chemistry I & II

		26	Physics I & II
		27	Mathematics I & II
		28	Zoology I & II
		29	Botany I & II
	Sixth	30	Chemistry I & II
		31	Physics I & II
		32	Mathematics I & II
		33	Zoology I & II
		34	Botany I & II

Bachelor of Arts

Department of English

Semester – I

Course Objectives and Course Outcomes

Compulsory English

Programme Outcomes

- CO1. Comprehend the use of language and grammar in the given context.
 CO2. Demonstrate advanced critical thinking skills.
 CO3. Communicate in a variety of contexts and genres.
 CO4. Equipped with Listening, Speaking, Reading and Writing skills.
 CO5. Imbibe the nuances of analyzing a text and reproduce with proper interpretations.

Programme Specific Outcomes (PSOs)

- PSO1. Awaiting job opportunities in translation, transformation and media.
 PSO2. Developing a critical attitude about literary studies.
 PSO3. Imbuing literary research attitude.

Course Objectives

- To understand the inter relationship between works of literature and society.
- To explain the nature of language and literature.
- To obtain the skill of appreciation for literary works.
- To imbue the skills of essay writing.
- To be able to illustrate the nature of literary forms like one-act-play, travelogues, and short story.

Course Outcomes

- Understood the inter relationship between works of literature and society.
- Explained the nature of language and literature.
- Obtained the skill of appreciation for literary works.
- Imbued the skills of essay writing.
- Succeeded in illustrating the nature of literary forms like one-act-play, travelogues, and short story.

Department of Marathi
Course Objectives and Course Outcomes
Compulsory Marathi

साहित्यरंग.भाग-1

Unit I:

प्रकरण-१.उद्दिष्ट- लीळाचरित्रातील मराठी भाषेची जाणीव विद्यार्थ्यांना करून देणे.

साध्य- विद्यार्थ्यांना लीळाचरित्रातील गद्य मराठी भाषेची ओळख झाली.

प्रकरण-२.उद्दिष्ट- शिवकालीन मराठी गद्य भाषाशैली व आज्ञापत्रातील अमात्याची लेखनशैलीची ओळख करणे.

साध्य- आज्ञापत्रातील मराठी गद्य भाषाशैली, अमात्याच्या लेखनशैली वरून छत्रपतीच्या स्वराज्य रक्षणाची जाणीव विद्यार्थ्यांना झाली.

प्रकरण-३.उद्दिष्ट- महात्मा फुले यांनी भारतीय शेतकऱ्यांच्या उत्थानासाठी सांगितलेले उपाय.

साध्य- शेतकऱ्यांची प्रगती व्हावी म्हणून विद्यार्थ्यांनी म. फुल्यांनी शेतकऱ्यांसाठी सुचविलेले उपाय समजून घेतले.

प्रकरण-४.उद्दिष्ट- साने गुरुजींनी सांगितलेली संस्कृती विषयी विद्यार्थ्यांना बोध करणे.

साध्य- सकळ संस्कृतीचा पाया प्रेम असून प्रेमावर संस्कृती आधारलेली असल्याचे विद्यार्थ्यांनी आत्मसात केले.

प्रकरण-५.उद्दिष्ट- शंभर दिडशे वर्षांपूर्वी समाजात स्त्रियांना सासुरवास कसा सहन करावा लागायचा याची जाणीव विद्यार्थ्यांना करणे.

साध्य- लक्ष्मीबाई टिळकांना झालेल्या सासुरवासाचे चित्रणामुळे विद्यार्थ्यांना सासुरवासाबद्दल जाणीव झाली.

Unit II:

कविता- १.उद्दिष्ट- संत ज्ञानेश्वरांनी हरिपावातून सांगितलेल्या नामस्मरणाचे महत्त्व पटवून देणे.

साध्य- हरिच्या नामस्मरणाने संसारातील अनेक प्रकारच्या दुःखातून व संकटातून मुक्ती मिळते याची जाणीव विद्यार्थ्यांना झाली.

कविता-२. उद्दिष्ट- हंस-नल संवादातून तेराव्या शतकातील पंडिता काव्यशैलीची ओळख विद्यार्थ्यांना करून देणे.

साध्य- नल-दमयंती आख्यान काव्याची रघुनाथ पंडितांनी रचलेली आख्यान काव्याची ओळख विद्यार्थ्यांना झाली.

कविता-३.उद्दिष्ट- घनःश्याम सुंदरा या भूपाळीतून शाहिरी काव्य व प्रातःसमयीचे रम्य वातावरणाची जाणीव करून देणे.

साध्य- शाहीर होणाजी बाळा यांचे शाहिरी काव्यातूनच प्रभात समईचे रम्य वातावरणाची जाणीव विद्यार्थ्यांना झाली.

कविता-४.उद्दिष्ट- स्फूर्ती कवितेतून केशवसुतांनी समाजातील रुढी, अन्याय, अत्याचाराला नाहीसे करण्याकरिता केलेल्या बंडाची विद्यार्थ्यांना जाणीव करणे.

साध्य- कवितेतून समाजातील अन्याय, अत्याचार कविच्या काव्य लेखनामुळे व समाजाला काव्यातून उद्बोधन केल्याने झाली हे विद्यार्थ्यांना कळून आले.

कविता-५.उद्दिष्ट- खेड्यातील रात्र कवितेतून बालकविंनी रेखाटलेल्या रात्रीचे भयानक चित्रणाची ओळख करून देणे.

साध्य- पन्नास वर्षांपूर्वी व आजही अतिशय दुर्गम भागातील खेड्यातील परिस्थितीचे व रात्र कशी भयाकूल असते याची खात्री विद्यार्थ्यांना पटली.

Unit III:

प्रकरण- १.उद्दिष्ट- व्यावहारिक मराठीची आवश्यकता जीवन व्यवहारासाठी का आहे याची यथार्थता विद्यार्थ्यांना पटविणे.

साध्य- जीवन व्यवहारात व्यावहारिक मराठीची उपयुक्तता असल्याचे विद्यार्थ्यांना कळले तसेच अनेक व्यवहार क्षेत्रात व्यावहारिक मराठीची उपयुक्तता असल्याचे स्पष्ट झाले.

प्रकरण- २.उद्दिष्ट- भाषिक संवाद व्यवहाराच्या मूलतत्वांची ओळख व माहिती विद्यार्थ्यांना करून देणे.

साध्य- भाषा हे संवादाचे माध्यम असून लेखन, वाचन, श्रवण व भाषण यातून भाषेचा संवाद व्यवहार चालतो हे कळले सोबतच विविध मूलतत्वांची ओळख विद्यार्थ्यांना झाली.

Department of Political Science
Course Objectives and Course Outcomes

Course Objectives

- To understand the basic concept and ideological orientations of Political Science discipline.
- To understand the processes and dynamics of Indian government and Politics.
- To understand the contribution of the main traditions of Indian Political Thought.
- To understand the contribution of the main traditions of Western Political Thinkers to Political Thought.

Course Outcomes

- Understood the basic concepts and ideological orientations of the Political Science discipline.
- Understood the processes and dynamics of Indian government and politics
- Came to know the contribution of the main traditions of Indian Political Thought.
- Understood the contribution of the main traditions of Western Political thinkers to political thought.

Department of Economics

Course Objectives and Course Outcomes

Unit – I

- Objective - To develop preliminary knowledge of Economic concepts for the understanding of Economics Nature, Definition, and Method of Economics Analysis.
- Outcome – Students learned preliminary knowledge of Economic concepts and definitions.

Unit – II

- Objective - To provide an orderly and objective way of thinking about Economic Demand & Supply Theory.
- Outcome- The students learned about the knowledge of Demand and Supply.

Unit – III

- Objective- To gain knowledge about Consumer Behavior Utility Analysis.
- Outcome- The Students gained the knowledge of Consumer Behavior and Utility Analysis

Unit – IV

- Objective –To explain core Economics- various factors of production.
- Outcome - Students learnt about the production function.

Department of English
Course Objectives and Course Outcomes
English Literature

Program Outcomes

- CO1. Comprehend the use of language and grammar in the given context.
- CO2. Demonstrate advanced critical thinking skills.
- CO3. Communicate in a variety of contexts and genres.
- CO4. Equipped with Listening, Speaking, Reading and Writing skills.
- CO5. Imbibe the nuances of analyzing a text and reproduce with proper interpretations.

Programme specific Outcomes (PSOs)

- PSO1. A vailing job opportunities in translation, transformation and media.
- PSO2. Developing a critical attitude about literary studies
- PSO3. Instilling literary research attitude.

Course Objectives

- To understand the inter relationship between works of literature and society.
- To explain the nature of language and literature.
- To obtain the skill of appreciation for literary works.
- To imbue the skills of essay writing.
- To be able to illustrate the nature of literary forms like one-act-play, travelogue, and short story.

Course Outcomes

- Understood the inter relationship between works of literature and society.
- Explained the nature of language and literature.
- Obtained the skill of appreciation for literary works.
- Imbued the skills of essay writing.
- Succeeded in illustrating the nature of literary forms like one-act-play, travelogue, and short story.

Department of Sociology
Course Objectives and Course Outcomes

Introduction

Unit - I Understanding Sociology

Objective - To make students know in detail about Understanding Sociology.

Outcome - Students understood the concept of Understanding Sociology.

Unit – II Basic Concepts in Sociology

Objective - To Make Students Aware of Basic Concepts in Sociology.

Outcome - Students understood the concept of Basic Concepts in Sociology.

Unit - III Socialization

Objective - To Make Students Aware of Socialization.

Outcome - Students understood the concept of Socialization.

Unit – IV Social Structure

Objective - To make the students know in detail about Social Structure.

Outcome - Student understood the concept of Social Structure.

Department of History

Course Objectives and Course Outcomes

After successful completion of three-year Degree Programme in History a student should be able to know;

Programme Outcomes

- PO1: History has an unprecedented significance in human life.
- PO2: The study of history preserves culture.
- PO3: The study of history leads to Socio-Political awareness.
- PO4: Learn about world events.
- PO5: The study of History is important for competitive examination.
- PO6: Conversational skills come and understand the importance of human society.

Course Objectives

- To know the importance of culture gives you the ability to make decisions in yourself.
- To gain the ability to make decisions while living life.
- To gain employment opportunities through competitive examinations.
- To acquire moral values, devotional movement and Sufi sect.

Course Outcomes

- Knew the importance of culture gives you the ability to make decisions in yourself
- Gained the ability to make decisions while living life
- Received employment opportunities through competitive examinations.
- Acquired moral values, devotional movement and Sufi sect.

Department of Marathi

Course Objectives and Course Outcomes

Marathi Literature

Unit I:

तहान (कादंबरी)–

उद्दिष्ट–पाण्याच्या भीषण समस्येमुळे ग्रामीण जीवनातल्या मानवी भाव–भावनांचे आविष्करण करणे.
साध्य–ग्रामीण भागात पाणी टंचाईच्या दिवसात जनतेला कशा हालअपेष्टा सहन कराव्या लागतात याची सत्यता विद्यार्थ्यांना समजली.

Unit II:

साहित्यप्रकार—कथा व कविता—

उद्दिष्ट—कथा व कविता या साहित्य प्रकाराची ओळख व माहिती विद्यार्थ्यांना देणे.

साध्य—कथा व कविता हे साहित्यप्रकार कसे भिन्न आहेत याबद्दल विद्यार्थ्यांना कळून आले.

Semester-II Course Objectives and Course Outcomes Compulsory English

Course Objectives

- To study lessons based on the themes of humor, emotional bonding, ethics and values.
- To motivate themselves even in adverse situations by reading successful people's life sketches.
- To prioritize life's needs over wants.
- To apply grammar lessons to spoken English.
- Grasp the nuances of learning a foreign language.

Course Outcomes

- Studied lessons based on the themes of humor, emotional bonding, ethics and values.
- Motivated themselves even in adverse situations through reading their lives.
- Applied grammar lessons to spoken English.

Course Objectives and Course Outcomes Compulsory Marathi (साहित्यरंग.भाग-1)

Unit I:

प्रकरण— ६.उद्दिष्ट—इरावती कव्याचे व्यक्तिचित्रणाची ओळख पाठाच्या आधारे करून देणे.

साध्य—पु.ल. देशपांडे यांनी इरावती कव्याचे ज्ञान, लेखन व संशोधन याबद्दल दिलेल्या माहितीमूळे विद्यार्थ्यांना कव्याची ओळख पटली व माहिती मिळाली.

प्रकरण— ७.उद्दिष्ट—संस्कार पाठातून नायकाच्या मनावर झालेल्या संस्काराचे चित्रण करून विद्यार्थ्यांच्या मनावर योग्य संस्काराची रूजवणूक करणे.

साध्य—हिंदू मुस्लिम असा जातीभेद असूनही वा.कृ. चोरघडे यांना शालेय जीवनापासून सलमा हीने योग्य असे संस्कार दिले याची विद्यार्थ्यांना जाणिव झाली.

प्रकरण— ८.उद्दिष्ट—ग्रेस पाठातून वेगळ्या व्यक्तिमत्त्वाची ओळख विद्यार्थ्यांना करून देणे.

साध्य—ग्रेस या दुर्बोध व आगळ्या वेगळ्या व्यक्तिचित्रणाची मधुकर केचे यांनी करून दिलेली ओळख विद्यार्थ्यांना माहिती झाली.

प्रकरण—९.उद्दिष्ट—जात चोरीच्या आपत्तीमुळे कोणते संकटे येतात याची जाणीव विद्यार्थ्यांना करून देणे.

साध्य—बाबुराव बागुल यांनी आपली अस्पृश्य महार ही जात लपविल्यामुळे त्यांना आलेला अनुभवाचे वर्णन विद्यार्थ्यांना समजून आले.

प्रकरण—१०.उद्दिष्ट—पुर्णिया या बिहार राज्यातील मागसलेल्या जिल्हयातील लोकांच्या दुःखी कष्टी जीवनाची माहिती विद्यार्थ्यांना देणे.

साध्य—अनिल अवचट यांनी पूर्णियामधून रेखाटलेले स्यांचे बदिस्त जीवन, शाळा, नोकऱ्यांचा प्रश्न, राजकीय परिस्थिती, मजूरांचे हलाकीचे जीवन, उपासमारी इ.ची माहिती विद्यार्थ्यांना मिळाली.

Unit II:

कविता— ६.उद्दिष्ट—मुक्त पक्षी या कवितेतू पिंजऱ्यातील पक्षी स्वातंत्र का नाकारतो याची माहिती देणे.

साध्य—गुलामीची सवय जडल्यामुळे पक्षी पिंजऱ्यातून मुक्त केल्यावरही स्वातंत्र नाकारतो याची ज्ञान विद्यार्थ्यांना प्राप्त झाले.

कविता—७.उद्दिष्ट— जीवन मरणाबद्दल बहिणाबाईनी केलेल्या चिंतनाची सार्थकता पटवून देण.

साध्य—जन्ममृत्यु विषयी कवयित्रीने कवितेत प्रगट केलेले विचार मानवी जीवनाची सार्थकता पटवून देतात याची विद्यार्थ्यांना खात्री पटली.

कविता—८.उद्दिष्ट—राष्ट्रसंतांना गरीबाच्या झोपडीमधील सुखाची माहिती विद्यार्थ्यांना देणे

साध्य—महालातील सुखापेक्षा लहानशा झोपडीतील सुख हे महान असल्याची प्रचिती कवितेच्या भावार्थावरून विद्यार्थ्यांना आली.

कविता—९.उद्दिष्ट—माणसाच्या मनातील मोठेपना नाहिसा होण्याची कविची इश्वराकडे केलेली मागणीचे ज्ञान विद्यार्थ्यांना देणे.

साध्य—कविने आपल्या जीभेवरचा लोभ जळू देण्यासाठी व मी पणाचे साम्राज्य नाहीसे होण्याची कविची भावना विद्यार्थ्यांना समजली.

कविता—१०.उद्दिष्ट—कुसुमाग्रजांच्या कवितेतून मानवी सामर्थ्य निसर्गावर कसे मात करते याची ओळख विद्यार्थ्यांना करून देणं.

साध्य—कवितेतील नायकाचा गंगा नदीच्या पुरामुळे संसार उध्वस्त होऊनही सराच्या आर्शिवादाची थाप मागणारा नायक प्रतिकूल परिस्थितीवर मात करून संसार उभा करतो याची विद्यार्थ्यांना प्रेरणा मिळाली.

Unit III:

प्रकरण— ३.उद्दिष्ट—पत्रलेखनाचे स्वरूप, पत्राचे प्रकार, पत्रलेखाचे घटक, वैशिष्ट्ये व पत्राचा नमूना विद्यार्थ्यांना समजावून देणे.

साध्य—विद्यार्थ्यांना पत्राचे रूप कसे असते, घटक कोणते, खजगी पत्रे व कार्यालयीन पत्रे कशी लिहावीत याचे कौशल्य व ज्ञान प्राप्त झाले.

प्रकरण— ४.उद्दिष्ट—सारांशलेखन कसे करावे व सारांश लेखन करतांना कोणती काळजी घ्यावी व सारांशलेखनाचे फायदे याविषयी विद्यार्थ्यांना माहिती देणे.

साध्य—विद्यार्थ्यांना सारांशलेखन करण्याची माहिती मिळाली तसेच दिलेल्या सारांशाचे एक तृतीयांश लेखन करण्याचे कौशल्य प्राप्त होऊन सारांशलेखनाचे फायदे समजले.

Department of Political Science Course Objectives and Course Outcomes

Course objectives

- To understand the processes and dynamics of the Indian government and politics.
- To understand the contribution of the main traditions of Indian Political

Thought.

- To understand the contribution of the main traditions of Western Political Thinkers to Political Thought.

Course Outcomes

- Familiarized with the basic concepts and ideological orientations of the Political Science discipline.
- Exposed to the processes and dynamics of Indian government and politics.
- Made to understand the contribution of the main traditions of Indian Political Thought.
- Made to understand the contribution of the main traditions of Western Political thinkers to Political thought.

Department of Economics

Micro Economics Theory -II

Course Objectives and Course Outcomes

Unit – I: Cost and Revenue Analysis Cost of Production:

Objective- To explain the Kinds of Cost and Revenue Analysis Cost of Production

Outcome –Explained the knowledge of Cost and Revenue Analysis.

Unit – II: Market Structure and Perfect Competition Market

Objective- To explain major types of market Structure and Identify Characteristics of Perfect Competition.

Outcome –Received assignments from the students those are coherent, organized, concise, grammatically correct and well-presented.

Unit – III: Monopoly and Imperfect Competition Market

Objective- To identify and discuss the key concepts of Monopoly and Imperfect Competition Market.

Outcome –Identified economic theory in the Monopoly and Imperfect Competition

Unit – IV: Factors Pricing and Statistics for Economics Factors Pricing:

Objective- To explain the contribution of Factors of production.

Outcome – Students learned about the factor of production.

English Literature

Course Objectives and Course Outcomes

Course Objectives

- To make the students familiar with literary texts in a given historical, geographical, and cultural context.
- To apply critical theories to the reading of multiple genres of literature.
- To make the students able to identify critical ideas and themes.

- To make the students able to write analytically with the help of language competencies.

Course Outcomes

- Students will be familiar with literary texts in a given historical, geographical, and cultural context
- Students should be able to apply critical theories to the reading of multiple genres of literature
- Students should be able to identify and analyze the critical ideas and themes
- Students should be able to write analytically with the help of language competencies
- Students should be able to imbibe, ethical, moral, and cultural values

Department of Sociology Course Objectives and Course Outcomes

Themes and Perspectives

Unit - I Culture and Society

Objective - To Make the students know in detail about culture and society

Outcome - Students understood the concept of culture and society.

Unit - II Social Deviation and Social Control

Objective – To make the students aware of social deviation and social control.

Outcome – Students understood the concept of social deviation and social control.

Unit - III Social Stratification and Social Mobility

Objective - To Make Students know in detail about Social Stratification and Social Mobility.

Outcome – Students understood in detail about Social Stratification and Social Mobility.

Department of History
Course Objectives and Course Outcomes

History of India (1526 - 1761)

Course Objectives

- To understand how the Mughal power was established in India.
- To learn information about Sher Shah Suri and the Mughal administration.
- To get information about Chhatrapati Shivaji and Mughal relationship war took place.
- To understand the Panipat Third War and the arrival of the British.

Course Outcomes

- Understood how the Mughal power was established in India.
- Learned information about Sher Shah Suri and the Mughal administration.
- Student got information about Chhatrapati Shivaji and Mughal relationship war took place.
- Understood the Panipat Third War and the arrival of the British.

Department of Marathi
Marathi Literature
Course Objectives and Course Outcomes

Unit I:

अश्रुचीझाली फुले- नाटक-

उद्दिष्ट-अश्रुची झाली फुले या नाटकातून मानवी जिवनातील कौटुंबिक,सामाजिक व वैज्ञानिक क्षेत्रातील संघर्षप्रवण परिस्थितीविषयी विद्यार्थ्यांना बोध करणे.

साध्य-वसंत कानेटकरांनी नाटकाच्या कथानकातून व रेखाटलेल्या पात्रांतून मानवी जीवन कसे संघर्षाविले आहे याची माहिती विद्यार्थ्यांना मिळाली.

Unit II:

साहित्यप्रकार-कादंबरी, चरित्र,आत्मचरित्र.

उद्दिष्ट-कादंबरी, चरित्र,आत्मचरित्र.या साहित्य प्रकाराची ओळख व माहिती विद्यार्थ्यांना देणे.

साध्य-कादंबरी, चरित्र,आत्मचरित्र.या साहित्य प्रकाराची ओळख व माहिती विद्यार्थ्यांना झाली.

Department of English
Compulsory English
Course Objectives and Course Outcomes

Unit I: Objective-Making students aware of the importance of Honesty.

Outcome-Students tried to examine and applied through the various activities carried out in the class.

Unit II: Objective- Making students realize the beauties of nature and sublime.

Outcome-Students tried to apply the values of nature and the sublime.

Unit III: Objective- Making students understand the social evils of society and the values of Humanity.

Outcome-Students were exposed to the social evils of society through discussion.

Unit IV: Objective-Grammatically correct usage of Narration and Punctuation.

Outcome-Students solved the examples of Narration and Punctuation.

Unit V: Objective-To create the ability to use English for the purpose of communication.

Outcome-Students attempted to use English for the purpose of communication in the Class.

Department of Marathi

Course Objectives and Course Outcomes

Compulsory Marathi

साहित्य संवाद, भाग २

Unit I:

प्रकरण -१.उद्दिष्ट-तेराव्या शतकातील दृष्टांतपाठातील गद्य भाषाशैली, श्रीचक्रधरस्वामीचे चरित्र, महानूभाव पंथा विषयी माहिती देणे.

साध्य-दृष्टांतपाठातील गद्य भाषाशैली, श्रीचक्रधरस्वामीचे चरित्र, महानूभाव पंथाचे समाजाला दिलेले योगदान विद्यार्थ्यांना समजून आणे.

प्रकरण -२.उद्दिष्ट-श्री पुरुष तुलना या पाठातून ताराबाई बिंदे हीने पारतंत्र्यांच्या काळात स्त्रियांच्या नषिबी घेणाऱ्या दुर्गुणांची जाणीव वरून देणे.

साध्य-सर्व प्रकारचे दुर्गुण स्त्रियांतच असतात या पुरुषांच्या पूर्वग्रहदूषित विचारांची विद्यार्थ्यांना माहिती प्राप्त झाली.

प्रकरण -३.उद्दिष्ट-रघुस्ती ववता होण्यासाठी प्र.के.अत्रे यांनी सांगितलेला अनुभव विद्यार्थ्यांना सांगणे.

साध्य-विद्यार्थ्यांनी रघुस्ती ववता होण्यासाठी अग्न्याच्या अनुभवाचा बोध घेतला.

प्रकरण -४.उद्दिष्ट-पंढरपूर व विठ्ठलाचे दर्षनाची माहिती विद्यार्थ्यांना करून देणे.

साध्य -पंढरपूर व पांडुरंगाचे संपूर्ण वर्णन तेथील भौगोलिक परिस्थितीची माहिती विद्यार्थ्यांना प्राप्त झाली.

प्रकरण-५.उद्दिष्ट-राष्ट्रसंतांच्या मते शिक्षक हाच राष्ट्राचा भाग्यविधाता असल्याची खात्री विद्यार्थ्यांना करून देणे.

साध्य-शिक्षकाचे विद्यार्थी, समाजाप्रती केलेल्या संपूर्ण कार्याची व वैश्वव्यापक कार्याची जाणीव विद्यार्थ्यांना कळली.

Unit II:

कविता-१.उद्दिष्ट-संत नामदेवांनी श्रीविठ्ठलाचे वर्णन, विठ्ठलभक्तिते व नामस्मरणाचे महात्म्य विद्यार्थ्यांना सांगणे.

साध्य-अभंगाच्या निपणातून विठ्ठलाच्या अनंत लावण्याची शोभा, विठ्ठलभक्तिते व नामस्मरणाचे महात्म्य विद्यार्थ्यांना कळले.

कविता-२.उद्दिष्ट-मारोपंतांनी सत्संगतीचा वर्णन केलेला महिमा सांगणे.

साध्य-सत्संगतीत समाजजिवनाला उद्बोधन करण्याचे सामर्थ्य आहे याची विद्यार्थ्यांना माहिती मिळाली.

कविता-३.उद्दिष्ट-भला जन्म हा तुला लाभला यातून राम जोषींनी सांगितलेल्या मानवी जीवनाचे सार्थकत्व पटविणे.

साध्य-उपदेशपर लावणीतून मानवी जीवनाची सार्थकता विद्यार्थ्यांना पटली.

कविता-४.उद्दिष्ट-षेतकरी-कष्टकऱ्यांची जीवनगाथा व परिस्थितीचे वर्णन करणे.

साध्य-विद्यार्थी ग्रामीण भागातला असून षेतकऱ्यांच्या परिस्थितीची जाणीव झाली.

कविता- ५.उद्दिष्ट-कवी अनिलांच्या विराणीतून कवी मनाच्या उदासीनतेचे दर्षन घडविणे.

साध्य-कविता लाभलेल्या दुःखामुळे कवित्या मनाला उदासिनाता प्राप्त झाली याची विद्यार्थ्यांना प्रचिती आली.

Unit III:

प्रकरण - १.उद्दिष्ट-इतिवृत्त लेखन, प्रकार,पध्दती व लेखनाची काळजी याविषयी विद्यार्थ्यांना माहिती देणे.

साध्य -इतिवृत्त म्हणजे सभेची नोंद, प्रकार पध्दती व लेखन करतांना घ्यावयाची काळजी याची विद्यार्थ्यांना माहिती मिळाली.

प्रकरण - २.उद्दिष्ट-प्रसारमाध्यमे आणि वृत्तलेखन याविषयी विद्यार्थ्यांना माहितीचे विप्लेषण करणे.

साध्य-दृक श्राव्य प्रसारमाध्यमांच्याद्वारे बातमी, बातमीचे लेखन व वृत्तपत्रीय लेखन कसे केले जाते याची माहिती विद्यार्थ्यांना झाली.

Department of Political Science

Course Objectives and Course Outcomes

Course Objectives

- To explain the vital contemporary emerging issues of center-state relations, political parties, emergence of new leadership at different levels, demand for autonomy movement, ethnic conflicts, etc.
- To understand the strengths and weakness of Indian political processes, both in terms of their effectiveness in responding to public policy needs.
- To understand the current political issues in the context of wider debates about democratic life in India and the capacity of political institutions
- To understand the basic concept and issues concerning human rights and challenges.

Course Outcomes

- Familiarized with the vital contemporary emerging issues of center-state relations, political parties, the emergence of new leadership at different levels, demand for autonomy movement, ethnic conflicts, etc.
- Analyzed the strengths and weakness of Indian political processes, both in terms of their effectiveness in responding to public policy needs and retaining constitutional protections.
- Understood the current political issues in the context of wider debates about democratic life in India and the capacity of political institutions.
- Acquainted with a basic understanding of concepts and issues concerning the Right to Information Act, Human Rights, and Challenges.

Department of Economic
Course Objectives and Course Outcomes

Unit – I Introduction to Macro Economics

Objective – To discuss the Introduction of Macro Economics.

Outcomes – Students understand the concept of Macro Economics.

Unit – II National Income

Objective – To explain the concept of National income.

Outcome – Students understood the various concept of National income.

Unit – III Money and Value of Money

Objective – To evaluate the value of money and theories of the Value of Money.

Outcome – Students learned the theories of Value of Money.

Unit – IV Output and Employment

Objective – To introduce the theory of Employment.

Outcome- Students learnt the theory of Employment.

Department of English
Course Objectives and Course Outcomes
English Literature

Unit I:

Objective- Making students aware of the importance of dreams, Rules, Thoughts and Club Life.

Outcome-Students attempted to preserve the importance of dreams, Rules and Thoughts.

Unit II:

Objective- Making students realize aesthetic satisfaction.

Outcome-Students realized aesthetic satisfaction.

Unit III:

Objective- Making students understand the Novel, the Essay, and the Short story.

Outcome- Students understood the Novel, the Essay, and the Short Story.

Unit IV:

Objective-Making students understand the Literary Terms.

Outcome-Students understood the Literary Terms and their usage.

Department of Marathi
Course Objectives and Course Outcomes
Marathi Literature

Unit I:

तुकारामाचे अभंग-

उद्दिष्ट-संत तुकारामाच्या निवडक वंभर अभंगाच्या आधारे संत तुकारामाचे जीवन कार्य,काव्यशैली व तत्कालीन सामाजिक परिस्थितीची जाणीव विद्यार्थ्यांना करून देणे.

साध्य-संत तुकारामांनी अभंगाच्या माध्यमातून समाजसुधारणेसाठी केलेल्या उद्बोधनाचे मर्म विद्यार्थ्यांना समजून आले.

Unit II:

उद्दिष्ट-काव्यषास्त्र परिचय यातून काव्याची लक्षणे व काव्याच्या प्रयोजन काय याची माहिती विद्यार्थ्यांना देणे.

साध्य-काव्याची लक्षण व काव्याची प्रयोजने कोणती याचे ज्ञान व माहिती विद्यार्थ्यांना प्राप्त झाली

Department of Sociology

Course Objectives and Course Outcomes
Foundations of Social Thought

Unit - I Emergence of Sociology as a Discipline

Objective - To Make the students know in detail about the emergence of sociology as a discipline.

Outcome - Students understood the concept of the emergence of sociology as a discipline

Unit - II Founders of Sociology I

Objective - Students understood the concept of Founders of Sociology-I (August Comte, Herbert Spencer.)

Outcome - Students understood the concept of Founders of Sociology-I (August Comte, Herbert Spencer)

Unit – III Founders of Sociology II

Objective - Students understood the concept of Founders of Sociology-II (Charles of Horton Cooley, Emile Durkheim)

Outcome - Students understood the concept of Founders of Sociology-II(Charles of Horton Cooley, Emile Durkheim)

Unit - IV Founders of Sociology III

Objective - Students understood the concept of Founders of Sociology-III (Karl Marx, Max Weber)

Outcome -Students understood the concept of Founders of Sociology-II(Karl Marx, Max Weber)

Department of History
Course Objectives and Course Outcomes
History of India (1764 - 1884)

Course Objectives

- To study Battle of Buxar and English policy.
- To understand Kayamdhara Methods, Ryotwari , and Lord Wellesley.
- To understand the uprising of 1857 (independent war) results.
- To understand how did nationalism emerge in India?

Course Outcomes

- Studied the Battle of Buxar and how the British implemented their policy in India
- Gained information about working methods, Kaymdhara, ryotwari and Mahalwari and Lord Wellesley deployment forces.
- The uprising of 1857 (independent war) result was known
- Learned how nationalism emerged in India

Department of Marathi
Course Objectives and Course Outcomes
Marathi Literature

Unit I:

उद्दिष्ट-कुसुमाग्रजाच्या रसयात्रा कविता संग्रहाच्या आधारे विविध प्रकारच्या कवितांची ओळख व माहिती विद्यार्थ्यांना देणे.

साध्य-कुसुमाग्रजांच्या कवितासंग्रहातून सामाजिक कविता,राजकीय, राष्ट्रीय कविता, प्रेम कविता,निसर्ग कविता व तत्वज्ञानपर कवितांची माहिती विद्यार्थ्यांना झाली.

Unit II:

उद्दिष्ट-काव्यषास्त्र परिचय यातून काव्यकारण व षड्दषवती याविषयी विद्यार्थ्यांना माहिती देणे.

साध्य-विद्यार्थ्यांना काव्य निर्मितीचे कारण व षड्दव्या अभिदा, व्यंजना व लक्षणा या षड्दषवतीची माहिती प्राप्त झाली.

Semester-IV

Department of English
Course Objectives and Course Outcomes
Compulsory English

Unit I: Objective-Making students aware of the importance of faith and friendship

Outcome-Students understood the value of friendship.

Unit II: Objective- Making students realize about discipline and struggle.

Outcome-Students tried to apply the discipline and struggle in their lives.

Unit III: Objective- Making students understand the presence of the mind.

Outcome- Students were put through various activities to get the feel of it.

Unit IV: Objective-Grammatically correct usage of Tense and Voice.

Outcome-Students tried to solve the examples of Tense and Voice.

Unit V: Objective-To create the ability to use English for the purpose of communication.

Outcome-Students attempted to use English for the purpose of communication in the Class.

Department of Marathi
Course Objectives and Course Outcomes
Compulsory Marathi
साहित्यरंग.भाग.2

Unit I:

प्रकरण - ६,उद्दिष्ट-मराठी माघ महिन्यातील मायावीपणाचे वर्णन विद्यार्थ्यांना करून देणे.

साध्य-मराठी माघ महिन्यातील निसर्गातील विविध बदलाचा विद्यार्थ्यांना अनुभव आला.

प्रकरण - ७,उद्दिष्ट-तपस्वीव्यवती कसा असतो याचे चित्रण विद्यार्थ्यांना करून देणे.

साध्य-पु.भा. भावे यांनी तपस्वीचे केलेले व्यवतीचित्रण ऐकून विद्यार्थ्यांना तपस्वी कसा असतो याची जाणिव झाली.

प्रकरण - ८,उद्दिष्ट-संताचे विचार आत्मसात करून मानसिक परिवर्तन घडून येण्याची आवश्यकता.

साध्य-संताचे विचार आत्मसात केल्याने परीवर्तनाची नवी पहाट उगवत असल्याची जाणिव विद्यार्थ्यांना झाली.

प्रकरण -९,उद्दिष्ट-लपलेला तारा यातून अवकाशातील विविध ताऱ्यांची माहिती विद्यार्थ्यांना करून देणे.

साध्य-ग्रहमालेतील विविध ग्रह व तारे तसेच डायसनचा गोळा याची माहिती विद्यार्थ्यांना झाली.

प्रकरण -१०,उद्दिष्ट-समाजपरिवर्तनातून सामाजिक समता प्रस्थापीत करण्याचे डॉ. आंबेडकरांचे विचार विद्यार्थ्यांना सांगणे.

साध्य-डॉ. आंबेडकरांनी सांगितलेल्या सामाजिक समतेच्या विचाराचा बोध विद्यार्थ्यांनी घेतला.

Unit II:

कविता- ६,उद्दिष्ट-जनसामान्यांचे अनुभव कसे असतात याची कवितेतून माहिती देणे.

साध्य-कवित्या संघर्षप्रवण प्रवृत्तीचा अनुभव एका नव्या संघर्षात या कवितेतून विद्यार्थ्यांना आला.

कविता -७,उद्दिष्ट-स्मरण या कवितेतून जीवनाचे अंतिम सत्य सांगणे.

साध्य-सुरेश भटांनी मृत्यु हेच जीवनाचे अंतिम सत्य असल्याची जाणिव विद्यार्थ्यांना झाली.

कविता- ८,उद्दिष्ट-मानवी मनाचा निसर्गाशी असलेला संबंध उलघडणे.

साध्य-निसर्गाशी असलेले अतूट नाते व त्याच्याशी मानवी मनाचा साधलेला संवाद व्यक्त झाल्याची विद्यार्थ्यांना माहिती मिळाली.

कविता - ९,उद्दिष्ट-मानवी जीवनाच्या विविध टप्प्यावर वंचितांच्या वाट्याला आलेल्या दुःखाची साक्ष पटविणे.

साध्य-मानवी जीवनाच्या विविध टप्प्यावर वंचितांच्या वाट्याला आलेल्या दुःखाची विद्यार्थ्यांना साक्ष पटली.

कविता- १०,उद्दिष्ट-आदिवासिंच्या न्यायासाठी कविने मागीतलेल्या मागणीचा विद्यार्थ्यांना मार्ग सांगणे.

साध्य-आदिवासिंच्या न्याय व हक्कासाठी कविने मागीतलेल्या मागणीचा विद्यार्थ्यांनी मार्ग समजून घेतला.

Unit III:

प्रकरण- ३.उद्दिष्ट-भाषांतर या शास्त्र व कलेची जाणीव विद्यार्थ्यांना करणे.

साध्य-एका भाषेचे दुसऱ्या भाषेत भाषांतर करण्याची कला विद्यार्थ्यांना अवगत झाली.

प्रकरण- ४.उद्दिष्ट-मुलाखत लेखनाचे स्वरूप स्पष्ट करणे.

साध्य-व्यक्तिमत्वाचे दर्शन घडविणे हा मुलाखतीचा मुख्य उद्देश असतो हे विद्यार्थ्यांना कळले.

Department Of Political Science

Course Objectives and Course Outcomes

Course Objectives

- To explain the vital contemporary emerging issues of center-state relations with political parties, the emergence of the new leadership at different levels, demand for autonomy movement, ethnic conflicts etc.
- To understand the strengths and weakness of Indian political processes, both in terms of their effectiveness in responding to public policy needs.
- To understand the current political issues in the context of wider debates about democratic life in India and the capacity of political institutions.
- To understand the basic concept and issues concerning human rights and challenges.

Course Outcomes

- Familiarized with the vital contemporary emerging issues of center-state relations, political parties, the emergence of new leadership at different levels, demand for autonomy movement, ethnic conflicts etc.
- Analyzed the strengths and weakness of Indian political processes, both in terms of their effectiveness in responding to public policy needs and retaining constitutional protections.
- Understood the political issues in context of wider debates about democratic life in India and the capacity of political institutions.
- Acquainted with a basic understanding of concepts and issues concerning Right to Information Act, Human Rights and Challenges.

Department of Economics

Course Objectives and Course Outcomes

Unit -I: Commercial and Central Bank Commercial Banks:

Objective – To explain the function of the Commercial and Central Bank and why it is importance.

Outcome – Students learned the function of the Commercial and Central Bank and why it is important.

Unit –II: RBI and Innovation in Banking Reserve Bank of India:

Objective - Introduce RBI and innovation in Banking Sector.

Outcome – Students learnt about the structure of RBI and its function.

Unit -III: Financial Market Money Market:

Objective – To define Financial Market.

Outcome – Students understood the function of Financial Market.

Unit –IV: Health Economics and Statistics for Economics Health Economics:

Objective – To explain the importance of Health Economics and Statistics.

Outcome – Students understood the knowledge of Health Economics and Statistics

Department of English

Course Objectives and Course Outcomes

English Literature

Unit I: Objective-Making students conscious of the various issues of Indian society.

Outcome-Students attempted to understand the various issues of Indian society

Unit II: Objective- Making students realize revolution and its effects.

Outcome-Students realized equality, revolution, and their effects.

Unit III: Objective- Making students understand the biography, autobiography and Criticism.

Outcome- Students understood the biography, autobiography and Criticism.

Unit IV: Objective- Making students understand the Literary Terms.

Outcome- Students understood the Literary Terms and their usage.

Department of Sociology

Course Objectives and Course Outcomes

Indian Sociological Tradition

Unit - I Theoretical Roots of Caste in India

Objective - To make the students aware of the Theoretical Roots of Caste in India (B.R. Ambedkar, G.S. Ghurye)

Outcome - Student understood the concept of Founders of Theoretical Roots of Caste in India (B.R. Ambedkar, G.S. Ghurye)

Unit - II Social Change from Indian Perspective

Objective - To make the students aware of Social Change from Indian Perspective (M.N. Shrinivas, D.P.Mukharjee)

Outcome - Student understood the concept of Social Change from Indian Perspective (M.N. Shrinivas, D.P.Mukharjee)

Unit - III Indian Society and Contemporary Change

Objective - To make the students aware of Indian Society and Contemporary Change (R.K. Mukharjee, S.C. Dube)

Outcome - Student understood the concept of Indian Society and Contemporary Change (R.K. Mukharjee, S.C. Dube)

Unit - IV Gender and Society in India

Objective - To Make Students Aware of Gender and Society in India (Tarabai Shinde, Jyotiba Fule and Savitribai Fule)

Outcome - Student understood the concept of Gender and Society in India (Tarabai Shinde, Jyotiba Fule and Savitribai Fule)

Department of History Course Objectives and Course Outcomes

History of India (1885 -1947)

Course Objectives

- To study How the National Congress was formed.
- To understand what was the role of Jhal and Mawal.
- To study non-cooperation and civil disobedience movements.
- To learn the Indian Independence Mountaineering Scheme.

Course Outcomes

- Learned about the establishment of the National Congress.
- Understood the role of Jhal and Mawal.
- Information was received about the non-cooperation and civil disobedience movements.
- Gained detailed knowledge of how India became independent.

Department of Marathi Course Objectives and Outcomes Marathi Literature

Unit I:

उद्दिष्ट— कुसुमाग्रजांच्या रसयात्रा कविता संग्रहाच्या आधारे विविध प्रकारच्या कवितांची ओळख व माहिती विद्यार्थ्यांना देणे.

साध्य—कुसुमाग्रजांच्या कवितासंग्रहातून सामाजिक कविता, राजकीय, राष्ट्रीय कविता, प्रेम कविता, निसर्ग कविता व तत्वज्ञानपर कवितांची माहिती विद्यार्थ्यांना झाली.

Unit II:

उद्दिष्ट—काव्यशास्त्र परिचय यातून काव्यकारण व शब्दशक्ती याविषयी विद्यार्थ्यांना माहिती देणे.

साध्य— विद्यार्थ्यांना काव्य निर्मितीचे कारण व शब्दाच्या अभिदा, व्यंजना व लक्षणा या शब्दशक्तीची माहिती प्राप्त झाली.

Department of Marathi
Course Objectives and Course Outcomes
Compulsory Marathi

Unit I:

- प्रकरण —१.उद्दिष्ट—**लीळाचरित्रातून गोविंदप्रभूचे व्यक्तीमत्व व विवाहपध्दतीची माहिती विद्यार्थ्यांना देणे.
साध्य—वीळावो स्वीकारू या लीळेतून गोविंदप्रभूचे चरित्र, विवाहाची पध्दती व प्राचीन काळातील खाद्यापदार्थाची माहिती विद्यार्थ्यांना प्राप्त झाली.
- प्रकरण —२.उद्दिष्ट—**आगरकरांचा सुधारक काढण्याचा कोणता हेतू होता याची जाणीव करून देणे.
साध्य—अज्ञानी भारतीय समाजव्यवस्थेला सज्ञान करण्याच्या हेतून आगरकरांनी सुधारक वृत्तपत्र काढला याचीजाणीवविद्यार्थ्यांना झाली.
- प्रकरण —३.उद्दिष्ट—**युगाला आकार देणारे आम्ही काळपुरुष आहोत याची विद्यार्थ्यांना साक्ष पटविणे.
साध्य—विद्यार्थ्यांनी विनोबा भावेनी सांगितलेल्या सृष्टीच्या दानाचे महत्व ओळखून महत्व लक्ष्यात घेतले.
- प्रकरण —४.उद्दिष्ट—**महाभारतातील मयसभेचे वर्णन व माहिती विद्यार्थ्यांना करून देणे.
साध्य —खांडव वन तेथील भौगोलिक परिस्थिती व पांडवांची मयसभा याची माहिती विद्यार्थ्यांना प्राप्त झाली.
- प्रकरण —५.उद्दिष्ट—**किडलेली माणसं या कथेतून माणसाच्या क्षुद्र विचाराचे दर्शन विद्यार्थ्यांना करून देणे.
साध्य—मानवी जीवनाचे दुःख व विचाराची क्षुद्रता यांची अनुभूती विद्यार्थ्यांना आली
- प्रकरण — ६.उद्दिष्ट—**चक्र या कथेतून महाभारतातील द्रौपदी या स्त्रीचे चित्रण विद्यार्थ्यांना माहित करून देणे.
साध्य—महाभारतातील द्रौपदीच्या मनातील गूढ वगुंतागुंतीचे भावनीक प्रसंगाची माहिती विद्यार्थ्यांना प्राप्त झाली.
- प्रकरण — ७.उद्दिष्ट—**पक्षीगान पाठातून पक्ष्यांच्या सौंदर्याचे दर्शन घडविणे..
साध्य—पक्षीगान मधून विविधक्षी, पक्ष्यांची घरटी, त्यांची पिल्ले यांची माहिती व ओळख विद्यार्थ्यांना झाली.
- प्रकरण — ८.उद्दिष्ट—**अन्वरशा फकीर या मुस्लीम व्यक्तीमत्वाची ओळख विद्यार्थ्यांना करून देणे.
साध्य—लहान मुले, स्त्रीया, माणसे व आजुबाजूच्या गावातील जनतेसाठी उपयुक्त असे अन्वरशा फकीराचे व्यक्तिमत्व असल्याचे विद्यार्थ्यांना कळून आले.
- प्रकरण —९.उद्दिष्ट—**दाभोळकरांच्या अंधश्रध्दा निर्मूलनाचे कार्याची माहिती विद्यार्थ्यांना करून देणे.
साध्य—वैज्ञानिक दृष्टिकोण व शास्त्रीय विचार पध्दतीने अंधश्रध्दा निर्मूलन करण्याचे घ्येय दाभोळकरांचे होतेयाची माहिती विद्यार्थ्यांना झाली.
- प्रकरण —१०.उद्दिष्ट—**महिला ग्रामपंचायतीच्या निवडणुकीचे चित्रण विद्यार्थ्यांना सांगणे.
साध्य—ग्रामीण भागातील ग्रामपंचायत मधील निवडणुकीची माहिती व परिस्थितीची जाणीवविद्यार्थ्यांना आली.

Unit II:

- कविता— १.उद्दिष्ट—**संत तुकारामांनी अभंगाच्या आधारे समाजजीवनाचे वर्णन केलेले चित्रण विद्यार्थ्यांना सांगणे.
साध्य—अभंगाच्या आधारे तत्कालीन सामाजिक परिस्थितीची जाणीव विद्यार्थ्यांना झाली.
- कविता —२.उद्दिष्ट—**शशाहिर प्रभाकरांनी केलेले पंढरीवर्णन वर्णन करणे व महत्व प्रतिपादन करणे.
साध्य—विठ्ठल, रुक्मिणी, व पंढरपूर नगरी, भिमातट याची विद्यार्थ्यांना माहिती मिळाली.
- कविता— ३.उद्दिष्ट—**चाफा या कवितेतून शुध्द प्रेमाचे भाववर्णन करणे.
साध्य—साधे प्रेम व आंतरिक शुध्द प्रेमाची सार्थकता विद्यार्थ्यांना पटली.
- कविता— ४.उद्दिष्ट—**ध्येय आणि परिस्थितीया दोन्हीही ओढल्या जाणाऱ्या जीवाची ओढताण वर्णन करणे.
साध्य—कळा ज्या लागल्या जीवा यातून ज्याचे दुःख त्यालाच सहन करावे लागते याची जाणीव विद्यार्थ्यांना झाली.
- कविता— ५.उद्दिष्ट—**समाधान कवितेतून नायकाच्या वाट्याला आलेल्या कष्टपद जीवनाचे दर्शन घडविणे.
साध्य—कविला त्याच्या पत्निचा प्रेमळ सहवास व निसर्गरम्य परिसरामुळे जीवन सुसहय वाटते याची साक्ष विद्यार्थ्यांना पटली.
- कविता— ६.उद्दिष्ट—**ही निळी पांढरी कवितेतील शरद ऋतूतील दुपारचे वर्णन करून देणे.
साध्य—इंदिरा संतानी केलेलीशरद ऋतूतील उन्हाची माहिती विद्यार्थ्यांना प्राप्त झाली.
- कविता —७.उद्दिष्ट—**दोन ज्योती यातून कविने वर्णन केलेल्या दोन ज्योतीचा उलघडा करणे .
साध्य—एक दुःखाची ज्योत लाल असते व दुसरी दुःखाची ज्योत काळी असून तीचे दुःख कायम टिकणारे असते याची जाणीव विद्यार्थ्यांना झाली.
- कविता— ८.उद्दिष्ट—**पाऊस कवितेतून स्त्री मनाच्या विविध भावावस्था विद्यार्थ्यांना उलघडून दाखविणे .
साध्य—प्रेस कविने रेखाटलेले स्त्री वेदनेचे स्वरूप व स्त्री मनाच्या भावना याविषयीविद्यार्थ्यांना माहिती मिळाली.
- कविता— ९.उद्दिष्ट—**प्रेम कवितेच्या आधारे कविने रेखाटलेले पीडिताचे चित्रण करून जाणीव करून देणे.

साध्य—मानवी समाजरचनेत माणूसपण विसरत चालला असून पीडितांना न्याय मिळत नसल्याची साक्ष विद्यार्थ्यांना पटली.

कविता— १०.उद्दिष्ट— टाहारा कवितेतून आदिवासी समाजाला कसा पुढारी हवा याची माहिती विद्यार्थ्यांना देणे.

साध्य—कवितेत वर्णन केलेला आदिवासिंचा पुढारी कविला हवा असल्याची जाणीव विद्यार्थ्यांना झाली.

Unit III:

प्रकरण — १.उद्दिष्ट—संपादन प्रक्रिया, प्रेरणा व स्वरूप याविषयीची माहिती विद्यार्थ्यांना देणे.

साध्य —ग्रंथाचे संपादन कसे करावे, संपादनाच्या प्रेरणा कोणत्या, व ग्रंथाचे स्वरूप कसे असते याचे ज्ञान विद्यार्थ्यांना प्राप्त झाले.

प्रकरण — २.उद्दिष्ट—कार्यालयीन लेखनव्यवहाराविषयी विद्यार्थ्यांना माहिती देणे.

साध्य—कार्यालयीन लेखनव्यवहारात टिप्पणी, पध्दती व अिप्पणीचे प्रकार याची माहिती विद्यार्थ्यांना प्राप्त झाली.

प्रकरण — ३.उद्दिष्ट—ग्रंथपरीक्षण कसे करावे व ग्रंथवाचन करताना कोणते घटक बघावेत याची माहिती विद्यार्थ्यांना करणे.

साध्य— ग्रंथपरीक्षण करताना परिक्षणाची पहीली पायरी ग्रंथवाचन होय त्यानंतर इतर बाबींकडे लक्ष्य द्यावे याची माहिती विद्यार्थ्यांना प्राप्त झाली.

प्रकरण — ४.उद्दिष्ट—इंटरनेट आणि मराठी भाषा व साहित्य याची माहिती विद्यार्थ्यांना करून देणे.

साध्य— संगणक संवाद,मराठी संकेतस्थळे, इंटरनेटवरील मराठी दैनिके, व मायबोली या संकेतस्थळावरील लेख, कविता, व इतर मराठी साहित्याची माहिती विद्यार्थ्यांना झाली.

Department of Political Science

Course Objectives and Course Outcomes

Course Objectives

- To understand the difference between scholarly and popular publications in Comparative Politics.
- To understand the issues of International and Domestic Politics and Public Policy.
- To analyze contemporary problems in the countries under consideration in light of the conceptual frameworks presented in class.
- To discuss the major theories and concepts of political science and its subfields.
- To relate the basics of International Relations and the new trends in the realm of International Relations.

Course Outcomes

- Understood the analysis of the institutions, political behavior and political ideas of another country comparing these attributes to the Indian model.
- Exposed the issues of International and Domestic Politics and Public Policy
- Analyzed contemporary problems in the countries under consideration in light of the conceptual frameworks presented in class.
- Presented the major theories and concepts of political science and its subfields.
- Made aware of the basics of International Relations and the new trends in the realm of international relations.

Department of Economics

Course Objectives and Course Outcomes

Unit – I Nature of Indian Economy

Objective – To introduce the basic Knowledge of the Indian Economy

Outcome -Students learnt about the Knowledge of the Indian Economy.

Unit – II Agriculture

Objective –To explain the importance of the Agriculture Sector the in Indian Economy.

Outcome -Students learnt about the Importance of the Agriculture Sector the in Indian Economy.

Unit – III - Industry

Objective – To explain the Importance and Role of Industries in Economic Development

Outcome -Students learnt about the Knowledge of Industries in the Economic Development.

Unit – IV- Employment and Poverty

Objective- To develop preliminary knowledge of Employment and Poverty

Outcome -Students learnt about the preliminary knowledge of Employment and Poverty.

Department of English

Course Objectives and Course Outcomes

English Literature

Objective: To enable students to analyse literary text.

Outcome: Students showed their ability to analyze literary text.

Objective: To enable students to interpret literary texts.

Outcome: Students showed their ability to interpret the literary text.

Objective: To enable students to understand significant developments in the history of English and Indian literature.

Outcome: Students became aware of significant developments in the history of English and Indian literature

Objective: To enable students to apply theoretical approaches to the critical reading of literary texts.

Outcome: Students tried to apply theoretical approaches to the critical reading of literary texts.

Department of Sociology
Course Objectives and Course Outcomes
Indian Society: The Structural Issues

Unit - I Indian Society, Structure and Inequality

Objective - To know in detail about Indian Society, Structure and Inequality

Outcome - Student understood the concept of Indian Society, Structure and Inequality

Unit - II Family in Contemporary India

Objective - To make the students aware of Family in Contemporary India.

Outcome - Student understood the concept of Family in Contemporary India

Unit - III Tribal Issues and Problems in India

Objective - To make the students aware of Tribal Issues and Problems in India.

Outcome – Students understood the concept of Tribal Issues and Problems in India.

Unit - IV Rural Community in India

Objective - To make the students know in details about Rural Community in India.

Outcome - Student understood the concept of Rural Community in India

Department of History
Course Objectives and Course Outcomes

Modern World (1789-1920)

Course Objectives

- To understand What were the causes and consequences of the French Revolution?
- To study how imperialism came into being.
- To study World War- I - Treaty of Vasai.
- To understand United Nation and its performance.

Course Outcomes

- Understood the French Revolution - the first revolution in the world.
- Studied, what are the reasons for imperialism?.
- Understood World War -I - the Treaty of Vasai.
- Learned about the United Nations and its achievements and Failures.

Department of Marathi
Course Objectives and Course Outcomes
Marathi Literature

Unit I:

- प्रकरण — ६.उद्दिष्ट**—चक्र या कथेतून महाभारतातील द्रौपदी या स्त्रीचे चित्रण विद्यार्थ्यांना माहित करून देणे.
साध्य—महाभारतातील द्रौपदीच्या मनातील गूढ वगुंतागुंतीचे भावनीक प्रसंगाची माहिती विद्यार्थ्यांना प्राप्त झाली.
- प्रकरण — ७.उद्दिष्ट**—पक्षीगान पाठातून पक्ष्यांच्या सौंदर्याचे दर्शन घडविणे..
साध्य—पक्षीगान मधून विविधक्षी, पक्ष्यांची घरटी, त्यांची पिल्ले यांची माहिती व ओळख विद्यार्थ्यांना झाली.
- प्रकरण — ८.उद्दिष्ट**—अन्वरशा फकीर या मुस्लीम व्यक्तीमत्वाची ओळख विद्यार्थ्यांना करून देणे.
साध्य—लहान मुले, स्त्रीया, माणसे व आजुबाजूच्या गावातील जनतेसाठी उपयुक्त असे अन्वरशा फकीराचे व्यक्तिमत्व असल्याचे विद्यार्थ्यांना कळून आले.
- प्रकरण — ९.उद्दिष्ट**— दाभोळकराच्या अंधश्रद्धा निर्मूलनाचे कार्याची माहिती विद्यार्थ्यांना करून देणे.
साध्य—वैज्ञानिक दृष्टिकोण व शास्त्रीय विचार पध्दतीने अंधश्रद्धा निर्मूलन करण्याचे घ्येय दाभोळकरांचे होतेयाची माहिती विद्यार्थ्यांना झाली.
- प्रकरण — १०.उद्दिष्ट**—महिला ग्रामपंचायतीच्या निवडणुकीचे चित्रण विद्यार्थ्यांना सांगणे.
साध्य—ग्रामीण भागातील ग्रामपंचायत मधील निवडणुकीची माहिती व परिस्थितीची जाणीवविद्यार्थ्यांना आली.

Unit II:

- कविता— ६.उद्दिष्ट**—ही निळी पांढरी कवितेतील शरद ऋतूतील दुपारचे वर्णन करून देणे.
साध्य—इंदिरा संतानी केलेलीशरद ऋतूतील उन्हाची माहिती विद्यार्थ्यांना प्राप्त झाली.
- कविता — ७.उद्दिष्ट**—दोन ज्योती यातून कविने वर्णन केलेल्या दोन ज्योतीचा उलघडा करणे .
साध्य—एक दुःखाची ज्योत लाल असते व दुसरी दुःखाची ज्योत काळी असून तीचे दुःख कायम टिकणारे असते याची जाणीव विद्यार्थ्यांना झाली.
- कविता— ८.उद्दिष्ट**—पाऊस कवितेतून स्त्री मनाच्या विविध भावावस्था विद्यार्थ्यांना उलघडून दाखविणे .
साध्य—ग्रेस कवीने रेखाटलेले स्त्री वेदनेचे स्वरूप व स्त्री मनाच्या भावना याविषयीविद्यार्थ्यांना माहिती मिळाली.
- कविता— ९.उद्दिष्ट**—प्रेम कवितेच्या आधारे कविने रेखाटलेले पीडितांचे चित्रण करून जाणीव करून देणे.
साध्य—मानवी समाजरचनेत माणूसपण विसरत चालला असून पीडितांना न्याय मिळत नसल्याची साक्ष विद्यार्थ्यांना पटली.
- कविता— १०.उद्दिष्ट**— टाहारा कवितेतून आदिवासी समाजाला कसा पुढारी हवा याची माहिती विद्यार्थ्यांना देणे.
साध्य—कवितेत वर्णन केलेला आदिवासिंचा पुढारी कविला हवा असल्याची जाणीव विद्यार्थ्यांना झाली.

Unit III:

- प्रकरण — ३.उद्दिष्ट**—ग्रंथपरीक्षण कसे करावे व ग्रंथवाचन करताना कोणते घटक बघावेत याची माहिती विद्यार्थ्यांना करणे.
साध्य—ग्रंथपरीक्षण करताना परिक्षणाची पहीली पायरी ग्रंथवाचन होय त्यानंतर इतर बाबींकडे लक्ष्य द्यावे याची माहिती विद्यार्थ्यांना प्राप्त झाली.
- प्रकरण — ४.उद्दिष्ट**—इंटरनेट आणि मराठी भाषा व साहित्य याची माहिती विद्यार्थ्यांना करून देणे.
साध्य—संगणक संवाद,मराठी संकेतस्थळे, इंटरनेटवरील मराठी दैनिके, व मायबोली या संकेतस्थळावरील लेख, कविता, व इतर मराठी साहित्याची माहिती विद्यार्थ्यांना झाली

Department of Marathi
Course Objectives and Outcomes
Compulsory Marathi

Unit I:

- प्रकरण — ६.उद्दिष्ट**—चक्र या कथेतून महाभारतातील द्रौपदी या स्त्रीचे चित्रण विद्यार्थ्यांना माहित करून देणे.
साध्य—महाभारतातील द्रौपदीच्या मनातील गूढ वगुंतागुंतीचे भावनीक प्रसंगाची माहिती विद्यार्थ्यांना प्राप्त झाली.
- प्रकरण — ७.उद्दिष्ट**—पक्षीगान पाठातून पक्ष्यांच्या सौंदर्याचे दर्शन घडविणे..
साध्य—पक्षीगान मधून विविधक्षी, पक्ष्यांची घरटी, त्यांची पिल्ले यांची माहिती व ओळख विद्यार्थ्यांना झाली.
- प्रकरण — ८.उद्दिष्ट**—अन्वरशा फकीर या मुस्लीम व्यक्तीमत्वाची ओळख विद्यार्थ्यांना करून देणे.

साध्य—लहान मुले, स्त्रीया, माणसे व आजुबाजूच्या गावातील जनतेसाठी उपयुक्त असे अन्वरशा फकीराचे व्यक्तिमत्व असल्याचे विद्यार्थ्यांना कळून आले.

प्रकरण —९.उद्दिष्ट— दाभोळकराच्या अंधश्रद्धा निर्मूलनाचे कार्याची माहिती विद्यार्थ्यांना करून देणे.

साध्य—वैज्ञानिक दृष्टिकोण व शास्त्रीय विचार पध्दतीने अंधश्रद्धा निर्मूलन करण्याचे घ्येय दाभोळकरांचे होते याची माहिती विद्यार्थ्यांना झाली.

प्रकरण —१०.उद्दिष्ट—महिला ग्रामपंचायतीच्या निवडनूकीचे चित्रण विद्यार्थ्यांना सांगणे.

साध्य— ग्रामीण भागातील ग्रामपंचायत मधील निवडनूकीची माहिती व परिस्थितीची जाणीव विद्यार्थ्यांना आली.

Unit II:

कविता— ६.उद्दिष्ट—ही निळी पांढरी कवितेतील शरद ऋतूतील दुपारचे वर्णन करून देणे.

साध्य—इंदिरा संतानी केलेली शरद ऋतूतील उन्हाची माहिती विद्यार्थ्यांना प्राप्त झाली.

कविता —७.उद्दिष्ट—दोन ज्योती यातून कविने वर्णन केलेल्या दोन ज्योतीचा उलघडा करणे .

साध्य—एक दुःखाची ज्योत लाल असते व दुसरी दुःखाची ज्योत काळी असून तीचे दुःख कायम टिकणारे असते याची जाणीव विद्यार्थ्यांना झाली.

कविता— ८.उद्दिष्ट—पाऊस कवितेतून स्त्री मनाच्या विविध भावावस्था विद्यार्थ्यांना उलघडून दाखविणे .

साध्य—ग्रेस कविने रेखाटलेले स्त्री वेदनेचे स्वरूप व स्त्री मनाच्या भावना याविषयी विद्यार्थ्यांना माहिती मिळाली.

कविता— ९.उद्दिष्ट—प्रेम कवितेच्या आधारे कविने रेखाटलेले पीडितांचे चित्रण करून जाणीव करून देणे.

साध्य—मानवी समाजरचनेत माणूसपण विसरत चालला असून पीडितांना न्याय मिळत नसल्याची साक्ष विद्यार्थ्यांना पटली.

कविता— १०.उद्दिष्ट— टाहारा कवितेतून आदिवासी समाजाला कसा पुढारी हवा याची माहिती विद्यार्थ्यांना देणे.

साध्य—कवितेत वर्णन केलेला आदिवासिंचा पुढारी कविला हवा असल्याची जाणीव विद्यार्थ्यांना झाली.

Unit III:

प्रकरण — ३.उद्दिष्ट—ग्रंथपरीक्षण कसे करावे व ग्रंथवाचन करताना कोणते घटक बघावेत याची माहिती विद्यार्थ्यांना करणे.

साध्य—ग्रंथपरीक्षण करताना परीक्षणाची पहीली पायरी ग्रंथवाचन होय त्यानंतर इतर बाबींकडे लक्ष द्यावे याची माहिती विद्यार्थ्यांना प्राप्त झाली.

प्रकरण — ४.उद्दिष्ट—इंटरनेट आणि मराठी भाषा व साहित्य याची माहिती विद्यार्थ्यांना करून देणे.

साध्य— संगणक संवाद, मराठी संकेतस्थळे, इंटरनेटवरील मराठी दैनिके, व मायबोली या संकेतस्थळावरील लेख, कविता, व इतर मराठी साहित्याची माहिती विद्यार्थ्यांना झाली

Department of English Course Objectives and Course Outcomes Compulsory English

Objective: To enable students to read fluently with proper pronunciation and comprehend the prose.

Outcome: Students read fluently with proper pronunciation and comprehended the prose

Objective: to make students enable to understand and enjoy one act play

Outcome: Students understood and enjoyed one-act- play.

Objective: To enable students to understand the poets and their prescribed poetry.

Outcome- Students understood the theme of the poems and had knowledge about the prescribed poets.

Objective: To enable students to have knowledge of applied skills like composing an Email, Curriculum vitae, paragraph with the help of given hints/points.

Outcome: Students had knowledge of applied skills like composing an Email, Curriculum vitae, paragraph with the help of given hints/points.

Objective: To enrich conversational skills of students

Outcome: Conversational skill of students improved.

Department of Political Science Course Objectives and Course Outcomes

Course Objectives

- To understand the difference between scholarly and popular publications in Comparative Politics.
- To understand the issues of International and Domestic Politics and Publicpolicy.
- To analyze contemporary problems in the countries under consideration in light of the conceptual frameworks presented in class.
- To discuss the major theories and concepts of political science and its subfields.
- To relate the basics of International Relations and the new trends in the realm of International Relations.

Course Outcomes

- Understood the analysis of the institutions, political behavior and political ideas of another country comparing these attributes to the Indian model
- Understood the issues of International and Domestic Politics and Public Policy
- Analyzed contemporary problems in the countries under consideration in light of the conceptual frameworks presented in class.
- Presented with the major theories and concepts of political science and its sub fields.
- Made aware of the basics of International Relations and the new trends in the realm of international relations.

Department of Economics Course Objectives and Course Outcomes

Unit -I: Economic Development and Growth

- Objective- To develop the ability to explain the core economic Sector of Economic Development and Growth.
- Outcome – Students learnt and accepted the Knowledge of Economic Development and Growth.

Unit –II: Planning and Policy

- Objective – To introduce the theory of Planning and Policy.
- Outcome - Students learnt the theory of Planning and Policy

Unit -III: Public Finance

- Objective- To develop preliminary knowledge of Public Finance.
- Outcome – Students learnt preliminary knowledge of Public Finance.

Unit –IV: International Trade

- Objective- To explain the theory of International Trade.
- Outcome –Students learnt about the theory of International Trade.

Department of Sociology

Course Objectives and Course Outcomes

Current Social Problems in India

Unit - I Education in Contemporary

Objective - To make the students in detail about Education in Contemporary India.

Outcome - Students understood the concept of Education in Contemporary India.

Unit - II Displacement and Rehabilitation

Objective – To make the students aware of Displacement and Rehabilitation.

Outcome – Students understood the concept of Displacement and Rehabilitation.

Unit - III Intolerance, Riot Crime

Objective - To make students know in detail about Intolerance, Riot Crime.

Outcome - Students understood the concept of Intolerance, Riot Crime.

Unit IV Corruption

Objective - To make students aware of Corruption.

Outcome -Students understood the concept of Corruption.

Department of History

Course Objectives and Course Outcomes

B. A. III (VI –Sem.) Modern World (1920 -1960)

Course Objectives

- To Study what were Russia's five-year plans?
- To understand Hitler - Mussolini's foreign policy.
- To understand the Causes of World War II.
- To study the United Nations the and performance of Suez Canal.

Course Outcomes

- Learned about Russia's Five-Year Plan
- Learned about Hitler - Mussolini's foreign policy in detail.
- Learned the reasons for the Second World War.
- Received information about the United Nations .
- Understood the performance of the Suez Canal, NATO SEATO, Warsaw Pact.

Department of Marathi Course Objectives and Outcomes Marathi Literature

Unit I:

गरूडझेप— भरत आंधळे

उद्दिष्ट— गरूड जेप मधील लेखकानी नोकरीसाठी ध्येयवेडा प्रवास कसा केला याची माहिती देऊन विद्यार्थ्यांना प्रेरित करणे.

साध्य— भरत आंधळेच्या शैक्षणिक प्रगतीचा व स्पर्धा परीक्षेच्या कार्याचा आढावा घेऊन विद्यार्थ्यांनी गरूडजेप आत्मकथनातून पेरणा घेतली.

प्राचीन मराठी वाङ्.मयाचा इतिहास— ल.रा. नशिराबादकर.

उद्दिष्ट— प्राचीन मराठी वाङ्.मयाचा इतिहासाच्या आधार संतसाहित्य, पंडिती साहित्य,शाहिरी साहित्य, बखर वाङ्. मय या साहित्याची माहिती विद्यार्थ्यांना देणे

साध्य— संतसाहित्य, पंडिती साहित्य,शाहिरी साहित्य, बखर वाङ्.मय या साहित्याची माहिती विद्यार्थ्यांना झाली.

भाषाविज्ञानाचा परिचय. डॉ. मालसे, डॉ. कुळकर्णी

उद्दिष्ट— भाषाविज्ञानाचा परिचय विद्यार्थ्यांना करून देणे.

साध्य— मराठी मुळाक्षरे, स्वन व स्वनांतरे यांची माहिती विद्यार्थ्यांना झाली.

Bachelor of Commerce

Semester -I Course Objectives and Course Outcomes Compulsory English

Course Objectives

- To understand the meaning of start-up through the prescribed Life Sketches of Start-up founders.
- To understand financial and business acumen through basic research skillsfor business.
- To understand and value inclusivity in human nature.
- To prioritize the importance of human life and wealth.
- To understand horror stories with elements of surprise and irony.
- To understand expansive and imaginative concepts.
- To understand the meanings of motivation and indomitable spirit.

- To take up tasks and not to worry about the end result for the larger benefit of Human-kind.
- To understand that tranquil temperament is the most potent weapon one can have against diversity.
- To understand grammar and apply it in their writing skills.

Course Outcomes

- Understood the meaning of Start-up through the prescribed Life Sketches of Start-up founders.
- Understood financial and business acumen through basic research skills for business.
- Understood and value inclusivity in human nature.
- Understood prioritize the importance of human life and wealth.
- Understood horror stories with elements of surprise and irony.
- Understood expansive and imaginative concepts .
- Understood the meanings of motivation and indomitable spirit.
- Understood tasks and not to worry about the end result for the larger benefit of Human kind.
- Understood that tranquil temperament is the most potent weapon one can have against diversity.
- Understood grammar and apply it in their writing skills.

Department of Marathi

Course Objectives and Course Outcomes

Course Objectives

- उद्दिष्टे:— 1. मराठी भाषेविषयी विद्यार्थ्यांमध्ये अभिरुची निर्माण करणे.
 2. साहित्यलेखनाची व वाचनाची आवड निर्माण करणे.
 3. विद्यार्थ्यांमध्ये असलेल्या सुप्त कलांगुणांना वाव देऊन त्यांच्यात साहित्यविषयक वृद्धिंगत करणे.
 4. साहित्यातून मानवतावादी दृष्टिकोण रुजविणे.
 5. साहित्यातून समाजातील प्रश्नांना वाचा फोडून त्यांचे निराकरण करणे.

Course Outcomes

- ध्येय:— 1. भावी काळात विद्यार्थ्यांमधून साहित्यनिर्मिती करणे.
 2. अध्यापन व अध्ययनात विद्यार्थ्यांना सहभागी करून संवादशील वातावरण निर्मिती करणे.
 3. विभागात विविध उपक्रमांचे आयोजन करून मराठी भाषेचा दर्जा वाढविणे.
 4. विद्यार्थ्यांमध्ये संशोधनवृत्ती वृद्धिंगत करणे.
 5. मराठी भाषेची प्रयोगशाळा निर्माण करणे.

CO1 भारतीय लोकशाहीचे मूल्य विद्यार्थ्यांमध्ये रुजविणे.

CO2 ग्रामीण जनजिवन व शेतीनिष्ठेशी विद्यार्थ्यांची नाळ जोळणे.

CO3 संताच्या व्यावहारिक विचारांचा परिचय घडविणे.

- CO4 शाहू महाराजाच्या आरक्षण विषयी विचारांचा परिचय घडविणे.
 CO5 काव्यातील रसग्रहणक्षमता विकसीत करणे.
 CO6 विद्यार्थ्यांमध्ये आधुनिक मूल्य रुजविणे
 CO7 विद्यार्थ्यांमध्ये सामाजिक बांधिलकी निर्माण करणे.
 CO8 विद्यार्थ्यांमध्ये सर्जनशीलता निर्माण करणे.

Financial Accounting

Course Objectives and Course Outcomes

Unit No.I - Financial Accounting.

- Objective- To make the students understand Financial Accounting. Meaning, Principles & Problem.
- Outcome -Students understood the following topics. Financial Accounting. Meaning, Objective, Principles & Problem.

Unit No 2- Hire Purchase Account.

- Objective - To make the students understand Hire Purchase Account Meaning, Method & Problems.
- Outcome- Students understood the following topics Hire Purchase Account Meaning, Method & Problems.

Unit No 3- Final Account of Co-Operative Societies.

- Objective - To make the students to understand the Final Account Co-Operative Societies .Introduction, Type, Co-operative Legislation and Problems.
- Outcome- Students understood the following topics Final Account of Co-Operative Societies Introduction, Type, Co-Operative Legislation and Problems

Unit No 4- Join Venture Accounts.

- Objective- To make the students understand Join Venture Accounts Meaning, Method and Problem.
- Outcome - Students understood the following topics Join Venture Accounts Meaning, Method and Problems.

BUSINESS ORGANISATION

Course Objectives and Course Outcomes

Objectives

- To make the students understand the concept, objective, importance of business.
- To acquaint the students with various forms of Business organization and their functioning.
- To make the students understand the concept, functions of Organization and types of Organization.
- To make the students understand the Internal constituents of the Business Organization Key Managerial Personnel, Chairman, Chief executive officer, E-Commerce, E-business and E-banking.

Outcomes

- Students understood the concept, objective and importance of business.

- Acquainted the students with various forms of Business organization and their functioning.
- Understood the concept, functions of Organization and types of Organization.
- Understood Internal constituents of the Business Organization Key managerial Personnel, Chairman, Chief executive officer, E-Commerce, E-business and E-banking.

Company Law

Course Objectives and Course Outcomes

Unit No. 1 - Background of New Company

- Objective - To make the students understand the Background of New Company Act 2013, Corporate Personality & Kinds of Company.
- Outcome - Students understood the following topics. Background of New Company Act 2013, Corporate Personality & Kinds of Company.

Unit No 2- Memorandum of Association, Article of Association and Prospectus.

- Objective - To make the students understand the Memorandum of Association, Article of Association and Prospectus.
- Outcome - Students understood the Memorandum of Association, Article of Association and Prospectus.

Unit No 3- Shares and Share Capital

- Objective- To make the students understand Shares and Share Capital.
- Outcome- Students understood the following topics Shares and Share Capital.

Unit No 4- Membership in a company, Director.

- Objective - To make the students understand Membership in a company, Director.
- Outcome- Students understood the following topics - Membership in a company, Director.

Department of English

Semester-II

Compulsory English

Course Objectives and Course Outcomes

Course Objectives

- To understand the meaning of Start-up through the prescribed Life Sketches of Start-up founders.
- To understand financial and business acumen through basic research skills for business.
- To understand and value inclusivity in human nature.
- To prioritize the importance of human life and wealth.
- To understand horror stories with elements of surprise and irony.
- To understand expansive and imaginative concepts.
- To understand the meanings of motivation and indomitable spirit.

- To take up tasks and not to worry about the end result for the larger benefit of Humankind.
- To understand that tranquil temperament is the most potent weapon one can have against diversity.
- To understand grammar and apply it in their writing skills.

Course Outcomes

- Understood the meaning of Start-up through the prescribed Life Sketches of Start-up founders.
- Understood financial and business acumen through basic research skills for business.
- Understood and valued inclusivity in human nature.
- Understood prioritizing the importance of human life and wealth.
- Understood horror stories with elements of surprise and irony.
- Understood expansive and imaginative concepts.
- Understood the meanings of motivation and indomitable spirit.
- Understood the tasks and not to worry about the end result for the larger benefit of Human kind.
- Understood that tranquil temperament is the most potent weapon one can have against diversity.
- Understood grammar and apply it to their writing skills.

Department of Marathi Course Objectives and Outcomes

- CO1 भारतीय लोकशाहीचे मूल्य विद्यार्थ्यांमध्ये रुजविणे.
 CO2 ग्रामीण जनजिवन व शेतीनिष्ठेशी विद्यार्थ्यांची नाळ जोळणे.
 CO3 संताच्या व्यावहारीक विचारांचा परिचय घडविणे.
 CO4 शाहू महाराजाच्या आरक्षण विषयी विचारांचा परिचय घडविणे.
 CO5 काव्यातील रसग्रहणक्षमता विकसीत करणे.
 CO6 विद्यार्थ्यांमध्ये आधुनिक मूल्य रुजविणे
 CO7 विद्यार्थ्यांमध्ये सामाजिक बांधिलकी निर्माण करणे.
 CO8 विद्यार्थ्यांमध्ये सर्जनशीलता निर्माण करणे.

Statistics and Business Mathematics

Course Objectives and Course Outcomes

Unit No. I - Statistics & Measures of Central Tendency

- Objective - To make the students understand the Background of Statistics & Measures of Central Tendency.
- Outcome - Students understood the following topics. Statistics & Measures of Central Tendency.

Unit No 2- Dispersion.

- Objective - To make the students understand Dispersion.
- Outcome - Students understood the following topics Dispersion.

Unit No 3- Skewness

- Objective - To make the students understand Skewness.
- Outcome - Students understood the following topics Skewness.

Unit No 4- Business Mathematics

- Objective- To make the students understand Business Mathematics.
- Outcome - Students understood the following topics.

BUSINESS MANAGEMENT

Course Objectives and Course Outcomes

Course Objectives

- To make the students understand the Meaning, types of management, Principles, function of Business Management.
- To make the students know about Planning and Decision Making.
- To make the students know about Delegation of Authority and coordination & Controlling.
- To expose the students for the applicability of recent trends in management practices.
- To make students familiar with the modern management practices being used by the corporate world.

Course Outcomes

- Understood the Meaning, types of management, Principles, and function of Business Management.
- Knew about Planning and Decision Making.
- Students knew about Delegation of Authority and coordination & Controlling.
- Exposed the students for the applicability of recent trends in management practices.
- Understood and became familiar with the modern management practices being used by the corporate world.

Secretarial Practice

Course Objectives and Course Outcomes

Unit No. I - Incorporation of Company

- Objective - To make the students understand the Incorporation of Company, Directors of Company.
- Outcome - Students understood the following topics Incorporation of Company, Directors of Company.

Unit No 2- Company Meeting, Company Agenda & Voting and Resolution.

- Objective - To make the students understand the Company Meeting, Company Agenda & Voting and Resolution.
- Outcome- Understood the Company Meeting, Company Agenda & Voting and Resolution.

Unit No 3- Report Writings, Secretarial audit & E-Governance and E-Filing

- Objective - To make the students understand Report Writings, Secretarial Audit & E-Governance and E-Filing.
- Outcome - Students get well understood the following topics Report Writings, Secretarial audit & E-Governance and E-Filing.

Unit No 4- Key Management Personnel, Appointment of Director & Management Remuneration.

- Objective - To Make the students understand Key Management Personnel, Appointment of Director & Management Remuneration.
- Outcome - Students understood the following topics Key Management Personnel, Appointment of Director & Management Remuneration.

Business Economics II

Course Objectives and Course Outcomes

Unit I-

Market Structure

Objective- To make the students understand the Market structure.

Outcome- Students understood the Market Structure.

Unit II-

Perfect & Imperfect Competition Markets

Objective- Students should become aware of Perfect & Imperfect Competition.

Outcome- Students understood Perfect & Imperfect Competition.

Unit III-

Theories of Distribution

Objective- Students should become aware of the Theory of Distribution.

Outcome- Students understood & they applied their knowledge.

Unit IV-

Business cycles & National Income

Objective- Students should become aware of Business cycles & National Income.

Outcome- Students understood Business cycles & National Income.

Compulsory English
Semester-III
Course Objectives and Course Outcomes

Course Objectives

- To understand the meaning of Start-up through the prescribed Life Sketches of Start-up founders.
- To understand financial and business acumen through basic research skills for business.
- To understand and value inclusivity in human nature.
- To prioritize the importance of human life and wealth.
- To understand horror stories with elements of surprise and irony.
- To understand expansive and imaginative concepts.
- To understand the meanings of motivation and indomitable spirit.
- To take up tasks and not to worry about the end result for the larger benefit of Human kind.
- To understand that tranquil temperament is the most potent weapon one can have against diversity.
- To understand grammar and apply it in their writing skills.

Course Outcomes

- Understood the meaning of Start-up through the prescribed Life Sketches of Start-up founders.
- Understood financial and business acumen through basic research skills for business.
- Understood and valued inclusivity in human nature.
- Understood prioritizing the importance of human life and wealth.
- Understood horror stories with elements of surprise and irony.
- Understood expansive and imaginative concepts.
- Understood the meanings of motivation and indomitable spirit.
- Understood tasks and not to worry about the end result for the larger benefit of Humankind.
- Understood that tranquil temperament is the most potent weapon one can have against diversity.
- Understood grammar and apply it in their writing skills.

**Department of Marathi
Semester III**

Course Objectives and Outcomes

- C01 मातृभाषेची आवड व जाणीव निर्माण करणे
C02 प्राचिन मराठीचे वैशिष्ट्ये स्पष्ट करणे.
C03 विनोदी लेखनात खेळकरवृत्तीचे दर्शन घडविणे.
C04 संत साहित्यातून सामाजिक, सांस्कृतिक, आध्यात्मिक लोकशाहीचा पुरस्कार करणे.
C05 स्त्री विषयक जाणिव जागृती करणे.
C06 वृत्त लेखन व कल्पना विस्तार तंत्राची माहिती अवगत करणे.

**Financial Accounting II
Semester III**

Unit I-

Consignment Accounts

Objective- Students should become aware of the topic of Consignment Accounts.

Outcome- Students understood & Solve the Problems.

Unit II-

Branch Accounts

Objective- Students should become aware of topic of Branch Accounts.

Outcomes- Students understood & solve the Problems.

Unit III-

Capital Structure & Issues of Shares

Objective- Students should become a ware of topic of Capital Structure & Issues of Shares.

Outcome- Student understood & solved the Problems of Issues of Shares.

Unit IV-

Final Accounts of Joint Stock Companies

Objective- Students should become aware of the topic of Final Accounts of Joint Stock Company.

Outcome- Student understood & solved the problems.

Business Communication & Management

Course Objectives and Course Outcomes

Unit No. I - Meaning, Definition and concept of Communication, objective of Communication

Objective - To make the students understand the Meaning, Definition and concept of Communication, objective of Communication

Outcome - The students understood the Meaning, Definition and concept of Communication, the objective of Communication

Unit No 2- Business Communication.

Objective - To make the students understand the Business Communication.

Outcome- The students understood Business Communication.

Unit No 3- Technology and Business Communication

Objective - To make the students understand Technology and Business Communication.

Outcome- Students understood the following topics;

Technology and Business Communication.

Unit No 4- M.S. Office Aided Communication.

Objective - To make the students understand M.S. Office-Aided Communication.

Outcome - Students understood the following topics;

M.S. Office Aided Communication.

Business Law

Course Objectives and Course Outcomes

Course Objectives

- Students will be able to understand various provisions of the related Acts the course gives the knowledge regarding The Indian Contract Act, 1872, The Sales of Goods Act, 1930, The Indian partnership Act 1932, Negotiable Instruments Act 1881.
- To make the students gain knowledge of various legal aspects of the business.
- To make the students understand laws that affect mercantile transactions.
- Students will be able to understand court interpretations of laws like, Prevention of Money Laundering Act-2002, Consumer Protection Act – 2002

Course Outcomes

- Student understood various provisions of the related Acts the course gives the knowledge regarding The Indian Contract Act, 1872, The Sales of Goods Act, 1930, The Indian partnership Act 1932, Negotiable Instruments Act 1881.
- Students gained knowledge of various legal aspects of the business.
- Students understood laws that affect mercantile transactions.
- Students understood court interpretations of laws like, the Prevention of Money Laundering Act-2002, Consumer Protection Act – 2002

Monetary Economics-I

Course Objectives and Course Outcomes

Unit I-

Money

Objective- To make the students understand the concept of The evolution of Money & Functions of Money.

Outcome-Students understood the concept of the Evolution of Money & Functions of Money.

Unit II-

Inflation & Deflation

Objective- To make the students understand the concept of inflation and deflation.

Outcome-Students developed their knowledge about inflation and deflation.

Unit III-

Money Market & Policies

Objective- To make the students understand the concept of the Money Market and Monetary Policy.

Outcome-Students understood & they applied their knowledge.

Unit IV-

Public Finance

Objective- To make the students understand the concept of Public Finance.

Outcome-Students applied & developed the knowledge.

Compulsory English Semester-IV

Course Objectives and Course Outcomes

Course Objectives

- To understand and value inclusivity in human nature.
- To prioritize the importance of human life and wealth.
- To understand horror stories with elements of surprise and irony.
- To understand expansive and imaginative concepts.
- To understand the meanings of motivation and indomitable spirit.

- To take up tasks and not to worry about the end result for the larger benefit of Humankind.
- To understand grammar and apply it in their writing skills.

Course Outcomes

- Understood and valued inclusivity in human nature.
- Understood prioritizing the importance of human life and wealth.
- Understood horror stories with elements of surprise and irony.
- Understood expansive and imaginative concepts.
- Understood the meanings of motivation and indomitable spirit.
- Understood tasks and not to worry about the end result for the larger benefit of Humankind.
- Understood grammar and apply it to their writing skills.

Department of Marathi Course Objectives and Outcomes

- CO1 मातृभाषेची आवड व जाणीव निर्माण करणे
 CO2 प्राचिन मराठीचे वैशिष्ट्य स्पष्ट करणे.
 CO3 विनोदी लेखनात खेळकरवृत्तीचे दर्शन घडविणे.
 CO4 संत साहित्यातून सामाजिक, सांस्कृतिक, आध्यात्मिक लोकशाहीचा पुरस्कार करणे.
 CO5 स्त्री विषयक जाणिव जागृती करणे.
 CO6 वृत्त लेखन व कल्पना विस्तार तंत्राची माहिती अवगत करणे.

Financial Accounting III Course Objectives and Outcomes

Unit I-

Final Accounts of Banking Companies

Objective- Students should become aware of the topic of Final Accounts of Banking Companies.

Outcome- Students understood and solved the Problems.

Unit II-

Final Accounts of General Insurance Companies

Objective- Students should become aware of the topic of Final Accounts of General Insurance Companies.

Outcome- Student understood and solved the Problems.

Unit III-

Valuation of Goodwill

Objective- Students should become aware of the topic of the Valuation of Goodwill.

Outcome- Student understood and solved the Problems.

Unit IV-

Liquidation of Company

Objective- Students should become aware of the topic of the Liquidation of Company.

Outcome- Student understood & solved the Problems.

Skill Development

Course Objectives and Course Outcomes

Unit No. I - Introduction- Basic Personality, Human Growth and Behavior and Motivation.

- Objective - To make the students understand the Introduction- Basic Personality, Human Growth and Behavior and Motivation.
- Outcome - The students understood the Introduction- Basic Personality, Human Growth and Behavior and Motivation.

Unit No 2- Communication Skill and Personality Development.

- Objective - To make the students understand Communication Skills and Personality Development.
- Outcome - The students understood the Communication Skills and Personality Development.

Unit No 3- Techniques in Personality Development.

- Objective - To make the students understand Techniques in Personality Development.
- Outcome - Students understood the following topics Techniques in Personality Development.

Unit No 4- Entrepreneurial Skill Development.

- Objective - To make the students understand Entrepreneurial Skill Development.
- Outcome- Students understood Entrepreneurial Skill Development.

Income Tax

Course Objectives and Course Outcomes

Course Objectives

- To make the students understand the basic concepts involved in the Income Tax act and the basics of income tax.
- To make the students understand the Taxable Salary and tax liability.
- Students get exposure to provisions of taxation of house property.
- To make the students understand Income Tax Slab Rates. They know how to deduct under section 80C, 80 CCC, 80CCD, 80D, 80DDB, 80E,80G, 80GG and 80U. Students get exposure to provisions of taxation of Income from other sources.
- They learn the procedure of filing tax returns, Advance tax and tax refunds.

Course Outcomes

- Understood the basic concepts involved in Income Tax act and also the basics of income tax.

- Understood the Taxable Salary and tax liability.
- Students got exposure to provisions of taxation of house property.
- Understood Income Tax Slab Rates. They know how to deduct under section 80C, 80 CCC, 80CCD, 80D, 80DDB, 80E,80G, 80GG and 80U. Students get exposure to provisions of taxation of Income from other sources. They learn the procedure of filing tax returns, Advance tax and tax refunds

Monetary Economics-II

Course Objectives and Course Outcomes

Unit I-

Commercial Bank

Objective-To make the students understand the functions of Commercial Bank.

Outcome-Students understood the functions of Commercial Bank.

Unit II-

E-Banking and Core Banking

Objective- To make the students understand -Banking and Core Banking.

Outcome-Students developed their knowledge.

Unit III-

Banks and Customers Relationship and Service

Objective- To make the students understand the Banks Customers Relationship and Service.

Outcome-Students understood & applied their knowledge.

Unit IV-

Central Bank

Objective- To make the students to understand the Central Bank.

Outcome-Students developed the knowledge about Central Bank.

Financial Accounting-IV

Semester-V

Course Objectives and Course Outcomes

Unit No.I - Amalgamations & Absorption of Companies.

Objective - To make the students understand Amalgamations & Absorption.

Outcome - Students understood the topics like Amalgamations & Absorption.

Unit No 2- Reorganization & reconstruction of Companies.

Objective - To make the students understand the Reorganization & reconstruction problem.

Outcome - Students understood the concepts of the Reorganization & reconstruction problems.

Unit No 3- Valuation of Shares

Objective - To make the students understand Valuation of Shares Problems.

Outcome- Students understood the Valuation of Shares Problems.

Unit No 4- Double Account system

Objective - To make the students understand Double Account system.

Outcome - Students understood the Double Account system.

Management Process Course Objectives and Course Outcomes

Unit I-

Management and Administration

Objective- To make the students understand meaning and difference of Management and Administration.

Outcome-Students applied the knowledge of Management and Administration.

Unit II-

Managerial Development & Group Dynamics

Objective- To make the students to understand the Managerial Development & Group Dynamics

Outcome-Students understood the knowledge of Managerial Development & Group Dynamics.

Unit III-

Managerial Style

Objective- To make the students understand the Managerial Style.

Outcome-Students developed the knowledge of Managerial Style.

Unit IV-

Motivation:

Objective- To make the students understand the Motivation.

Outcome- Students understood the meaning of Motivation and their types.

Indian Economics –I

Course Objectives and Course Outcomes

Unit I-

Indian Economy & Planning

Objective- To make the students understand the Indian Economy & Planning.

Outcome-Students understood the Indian Economy & Planning.

Unit II-

Indian Economy & Policy

Objective- To make the students understand the Indian Economy & Policy.

Outcome-Students understood the concept of the Indian Economy & its Policy.

Unit III-

Population & Unemployment

Objective- To make the students understand the Population & Unemployment.

Outcome-Students understood & created the knowledge.

Unit IV-

India's Public Finance

Objective- To make the students understand the India's Public Finance.

Outcome- Students developed the knowledge of India's Public Finance.

Computerize Accounting Course Objectives and Course Outcomes

Objective - To make the students understand Introduction of Computerize Accounting, Advantage, Need and Accounting Groups.

Outcome - Students understood the following topics;
Introduction of Computerize Accounting, Advantage, Need and Accounting Groups.

Unit No 2- Accounting Software's.

Objective - To make the students understand Accounting Software.

Outcome - Students understood the topic- Accounting Software.

Unit No 3- Accounts Info Menu, Accounts Groups.

Objective - To make the students understand the Accounts Info Menu, Accounts Groups-

Create Group, Ledger Accounts, Voucher & Features of Account Voucher.

Outcome - Students understood the following topics-

Accounts Info Menu, Accounts Groups-

Create Group, Ledger Accounts, Voucher & Features of Account Voucher.

Unit No 4- Inventory Info, Features of Inventory Info. Configure.

Objective - To make the students understand the Inventory Info, Features of the Inventory

Info. Configure.

Outcome - Students understood the following topics-

Inventory Info, Features of Inventory Info. Configure.

Auditing Course Objectives and Course Outcomes

Course Objectives

- To make the Students learn a lot about the basics of audit and auditing, internal and external check, periodic audits, internal audit external audit , continuous audit, , cost audit, management audit and annual audit.
- To make the Students learn the Audit Planning and Audit Documentation and Evidence.
- To make the students understand standard on Auditing, Vouching & Verification Vouching, Verification of Assets and Liabilities.
- A glimpse into company audit gives an idea of appointing a company auditor, and the Procedure of audit in a company etc. along with the rules of company and corporate audit.

Course Outcomes

- Students learnt a lot about basics of audit and auditing, internal and external check, periodic audit, internal audit external audit , continuous audit, , cost audit, management audit and annual audit.

- Students learnt Audit Planning and Audit Documentation and Evidence.
- Students understood the standard on Auditing, Vouching & Verification Vouching, Verification of Assets and Liabilities.
- A glimpse into company audit gave an idea of appointing a company auditor, and the Procedure of audit in a company etc.along with the rules of the company and corporate audit.

Financial Accounting-V Semester-VI

Course Objectives and Course Outcomes

Unit No.I - Accounting of Holding Company.

- Objective - To make the students understand Accounting of Holding Company
- Outcome - Students understood the following topics Accounting of Holding Company.

Unit No. 2 - Insurance Claims.

- Objective - To make the students understand the Insurance Claims.
- Outcome - Students understood the following topics Insurance Claims.

Unit No. 3 - Investment Accounts.

- Objective - To make the students understand Investment Accounts.
- Outcome - Students understood the topic- Investment Accounts.

Unit No. 4 - Profit Prior to Incorporation.

- Objective - To make the students understand the Profit Prior to Incorporation.
- Outcome - Students understood the topic- Profit Prior to Incorporation.

Management Accounting

Course Objectives and Course Outcomes

Course Objectives

- To make the students get a clear idea about the concept, objectives, importance and benefits of management accounting along with the basic advantages and significance of various techniques of management accounting and Break-Even Poing Analysis.
- A good idea of preparing various budgets like cash budget, flexible budgets and capital budgets help in drafting budget and budget control measures in organizations.
- Students get a clear idea of Ratio Analysis like- Computation of Profitability Ratio, Financial Ratio with special reference to Current Ratio, Classification of Ratio, Liquid Ratio, Inventory Turnover Ratio, Debtors and Creditors Turnover Ratio, Debt-Equity Ratio, Working Capital Ratio, Earnings per Share Ratio.
- To make the students understand and get a clear idea of the Fund Flow Statement.

Course Outcomes

- Student got a clear idea about the concept, objectives, importance and benefits of management accounting along with the basic advantages and significance of various techniques of management accounting and Break-Even Poing Analysis.
- Understood good ideas of preparing various budgets like cash budget, flexible budgets and capital budgets help in drafting budget and budget control measures in organizations.

- Students understood clear idea of Ratio Analysis like- Computation of Profitability Ratio, Financial Ratio with special reference to Current Ratio, Classification of Ratio, Liquid Ratio, Inventory Turnover Ratio, Debtors and Creditors Turnover Ratio, Debt-Equity Ratio, Working Capital Ratio, Earnings per share Ratio.
- Understood and got clear idea of Fund Flow Statement

Advanced Statistics

Course Objectives and Course Outcomes

Objective - To make the students understand the Accounting of Correlation

Outcome - Students understood the following topics. Correlation Company

Unit No. 2 - Regression.

Objective- To make the students understand Regression.

Outcome - Students understood the Regression.

Unit No. 3 - Index Number.

Objective - To make the students to understand Index Number.

Outcome - Students understood the following topics Index Number.

Unit No. 4 - Time Series Analysis.

Objective - To make the students understand Time Series Analysis.

Outcome- Students understood the Time Series Analysis.

Indian Economics –II

Course Objectives and Course Outcomes

Unit I

Indian Agriculture

Objective- To make the students understand the Indian Agriculture.

Outcome- Students applied the knowledge.

Unit II

Indian Industry

Objective- To make the students understand the Indian Industry.

Outcome- Students created the knowledge.

Unit III

India's Service Sector and International Trade

Objective- To make the students understand the India's International Trade.

Outcome- Students developed the knowledge.

Unit IV

Contribution of Indian Economic Thinkers

Objective- To make the students understand the contribution of Indian Economic Thinkers (Mahatma Gandhi, Pandit Dindayal Upadhyaya, Dr. B. R. Ambedkar, Dr. Ram Manohar Lohiya.)

Outcome-Students understood the contribution of Indian Economic Thinkers (Mahatma Gandhi, Pandit Dindayal Upadhyaya, Dr. B. R. Ambedkar, Dr. Ram Manohar Lohiya.)

Human Resource Management

Course Objectives and Course Outcomes

Unit I-

Introduction

Objective- To make the students understand the concept of Human Resources Management & Human Resource Manager.

Outcome-Students understood the concept of Human Resources Management & Human Resource Manager.

Unit II-

Recruitment, selection and training

Objective- To make the students understand the Recruitment, selection and training

Outcome-Students understood the Recruitment, selection and training

Unit III-

Labor welfare and collective bargaining

Objective- To make the students to understand the Labor welfare and collective bargaining.

Outcome-Students understood the Labor welfare and collective bargaining.

Unit IV-

Human Resource Planning and Accounting

Objective- To make the students understand the Human Resource Planning and Accounting.

Outcome-Students understood Human Resource Planning and Accounting.

Industrial Law

Course Objectives and Course Outcomes

Course Objectives

- To make the students to understand The Indian Factories Act, 1948 and The Industrial Disputes Act, 1947.
- Learners learn Laws Relating to Wages, Laws Relating to Bonus and Gratuity, Laws Relating to Employee's State Insurance and Provident Fund and Laws Relating to Workmen Compensation and Maternity Benefits.
- To make the students to understand Child Labour Act, 1986, Trade Union Act, 1926, International Labour Organisation – ILO and Contract Labour Act, 1971.
- Students will be able to understand the meaning and nature of Industrial Estate, Technology Park, SEZ and Co-operative Industrial Estate.
- Learners learn Intellectual Property Rights Law in India and Environment Protection Act, 1986.

Course Outcomes

- Understood The Indian Factories Act, 1948 and The Industrial Disputes Act, 1947.
- Learned Laws Relating to Wages, Laws Relating to Bonus and Gratuity, Laws Relating to Employee's State Insurance and Provident Fund and Laws Relating to Workmen Compensation and Maternity Benefits.
- Understood Child Labour Act, 1986, Trade Union Act, 1926, International Labour Organisation – ILO and Contract Labour Act, 1971.
- Understood the meaning and nature of Industrial Estate, Technology Park, SEZ and Co-operative Industrial Estate.
- Learners learnt Intellectual Property Rights Law in India and Environment Protection Act, 1986.

Bachelor of Science (B.Sc.)

Semester-I

Department of English

Compulsory English

Course Objectives and Course Outcomes

Unit I: Objective-Making students' conscious about the functioning of Democracy.

Outcome-Students tried to understand the importance of democracy.

Unit II: Objective- Making students understand slavery and its effects.

Outcome-Students tried to understand the effects of slavery and its punishing practice.

Unit III: Objective-to make students understand correct usage of Tense, Transformation of sentences and Common errors.

Outcome-Students tried to solve the examples of Tense, Transformation of sentences and Common errors.

Unit IV: Objective-To create the ability of writing Curriculum Vitae.

Outcome-Students attempted to write the Curriculum Vitae.

Unit I: Objective-Making students conscious of slavery, education, and compassion.

Outcome-Students understood the issues related with slavery, education and struggle in life.

Unit II: Objective- Making students understand about Self- reliance, Indian Freedom and words of wisdom.

Outcome- students understood about Self- reliance, Indian Freedom and words of Wisdom.

Unit III: Objective-To make students understand the value of struggle, Kindness and honesty.

Outcome- students understood the value of struggle, Kindness and honesty.

Unit IV: Objective-To create the ability of writing and comprehension.

Outcome-Students attempted to write and comprehend the passage.

Department of Marathi
Course Objectives and Outcomes

Course Objectives

- उद्दिष्टे:- १. मराठी भाषेविषयी विद्यार्थ्यांमध्ये अभिरुची निर्माण करणे.
२. साहित्यलेखनाची व वाचनाची आवड निर्माण करणे.
 ३. विद्यार्थ्यांमध्ये असलेल्या सुप्त कलांगुणांना वाव देऊन त्यांच्यात साहित्यविषयक वृद्धिंगत करणे.
 ४. साहित्यातून मानवतावादी दृष्टिकोण रुजविणे.
 ५. साहित्यातून समाजातील प्रश्नांना वाचा फोडून त्यांचे निराकरण करणे.

- ध्येय:- १. भाषा कालात विद्यार्थ्यांमधून साहित्यनिर्मिती करणे.
२. अध्यापन व अध्ययनात विद्यार्थ्यांना सहभागी करून संवादशील वातावरण निर्मिती करणे.
 ३. विभागात विविध उपक्रमांचे आयोजन करून मराठी भाषेचा दर्जा वाढविणे.
 ४. विद्यार्थ्यांमध्ये संशोधनवृत्ती वृद्धिंगत करणे.
 ५. मराठी भाषेची प्रयोगशाळा निर्माण करणे.

Course Outcomes

साहित्य सेतू

- CO1 विद्यार्थ्यांमध्ये साहित्य विषयक आवड निर्माण करणे
- CO2 वाचन संस्कृतीचा पुरस्कार करणे
- CO3 भारतीय संविधानाचे महत्त्व समजावून सांगणे
- CO4 मानवी मुल्यांची जपणूक करणे
- CO5 कविता लेखनाचे तंत्र अवगत करणे
- CO6 पर्यावरण विषयक जागृती निर्माण करणे
- CO7 व्यावहारिक मराठीचे महत्त्व समजावून सांगणे

Department of Chemistry
Programme Educational Objectives (PEOS)

PEO1: Graduates will pursue higher studies in related fields including management

PEO2: Graduates will perform as employee in private/government institutions rising up to top positions

PEO3: Graduates will become entrepreneurs.

PEO4: Graduates will prepare for various competitive examinations.

Programme Specific Outcomes (PSOS)

PSO-1: Gain the knowledge of Chemistry through theory and practical.

PSO-2: To explain nomenclature, stereochemistry, structures, reactivity, and mechanism of the chemical reactions.

PSO-3: Identify chemical formulae and solve numerical problems.

PSO-4: Use modern chemical tools, Models, Chem-draw, Charts and Equipment's.

PSO-5: Know structure-activity relationship

PSO-6: Understand good laboratory practices and safety.

PSO- 7: Make aware and handle the sophisticated instruments/equipment.

PSO-8: Develop research-oriented skills.

PSO-9: Study and understand the different techniques used in purification of compounds

Programme Outcomes (POs)

- The students are expected to understand the fundamentals, principles, and recent developments in the subject area.
- It is expected to inspire and boost interest of the students towards chemistry as the main subject.
- To impart practical skills and learn basics behind experiments
- To prepare background for advanced and applied studies in chemistry.
- To inculcate the scientific temperament in the students and outside the scientific community.
- To inculcate the scientific temperament in the students and outside the scientific community.
- Use modern techniques, decent equipment and Chemistry software

Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: First/First

Subject: Chemistry

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
FY Paper-I Inorganic Chemistry (101)	101.1	<ul style="list-style-type: none">• To understand the basic structure of atom.• Understand shape of orbitals.• Understand periodic properties such as atomic and ionic radii, ionization energy, electron affinity etc.
	101.2	<ul style="list-style-type: none">• To understand the concept of covalent bond.• To understand the bond parameters and various types of types of hybridization.• To understand the ionic structures with respect to NaCl and CsCl.
	101.3	<ul style="list-style-type: none">• Understand s block element and their properties such as electronic

		<p>configuration, atomic and ionic radii, I.P. etc.</p> <ul style="list-style-type: none"> Understand chemical properties of the noble gases, preparation, structures, bonding and applications.
	101.4	<ul style="list-style-type: none"> To understand the P block element. Comparative study of groups 15,16, 17 with respective their properties. Understand the Hydrides, Oxides, Peroxyacids, Hydrides.
FY Paper-II Physical Chemistry (102)	102.1	<ul style="list-style-type: none"> Understand the common thermodynamics terms. Types of systems and varies thermodynamics processes. State and path functions and their differentiation. Understand the first law of thermodynamics.
	102.2	<ul style="list-style-type: none"> Understand gas equation and laws. Understand qualitative discussion of the Maxwell-Boltzmann distribution. Understand ideal gas and real gases behaviors.
	102.3	<ul style="list-style-type: none"> Understand the Intermolecular forces, structure of liquid, structural difference between solid, liquid and gases. Properties of liquid like surface tension, viscosity, refractive index.
	102.4	<ul style="list-style-type: none"> Understand the concept of different types of surface phenomenon and catalytic property, like Adsorption mechanism of adsorption, factor affecting adsorption. Difference between adsorption and absorption, etc. Understand types of catalysis and enzymes.
F.Y. Chemistry Practical Course	103	<ul style="list-style-type: none"> Verify theoretical principles experimentally Interpret the experimental data Improve analytical skills Correlate the theory and experiments and understand their importance

Department of Physics

Programme Educational Objectives (PEOS)

- **PEO1:** Graduates will pursue higher studies in related fields including management
- **PEO2:** Graduates will perform as employee in private/government institutions rising up to top positions
- **PEO3:** Graduates will become entrepreneurs.
- **PEO4:** Graduates will prepare for various competitive examinations.

Programme Specific Objectives (PSOS)

- **PSO-1:** Gain the knowledge of Physics through theory and experiments.
- **PSO-2:** Understand good laboratory practices and safety.
- **PSO-3:** Develop research-oriented skills.
- **PSO-4:** Make aware and handle the sophisticated instruments/equipments.

Programme Outcomes (POs)

- Bachelor of Science offers theoretical as well as practical knowledge about different subject areas.
- This course forms the basis of science for coherent understanding of the academic field to pursue multi and interdisciplinary science careers in future. These subject areas include Physics, Chemistry, Mathematics and Botany and Zoology.
- Able to plan and execute experiments or investigations, analyze and interpret data information collected using appropriate methods
- It helps to develop scientific temper and thus can prove to be more beneficial for the society as the scientific developments can make a nation or society to grow at a rapid pace through research.
- Think critically; follow innovations and developments in science and technology.

Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: First/First

Subject: Physics

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
Paper 1: Properties of	101.1	<ul style="list-style-type: none">• Understand the mechanical behavior of the material and the fundamental terminology like Stress, Strain, Poisson's

Matter and Mechanics (101)		ratio, Hooks law, bending moment and modulus of elasticity
	101.2	<ul style="list-style-type: none"> Understand the concept of viscosity. Apply Poiseuille's Equation, Bernoulli's Theorem, Stoke's law and the concept of terminal velocity.
	101.3	<ul style="list-style-type: none"> Understand the concept of surface tension and surface energy, Newton's laws of motion and to resolve the components of velocity and acceleration in different coordinate system.
	101.4	<ul style="list-style-type: none"> Understand the System of particles and conservation laws.
Paper 2: Electrostatics, Time varying fields & Electric Currents (102)	102.1	<ul style="list-style-type: none"> Understand the concept of Electrostatic force, Electric field, Electric potential, Electric dipole, Electric dipole moment.
	102.2	<ul style="list-style-type: none"> Understand the concept of polarization and capacitors with and without dielectric. Apply Gauss law to parallel plate capacitor.
	102.3	<ul style="list-style-type: none"> To understand the concept of electromagnetic induction and transformer. Apply equation of continuity and Kirchhoff's law to rise and decay of current in LR, CR and LCR circuits.
	102.4	<ul style="list-style-type: none"> To apply complex number in solving an a.c. circuit. Apply j- operator in LR, CR and LCR circuit. Understand the concept of Resonance Calculate I, Z, Φ and fr.
Physics Practical (103)	103	<ul style="list-style-type: none"> Apply and demonstrate the theoretical concepts of Physics and to develop scientific attitude. Interpret the experimental data

Department of Mathematics

Programme Educational Objectives (PEOs): B.Sc. (Mathematics)

1.	Graduates will pursue higher studies in related fields including management
2.	To prepare necessary knowledge base for research and development in Mathematics
3.	To help student's build-up a successful career in Mathematics

Programme Specific Outcomes (PSO): B.Sc. (Mathematics)

1.	Enhance students' ability to develop mathematical models
2.	Develop research-oriented skills.
3.	Nurture problem solving skills, thinking, and creativity through assignments, project Work.
4.	Prepare for various competitive exams

Programme Outcomes (POs): B.Sc. (Mathematics)

1.	Understand and solving of major concepts in all disciplines of mathematics.
2.	Solve the problem and also think methodically, independently and draw a logical conclusion.
3.	To inculcate the scientific temperament in the students and outside the scientific community.
4.	Create an awareness of the impact of mathematics on society and development outside the scientific community.
5.	Gain experience investigating the real-world problems and learn to how to apply Mathematical ideas and models to those problems.
6.	Understand and able to use mathematical formulae in another subject.

COURSE OUTCOMES (COs)

Course Name: B. Sc.

Year/Semester: First/First

Subject: Mathematics

After successful completion of three-year degree programme in **Mathematics** students should be able to;

Paper	CO	Outcomes
FY Paper-I Algebra and Trigonometry 101	101.1	Understand the basic concept related to Matrices and solve the problem based on a system of Linear equations
	101.2	Understand the general properties of equations and Solutions of Different equations
	101.3	Understand the basics of complex numbers and solve the problems
	101.4	understand Group theory and general properties
FY Paper-II 102 Calculus	102.1	Using Definition, verify the values of limit and continuity and solve the problem on Differentiation
	102.2	Understand the concept of Maclaurins and Taylor's theorem Identify Indeterminate forms and application of L'Hospitals Rule
	102.3	Understand the concept of partial differential equation, Eulers Theorem and Jacobians
	102.4	Identify the various types and methods to solve Integration and application of Reduction Formulae

Department of Zoology

PROGRAMME EDUCATIONAL OBJECTIVES (PEOs):

1.	Graduates will pursue higher studies in related fields including management
2.	Graduates will perform as employers in private/government institutions rising up to top positions

3.	Graduates will become entrepreneurs.
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PROGRAMME OUTCOMES (PO)

1.	The students are expected to understand the fundamentals, principles, and recent developments in the subject area.
2.	It is expected to inspire and boost interest of the students towards zoology as the main subject.
3.	To impart practical skills and learn basics behind experiments.
4.	To prepare background for advanced and applied studies in zoology.
5.	To inculcate the scientific temperament in the students and outside the scientific community.
6.	To inculcate the scientific temperament in the students and outside the scientific community.
7.	Use modern techniques, decent equipments and Zoology softwares.

PROGRAMME SPECIFIC OUTCOMES

1.	Gain the knowledge of Zoology through theory and practicals.
2.	Use modern biological tools, Models, Charts and Equipment's.
3.	Know structure-activity relationship.
4.	Understand good laboratory practices and safety.
5.	Make aware and handle the sophisticated instruments/equipment.
6.	Develop research-oriented skills.
7.	Study and understand the different technique used in purification of compounds

COURSE OUTCOMES (COs)

Course Name: B. Sc.

Year/Semester: First/First

Subject: Zoology

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
FY Paper-I Life and Diversity of Animals – Non- chordates (Protozoa to Annelida) (101)	101.1	To understand general characters and classification up to classes of protozoa, structure and reproduction of <i>Paramoecium</i> , structure and life cycle of <i>Plasmodium</i> , parasitic Protozoans of Man (<i>Entamoeba</i> , <i>Trypanosoma</i> , <i>Giardia</i> and <i>Leishmania</i>). Mode of infection and its control.
	101.2	To understand the general characters and classification up to classes of porifera, Structure, reproduction and development, Canal system in sponges, General characters and classification up to classes of Coelenterata, structure and life cycle of <i>Obelia</i> , Polymorphism in hydrozoa.
	101.3	To Understand the Helminthes: General characters and classification up to classes, <i>Ascaris</i> : External morphology, reproductive system and life cycle, <i>Taenia solium</i> : Structure

		and life cycle, Elementary idea of parasitic adaptations in helminthes
	101.4	To Understand the Annelida : General characters and classification up to classes, Leech : Morphology, digestive and urinogenital system, Trochophore larva and its significance, Vermiculture and its importance
FY Paper-II Environmental Biology (102)	102.1	To understand the Atmosphere: Major zones and its importance, composition of air, Hydrosphere: Global distribution of water, Physico-chemical characteristics of water, Lithosphere: Types of rocks, formation of soil, Renewable and non- renewable energy sources
	102.2	Understand the Ecosystem - Definition and types, Detailed study of pond ecosystem, Food chain, food web and ecological pyramids, Energy flow in an ecosystem, Single channel, Y – shape and Universal model
	102.3	To understand the Biodiversity and its conservation, Causes of reduction of biodiversity, Wildlife conservation acts (1972 and 1984), Introductory study of national parks and sanctuaries – Tadoba, Kanha, Bharatpur and Nagzira, Hot spots of biodiversity in India
	102.4	To understand the Sources, effect and control measures of air pollution, Acid rain, green house effect, ozone depletion and global warming, Sources, effect and control measures of water pollution, Sources effect and control measures of noise pollution, Toxic effect of heavy metals (lead, cadmium and mercury) – Bioaccumulation and biomagnification
F.Y. Zoology Practical Course	103	<ul style="list-style-type: none"> • Verify theoretical principles experimentally • Interpret the experimental data • Improve analytical skills • Correlate the theory and experiments and understand their importance

Department of Botany

PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)	
1.	Graduates will pursue higher studies in related fields including management
2.	Graduates will perform as employee in private/government institutions rising up to top positions
3.	Graduates will become entrepreneurs.
4.	Graduates will prepare for various competitive examinations.

PO1. Understanding of Plant Diversity and its importance in the maintenance of ecological balance.

PO2. Students learn to carry out practical work, in the field and in the laboratory, interpreting plant morphology and anatomy, Plant identification, Vegetation analysis techniques.

PO3. Apply the knowledge of basic science, life sciences and fundamental process of plants.

PO4. Apply modern techniques and instruments for Biochemical estimation, Molecular Biology, Biotechnology, Plant Tissue culture experiments, cellular and physiological studies of plants with an understanding of the applications in human life.

PO5. Apply the knowledge gained from the studies for the upliftment of society via addressing health, environmental issues, food scarcity etc.

PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

PSO1. Critical evaluation of ideas and arguments by collecting relevant information about the plants, so as to recognize the irposition in the classification systems and at phylogenetic level.

PSO2. Students will be able to access the primary literature, identify relevant works for a particular topic, and evaluate the scientific content of these works

PSO3. Students will be able to compare and contrast the characteristics of the different groups of plants such as algae, fungi, bryophytes, pteridophytes, gymnosperms and angiosperms.

PSO4. Students will be able to use the evidence of comparative biology to explain how the theory of evolution offers the only scientific explanation for the unity and diversity of life on earth.

PSO5. Students will be able to explain how Plants function at gene, genome, cellular and tissue level,

PSO6. Students will be able to relate the physical features of the environment to the structure of populations, communities, and ecosystems.

PSO7. Students will be able to conceive the idea of artificial propagation of plants via vegetative methods and to find a livelihood via establishing miniature plant nurseries

Course Name: B. Sc.

Year/Semester: First/First

Subject: Botany

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
FY Paper-I Viruses, Prokaryotes, Algae And Biofertilizers (101)	101.1	<ul style="list-style-type: none"> To understand the nature of viruses, Ultra-structure and economic importance. Understand the properties of Mycoplasma and its reproduction. Understand general characteristics and reproduction in bacteria.
	101.2	<ul style="list-style-type: none"> To understand general characteristics and classification of algae To understand the to understand general structure of Cyanobacteria and its reproduction.
	101.3	<ul style="list-style-type: none"> Understand life cycle of <i>Chara</i>, <i>Vaucheria</i>, <i>Ectocarpus</i>, and <i>Batrachospermum</i>.
	101.4	<ul style="list-style-type: none"> To understand Scope and importance of Biofertilizers.

		<ul style="list-style-type: none"> Understand the microbes used in biofertilizers.
FY Paper-II Fungi, Plant Pathology, Lichens, Bryophyta and Mushroom Cultivation (102)	102.1	<ul style="list-style-type: none"> Understand the Characteristics of fungi. Understand the reproduction and life cycle of <i>Albugo</i>, <i>Mucor</i>, <i>Puccinia</i> and <i>Cercospora</i>.
	102.2	<ul style="list-style-type: none"> Pathogen study, control and causes of diseases : leaf curl of papaya, Citrus canker and red rot of sugarcane
	102.3	<ul style="list-style-type: none"> Understand classification and general characteristics of Bryophyta. Life history of <i>Marchantia</i>, <i>Anthoceros</i> and <i>Funaria</i> To Study the nutritional and medicinal values of edible and non-edible mushrooms. Technology of mushroom cultivation
F.Y. Chemistry Practical Course	103	<ul style="list-style-type: none"> Study the fungal genera. Study the lichens, thallus structure and types of lichens. Plant pathological study. Study of bryophytes and identification of its characteristics. Preparation of mushroom beds.

Semester II
Department of English
Course Objectives and Outcomes
Compulsory English

Unit I: Objective-Making students conscious about the functioning of Democracy.

Outcome-Students tried to understand the importance of democracy.

Unit II: Objective- Making students understand slavery and its effects.

Outcome-Students tried to understand the effects of slavery and its punishing practice.

Unit III: Objective-To make students understand correct usage of Tense, Transformation of sentences and Common errors.

Outcome-Students tried to solve the examples of Tense, Transformation of sentences and Common errors..

Unit IV: Objective-To create the ability to write Curriculum Vitae.

Outcome-Students attempted to write the Curriculum Vitae.

Department of Marathi
Course Objectives and Outcomes
Programme Objectives

- उद्दिष्टे:— 1. मराठी भाषेविषयी विद्यार्थ्यांमध्ये अभिरुची निर्माण करणे.
2. साहित्यलेखनाची व वाचनाची आवड निर्माण करणे.
3. विद्यार्थ्यांमध्ये असलेल्या सुप्त कलांगुणांना वाव देऊन त्यांच्यात साहित्यविषयक वृद्धिंगत करणे.
4. साहित्यातून मानवतावादी दृष्टिकोण रुजविणे.
5. साहित्यातून समाजातील प्रश्नांना वाचा फोडून त्यांचे निराकरण करणे.

Course Outcomes

साहित्य सेतू

- ध्येय:—
1. भावी काळात विद्यार्थ्यांमधून साहित्यनिर्मिती करणे.
 2. अध्यापन व अध्ययनात विद्यार्थ्यांना सहभागी करून संवादशील वातावरण निर्मिती करणे.
 3. विभागात विविध उपक्रमांचे आयोजन करून मराठी भाषेचा दर्जा वाढविणे.
 4. विद्यार्थ्यांमध्ये संशोधनवृत्ती वृद्धिंगत करणे.
 5. मराठी भाषेची प्रयोगशाळा निर्माण करणे.

Department of Chemistry
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: First/ Second

Subject: Chemistry

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
FY Paper -I Organic Chemistry (201)	201.1	<ul style="list-style-type: none">• To make students understand different organic compounds and the concept structure and bonding in organic compounds.• Understand the mechanism of organic reaction.
	201.2	<ul style="list-style-type: none">• Understand the concept of stereochemistry of organic compounds.• To make the structure of Geometrical isomerism and conformational isomerism.
	201.3	<ul style="list-style-type: none">• Many of the daily used materials are organic compounds and majority of them are hydrocarbons therefore this topic makes the concept regarding their information

	201.4	<ul style="list-style-type: none"> • Basic of the alkane and alkynes with respect to their chemical point of view. • To understand the aromaticity of organic compounds.
F.Y. Pape-II Physical Chemistry (202)	202.1	<ul style="list-style-type: none"> • To understand the thermodynamics of chemical reactions. • Understand free energy functions like work function, Gibb's free energy etc.
	202.2	<ul style="list-style-type: none"> • To understand the concept of phase equilibria. Statement of phase rule and term. Application of phase rule
	202.3	<ul style="list-style-type: none"> • Understand the concept of nuclear chemistry and molecular structure
	202.4	<ul style="list-style-type: none"> • To Understand the concept of chemical kinetics and theories of chemical kinetics.
F.Y. Chemistry Practical course	203	<ul style="list-style-type: none"> • Verify theoretical principles experimentally • Interpret the experimental data • Improve analytical skills • Correlate the theory and experiments and understand their importance

**Department of Physics
Course Outcomes (COs)**

Course Name: B. Sc.

Year/Semester: First/Second

Subject: Physics

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
Paper 1: Oscillations, Kinetic theory of gases and Thermodynamics (201)	201.1	<ul style="list-style-type: none"> • To understand the concept of linear and angular S.H.M., Damped harmonic oscillator
	201.2	<ul style="list-style-type: none"> • To understand the concept of Forced oscillation with one degree of freedom and kinetic theory of gasses.
	201.3	<ul style="list-style-type: none"> • To understand the Transport phenomenon in gases, Zeroth and First law of thermodynamics and Carnot's Theorem
	201.4	<ul style="list-style-type: none"> • To understand second and third law of thermodynamics and Maxwell's general relationship and its applications
Paper 2: Gravitation, Astrophysics, Magnetism and Magnetostatics (202)	202.1	<ul style="list-style-type: none"> • To understand Newton's laws of gravitation and the concept of Gravitational self-energy of the galaxy
	202.2	<ul style="list-style-type: none"> • Know the constituents of universe (Solar system, Stars, Galaxies) and some physical aspects of universe
	202.3	<ul style="list-style-type: none"> • To understand the concepts of Dimagnetism, Paramagnetism and Ferromagnetism and their applications

	202.4	<ul style="list-style-type: none"> To understand the Concept of magnetic field and to study various laws of magneto static and their applications.
Physics Practical (203)	203	<ul style="list-style-type: none"> Apply and demonstrate the theoretical concepts of Physics and to develop scientific attitude.

Department of Mathematics
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: First/ Second

Subject: Mathematics

After successful completion of three-year degree programme in **Mathematics** students should be able to;

Paper	CO	Outcomes
FY Paper-I 201 Geometry, Differential and Difference Equations	201.1	Understand the concept of Solid Geometry
	202.2	Identify and solve the problems on Differential equations of first order
	203.3	Understand the Higher order linear differential equations with constant coefficient
	204.4	Understand the basic concept of Difference equation
FY Paper-II 202	202.1	Students learn the concept of Vector differentiation and Line Integral
	202.2	Learn the evaluation of area by double Integral
	202.3	Apply integration to evaluate over surface and volume
	202.4	Evaluate Improper Integrals also study the gamma and Beta functions

Department of Zoology
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: First/Second

Subject: Zoology

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
FY Paper -I Life and Diversity of Animals – Nonchordates (Arthropoda to Hemichordata) (201)	201.1	To understand the, Arthropoda : General characters and classification up to classes, Cockroach : Mouth parts, digestive system and reproductive system, Insects as Vectors : Mosquito, Housefly, Sandfly, Tse-Tse fly, Study of crustacean larvae : Nauplius, Zoea and Megalopa; Social behavior in honey bees
	201.2	To understand the Mollusca : General characters and classification up to classes, <i>Pila</i> : Morphology, digestive, respiratory and reproductive system, Pearl formation in Mollusca, Molluscan larvae : Glochidium and Veliger
	201.3	To understand the Echinodermata : General characters and classification up to classes, <i>Asterias</i> : External features and digestive system, Water vascular system and locomotion in Starfish, Echinoderm larvae :

		Bipinnaria and Auricularia
	201.4	To understand Hemichordata : General characters and phylogeny, <i>Balanoglossus</i> : External features and digestive system, Reproduction in <i>Balanoglossus</i> , Tornaria larva, Affinities of <i>Balanoglossus</i>
F.Y. Paper-II Cell Biology (202)	202.1	To understand the Ultrastructure of prokaryotic and eukaryotic cell, Plasma membrane: Structure- Fluid Mosaic Model and functions, Endoplasmic reticulum: Types, ultrastructure and functions, Golgi complex: Ultrastructure and functions
	202.2	To understand Ultrastructure of mitochondria, Oxidative phosphorylation – Glycolysis and Krebs cycle, Electron Transport Chain and terminal oxidation, Lysosome: Structure, polymorphism and functions
	202.3	To understand the Nucleus: Ultrastructure of nuclear membrane, Structure and functions of nucleolus, Chromosome: Structure and types, structure of nucleosome, Giant chromosomes: Lamp-brush and polytene chromosome
	202.4	To understand the Ribosome: Structure, types, Lake's model and functions, Somatic cell division: Cell cycle and Mitosis, Meiosis (different phases and significance), synaptonemal complex, Cellular ageing and cell death, Elementary idea of cancer and its causative agents
F.Y. Zoology Practical course	203	<ul style="list-style-type: none"> • Verify theoretical principles experimentally • Interpret the experimental data • Improve analytical skills • Correlate the theory and experiments and understand their importance

**Department of Botany
Course Outcomes (COs)**

Course Name: B. Sc.

Year/Semester: First/Second

Subject: Botany

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
FY Paper -I Paleobotany, Pteridophytes, Gymnosperms and Soil Analysis (201)	201.1	<ul style="list-style-type: none"> • To make students understand fossils, Pseudofossils, and its importance. • Knowledge about types of fossils. • Details of Geological time scale. • Differentiation among the types of fossil.
	201.2	<ul style="list-style-type: none"> • Study the general characteristics of Pteridophytes and its classification. • Life history of <i>Selaginella</i>. And <i>Equisetum</i>.
	201.3	<ul style="list-style-type: none"> • Classify the Gymnosperms, its

		<p>characteristics and economic importance.</p> <ul style="list-style-type: none"> • Understand the fossil gymnosperm. • Study the life cycle of <i>Cycas</i> and <i>Pinus</i>
	201.4	<ul style="list-style-type: none"> • Skill development and soil analysis. • Identification of types of soil on the basis of its color and texture. • Study the physical properties of soil. • Understand the pH of soil and nitrogen availability in it.
<p>F.Y. Pape-II Morphology of Angiosperms and Floriculture (202)</p>	202.1	<ul style="list-style-type: none"> • Study the morphological characteristics of plants. • Identification of morphological characters of plants. • Study the modification occur in root, stem and leaf.
	202.2	<ul style="list-style-type: none"> • Study the reproductive morphology. • Study the types of inflorescence. • Study the calyx, corolla and Androecium.
	202.3	<ul style="list-style-type: none"> • Understand the structure of gynoecium. • Study the fruit and its types.
	202.4	<ul style="list-style-type: none"> • Develop the skills of floriculture and cultivation • Method of cultivation.
<p>F.Y. Botany Practical course</p>	203	<ul style="list-style-type: none"> • Study of different root and stem modification and branching patterns. • Study the types of leaf and its phyllotaxy, venation and modification. • Understand the flower structure and position of calyx, corolla, androecium and gynoecium.

**Semester-III
Department of Chemistry
COURSE OUTCOMES (COs)**

Course Name: B. Sc.

Year/Semester: Second/Third

Subject: Chemistry

After the successful completion of the course, students will be able to-

Paper	CO	Outcomes
<p>S.Y Paper-I Inorganic Chemistry (301)</p>	301.1	<ul style="list-style-type: none"> • Understand the concept of molecular orbital theory and VSEPR theory.
	301.2	<ul style="list-style-type: none"> • Understand the properties of d and f block elements.
	301.3	<ul style="list-style-type: none"> • Understand the role of nonaqueous solvents. • Understand concept of errors and evaluation

		in chemical analysis.
	301.4	<ul style="list-style-type: none"> Understand the concept of chemistry of Lanthanides and Actinides series.
S.Y. Paper-II Organic Chemistry (302)	302.1	<ul style="list-style-type: none"> Understand the structure and chemical bonding in aryl, alkyl halides, and aldehydes.
	302.2	<ul style="list-style-type: none"> Understand the structure and chemical bonding in alcohols and phenols.
	302.3	<ul style="list-style-type: none"> Understand the nomenclature, structure of the carbonyl group, synthesis of aldehydes and ketones
	302.4	<ul style="list-style-type: none"> Understand chemical reaction of carboxylic acids and its derivatives.
S.Y. Chemistry Practical Course	303	<ul style="list-style-type: none"> Verify theoretical principles experimentally Interpret the experimental data Improve analytical skills Correlate the theory and experiments and understand their importance

Department of Physics
COURSE OUTCOMES (COs)

Course Name: B. Sc.

Year/Semester: Second/Third

Subject: Physics

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
Paper 1: Sound Waves, Applied Acoustic, Ultrasonic and Power Supply (301)	301.1	<ul style="list-style-type: none"> Understand the concept of group and phase velocities, formation of standing waves and diagrammatic introduction of human ear and its responses.
	301.2	<ul style="list-style-type: none"> Understand the working of transducers and their characteristics and the concept of acoustic and its applications.
	301.3	<ul style="list-style-type: none"> Understand the production and applications of ultrasonic waves.
	301.4	<ul style="list-style-type: none"> Understand the concept of voltage regulation and working of the half, full and bridge rectifier.
Paper 2: Physical Optics and Electromagnetic Waves (302)	302.1	<ul style="list-style-type: none"> Understand the concept of interference of light through thin film Apply the concept of interference of light through thin film in wavelength determination.
	302.2	<ul style="list-style-type: none"> Understand the concept of diffraction, Resolving Power of grating and Rayleigh's criterion for resolution.
	302.3	<ul style="list-style-type: none"> Understand the concept of polarization and double refraction
	302.4	<ul style="list-style-type: none"> Understand the origin and characteristics of EM waves, Physical significance of Maxwell's equations,

		Characteristics impedance of dielectric and Poynting theorem.
Physics Practical (303)	303	<ul style="list-style-type: none"> Apply and demonstrate the theoretical concepts of Physics and to develop scientific attitude.

Department of Mathematics
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Second/Third

Subject: Mathematics

After successful completion of three-year degree programme in Mathematics students should be able to;

Paper	CO	Outcomes
SY Paper-I 301 Advanced Calculus, Sequences &Series	301.1	Students understand Mean Value theorem
	301.2	Learn about an envelope of a family of curves in the plane and study the Langranges Multiplier method
	301.3	Understand the concept of sequence
	301.4	Use Tests for convergence
SY Paper-II 302 Differential Equation and Group Homomorphism	302.1	Understand the concept of Special Functions(Bessels and Legendre's function)
	302.2	Students understand the concept of Laplace Transform and solve the problems
	302.3	Applications of Laplace Transform & Fourier Transform
	302.4	Students develop knowledge in group theory

Department of Zoology
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Second/Third

Subject: Zoology

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
S.Y Paper-I Life and Diversity of Animals - Chordates (Protochordata to Amphibia) (301)	301.1	Understand the Protochordata : General characters and classification up to order, <i>Herdmania</i> : Structure, digestive system, ascidian tadpole and retrogressive metamorphosis, <i>Amphioxus</i> : Structure, digestive system, circulatory system, sense organs and protonephridia, Agnatha : General characters of Cyclostomata (<i>Petromyzon</i> and <i>Myxine</i>)
	301.2	Understand the Pisces : Salient features of Chondrichthyes and Osteichthyes, Origin of paired fins in fishes, Migration and Accessory respiratory organs in fishes, Amphibia : General characters and classification up to order, Parental care and Neotony in Amphibia
	301.3	Understand the Gametogenesis and type of eggs, Fertilization of egg, Post fertilization development of fish, Types of scales of fishes, Development of placoid scales
	301.4	Understand the Frog Embryology - Cleavage , blastulation and gastrulation, Fate map, Morphogenetic movements in gastrula of

		frog, Development of respiratory organs in frog, Development of Aortic arches of frog
S.Y. Paper-II Organic Zoology (302)	302.1	Understand the Mendelian Principles- Dominant recessive relationships, Mendelian laws, Interaction of genes- Epistasis - dominant and recessive, codominance, incomplete dominance, Quantitative genetics – Polygenic traits, inbreeding and outbreeding, hybrid vigor, Extracellular genome – Presence and functions of mitochondrial DNA, plasmids
	302.2	Understand the concept of Cytoplasmic inheritance- <i>Kappa</i> particles in <i>Paramecium</i> , CO ₂ sensitivity in <i>Drosophila</i> , milk factor in mice, Linkage and crossing over – Basic concepts of linkage, types and theories, Concepts of genes – Cistron, muton and recon, Genetic disorders in human beings – Haemoglobin disorders – Thalassemia and Sickle cell anemia. Metabolic disorder: Phenylketonurea
	302.3	Understand the concept of Sex determination – ZZ, XY, XO, ZW pattern, Sex determination in <i>Drosophila</i> – Genic balance theory, Environmental sex determination in <i>Bonellia</i> , Chromosomal aberrations: addition, deletion, duplication and inversion, Gene mutations- Spontaneous and induced mutations, mutagenic agents, Disorders related to chromosomal number- Turner syndrome, Klinefelter syndrome and Down syndrome
	302.4	Understand the Lethal genes – Concepts and consequences, Population genetics: Basic concepts in population genetics, Hardy Weinberg equilibrium and its significance, Genetic counseling – Introduction, purpose, hereditary diseases and disorders, Applied genetics - DNA fingerprinting, amniocentesis, sperm banks, karyotyping
S.Y. Zoology Practical Course	303	<ul style="list-style-type: none"> • Verify theoretical principles experimentally • Interpret the experimental data • Improve analytical skills • Correlate the theory and experiments and understand their importance

**Department of Botany
Course Outcomes (COs)**

Course Name: B. Sc.

Year/Semester: Second/Third

Subject: Botany

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
S.Y Paper-I Botany (301)	301.1	<ul style="list-style-type: none"> • Understand the study of angiosperms, Fossil angiosperms, Angiosperms taxonomy. • Understand the nomenclature. • Study the trends in taxonomy.
	301.2	<ul style="list-style-type: none"> • Understand the classification system of Bentham and Hooker, Engler and Prantle.
	301.3	<ul style="list-style-type: none"> • Study the types of pollination and its significance • Study the structure of anther, pollen grain and male gametophyte development. • Study the types of ovules and female gametophyte.

		<ul style="list-style-type: none"> • Understand the fertilization process.
	301.4	<ul style="list-style-type: none"> • Study the skills of landscaping and gardening.
S.Y. Paper-II Angiosperm anatomy and Horticulture (302)	302.1	<ul style="list-style-type: none"> • Understand anatomical features of plants and its organs. • Study the tissue its types and functions.
	302.2	<ul style="list-style-type: none"> • Study the primary and secondary growth I stem and root.
	302.3	<ul style="list-style-type: none"> • Study the periderm growth rings, sap heartwood, leaf anatomy. • Study the Senescence and Abscission.
	302.4	<ul style="list-style-type: none"> • Study the techniques of horticulture, methods of propagation. • Learn the technique of bonsai preparation.
S.Y. Botany Practical Course	303	<ul style="list-style-type: none"> • Study the simplest and complex tissue from permanent micro-preparation. • Identification of types of vascular bundle. • Anatomy of Dicot and Monocot stem with temporary or double stained. • Study the internal structure of dicot and monocot leaf.

SEMESTER IV
Department of Chemistry
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Second/Fourth

Subject: Chemistry

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
S.Y. Paper-I Inorganic Chemistry (401)	401.1	<ul style="list-style-type: none"> • Understand the properties of coordination compounds. Chelates: classification and their application and valance bond theory of complexes.
	401.2	<ul style="list-style-type: none"> • Understand the concept of isomerism in coordination compounds. Concept of oxidation and reduction and balancing of redox reaction.
	401.3	<ul style="list-style-type: none"> • Understand the concept of colorimetry and spectrophotometry. • Understand the concept of separation technique like chromatography ion exchange and solvent extraction.
	401.4	<ul style="list-style-type: none"> • Understand the concept of inorganic polymers.
S.Y. Paper-II Physical Chemistry (402)	402.1	<ul style="list-style-type: none"> • Understand solid state and their classification and their laws. • To understand the concept of determination of crystal structure.
	402.2	<ul style="list-style-type: none"> • Understand electrochemistry of reversible and

		<ul style="list-style-type: none"> irreversible cells. Understand the concept of electrical transport and transport number.
	402.3	<ul style="list-style-type: none"> Use spectroscopy for chemical analysis. Understand types of spectroscopy.
	402.4	<ul style="list-style-type: none"> Understand the concept of quantum chemistry and wave function.
S.Y. Chemistry practical Course	403	<ul style="list-style-type: none"> Verify theoretical principles experimentally Interpret the experimental data Improve analytical skills Correlate the theory and experiments and understand their importance

**Department of Physics
Course Outcomes (COs)**

Course Name: B. Sc.

Year/Semester: Second/Fourth

Subject: Physics

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
Paper 1: Solid State Physics, X-ray and Laser (401)	401.1	<ul style="list-style-type: none"> Understand the basic concept of crystallography, find various lattice parameters, find Miller Indices of the given plane and draw planes from the set of Miller Indices.
	401.2	<ul style="list-style-type: none"> Understand main feature of continuous X-ray spectra and Characteristics X-ray spectra, Apply Moseley's law to determine wavelength of X-ray.
	401.3	<ul style="list-style-type: none"> Understand the basic concept of solid state physics. Apply Bragg's law for wavelength determination and simple cubic structure determination. Calculate Miller indices of the given plane and identify the orientation of the plane from the given set of Millar indices.
	401.4	<ul style="list-style-type: none"> Understand the concepts of LASER emission. Understand the construction and working of various types of LASER.
Paper 2: Solid State Electronics, and Molecular Physics (402)	402.1	<ul style="list-style-type: none"> Understand the construction and working and characteristics of various solid state devices.
	402.2	<ul style="list-style-type: none"> Understand the construction and working and characteristics of various FETs.
	402.3	<ul style="list-style-type: none"> Understand the concept molecular physics.
	402.4	<ul style="list-style-type: none"> Understand and apply the Raman spectroscopy.
Physics Practical (403)	403	<ul style="list-style-type: none"> Apply and demonstrate the theoretical concepts of Physics and to develop scientific attitude.

Department of Mathematics
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Second/Fourth

Subject: Mathematics

After successful completion of three-year degree programme in Mathematics students should be able to;

Paper	CO	Outcomes
SY Paper-I 401 Partial Differential Equations & Calculus of Variation	401.1	Understand the concept of ordinary Differential Equations in more than two variables
	401.2	Use the methods to solve the linear and nonlinear partial differential equations of first order
	401.3	Understand the concept of Higher Partial Differential Equations
	401.4	Find the distance between the curves and understand the concept of Eulers differential equation
SY Paper-II 402 Mechanics	402.1	Students learn about Coplanar Forces, Virtual Work and Catenary
	402.2	Understand the velocity, Acceleration and simple harmonic Motion
	402.3	Understand the concept of Lagranges Equations of motion
	402.4	Learn the problem of two bodies moving under the influence of a mutual central force

Department of Zoology
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Second/Fourth

Subject: Zoology

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
S.Y. Paper-I Life and Diversity of Animals – Chordates (Reptilia, Aves and Mammals) (401)	401.1	Understand the Reptilia- Classification based on temporal vacuities, Poison apparatus, biting mechanism , snake venom and its importance, Aves – Comparison of Ratitae and Caranitae, Flight adaptations and migration, Mammals – General characters of Prototheria, Metatheria and Eutheria
	401.2	Understand the Modern theories of evolution : Darwinism and Neo-Darwinism, Adaptations – Cursorial, Aquatic, Terrestrial, Fossorial and Volant, Introduction to genetic basis of evolution – Species Deme, Variation, Races in Man (Caucasoid, Negroid, Mongoloid and Australoid)
	401.3	Understand the Comparative account of aortic arches and heart in Reptiles, Birds and Mammals, Structure of hen's egg, Development of chick up to primitive streak stage, Development of extra embryonic membranes in chick and functions
	401.4	Understand the Frog Embryology - Cleavage , blastulation and gastrulation, Fate map, Morphogenetic

		movements in gastrula of frog, Development of respiratory organs in frog, Development of Aortic arches of frog
S.Y. Paper-II Molecular Biology and Immunology(402)	402.1	Understand the DNA: Structure of DNA, forms of DNA, properties of DNA, DNA as a genetic material, RNA: Structure of RNA, types of RNA, RNA as a genetic material, Prokaryotic and eukaryotic gene structure, Recombination in Bacteria: Bacterial transformation – Griffith's experiment, Conjugation in bacteria, transduction
	402.2	Understand the concept DNA replication: Semiconservative model, Meselson Stahl experiments. Process of replication – origin of replication, concept of replication, directionality of replication, Genetic code: Characteristics of genetic code, Wobble hypothesis, Protein synthesis: Transcription mechanism – Initiation, elongation and termination of transcription. Translation – activation of amino acids, transfer of activated amino acids to tRNA, Initiation, elongation and termination of polypeptide chain; inhibitors of protein synthesis, Gene regulation models- Lac operon and tryptophan operon
	402.3	Understand the Concepts of immunity – Innate and acquired immunity, organs of the immune system, Antigen - Structure, diversity, functions and types of antigen, Antibody- Structure, types and functions, Antigen-antibody interaction – Precipitation and agglutination
	402.4	Understand the Types of immune response: B cell response (antibody mediated), T cell response (cell mediated), Complement system: Basic concepts of complement cascades, classical, alternative and MBL pathways, implications of complement system in immune defense, Cytokines- General account on cytokines, Cytokine related diseases, Autoimmunity and immunodeficiencies- Autoimmune diseases and their treatment, AIDS and other immunodeficiencies
S.Y. Zoology practical Course	403	<ul style="list-style-type: none"> • Verify theoretical principles experimentally • Interpret the experimental data • Improve analytical skills • Correlate the theory and experiments and understand their importance

**Department of Botany
Course Outcomes (COs)**

Course Name: B. Sc.

Year/Semester: Second/Fourth

Subject: Botany

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
S.Y. Paper-I	401.1	<ul style="list-style-type: none"> • Understand the brief account of cell theory. Comparison between eukaryotic and prokaryotic

Cell biology, Plant Breeding, Evolution, and Technology (401)		<p>cell.</p> <ul style="list-style-type: none"> • Structure and function of cell wall, Endoplasmic reticulum, Golgi complex, plasma membrane, Ribosome and Vacuole.
	401.2	<ul style="list-style-type: none"> • Understand the structure and functions of chloroplast, Mitochondria and Nucleus. • Understand the chromosome morphology, Molecular organization of chromosomes. • Understand the sex chromosomes and cell division process.
	401.3	<ul style="list-style-type: none"> • Understand plant breeding, methods of plant breeding. • Understand the biostatistics and determine the Mean, Mode, Median. • Understand the evolution process.
	401.4	<ul style="list-style-type: none"> • Understand the seed development technology which is used to increase a commercial value of seeds.
S.Y. Paper-II (402)	402.1	<ul style="list-style-type: none"> • Understand the principle of Mendelism. • Understand the linkage and crossing over process.
	402.2	<ul style="list-style-type: none"> • Understand the Mutation , chromosomal aberrations and variation in chromosome number. • Understand the DNA damage and repair process.
	402.3	<ul style="list-style-type: none"> • Study the concept of DNA and RNA. • Understand the concept of gene, genetic code. • Understand the process of protein synthesis and regulation of gene interaction.
	402.4	<ul style="list-style-type: none"> • Study the skill development. • Develop the skills related with plant nursery. • Understand the nursery management techniques..
S.Y. Botany practical Course	403	<ul style="list-style-type: none"> • Study the Mendel's law of segregation with help of color beads. • Prove the Mendel's law of independent assortment. • Study the different method of vegetative propagation. • Study the method of soil sterilization for plant nursery.

SEMESTER V
Department of Chemistry
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Third/Fifth

Subject: Chemistry

After the successful completion of the course students will be able to-

Paper	CO	Outcome
T.Y. Paper-I	501.1	<ul style="list-style-type: none"> • Understand the concept of organic compounds of nitrogen and amines.

Organic Chemistry (501)	501.2	<ul style="list-style-type: none"> Understand heterocyclic compounds and their structure.
	501.3	<ul style="list-style-type: none"> Understand quantitative analysis: Estimation of carbon, hydrogen and nitrogen etc. Understand reaction and structure of organometallic compounds.
	501.4	<ul style="list-style-type: none"> To study Spectroscopy. To understand Electromagnetic and Infrared absorption spectroscopy
T.Y. Paper-II Physical Chemistry (502)	502.1	<ul style="list-style-type: none"> Understand electrochemistry and various types of cells. Understand types of reversible electrodes.
	502.2	<ul style="list-style-type: none"> Understand quantum chemistry and molecular orbital theory.
	502.3	<ul style="list-style-type: none"> Understand the concept of Photochemistry. To study Raman Spectroscopy
	502.4	<ul style="list-style-type: none"> To understand colligative properties and macromolecules.
T.Y. Chemistry Practical Course	503	<ul style="list-style-type: none"> Verify theoretical principles experimentally Interpret the experimental data Improve analytical skills Correlate the theory and experiments and understand their importance

Department of Physics
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Third/Fifth

Subject: Physics

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
Paper 1: Atomic Physics, Free Electron Theory and Statistical Physics (501)	501.1	<ul style="list-style-type: none"> Understand Vector atom Model, the concept of space quantization, Zeeman Effect and L-S and J-J coupling.
	501.2	<ul style="list-style-type: none"> Apply free electron theory and band theory of solid to classify solids as conductor, semiconductor and insulator.
	501.3	<ul style="list-style-type: none"> Understand and apply Maxwell-Boltzmann statistics
	501.4	<ul style="list-style-type: none"> Understand and apply Bose-Einstein statistics and Fermi-Dirac statistics.
Paper 2: Quantum Mechanics, Nanomaterials and Nanotechnology (502)	502.1	<ul style="list-style-type: none"> Understand the basics of quantum mechanics and apply it to explain the phenomena like black body radiation and Compton Effect.
	502.2	<ul style="list-style-type: none"> Understand and apply Schrodinger's equation to free particle in a one and three dimension.
	502.3	<ul style="list-style-type: none"> Understand the basics of nanotechnology.

	502.4	<ul style="list-style-type: none"> Understand the synthesis and characterization techniques of nano materials.
Physics Practical (503)	503	<ul style="list-style-type: none"> Apply and demonstrate the theoretical concepts of Physics and to develop scientific attitude.

Department of Mathematics
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Third/Fifth

Subject: Mathematics

After successful completion of three year degree program in Mathematics a Student should be able to;

Paper	CO	Outcomes
TY Paper-I 501 Analysis	501.1	Understand the concept of Fourier series
	501.2	Understand the concept of Riemann-Stieltjes integral
	501.3	Understand the concept of Analytics Functions
	501.4	Students learn about Mobius Transformation
TY Paper-II 502 Metric spaces, Complex integration & Algebra	502.1	Students deal with the definition, properties and examples of countable and uncountable sets and understand the metric space
	502.2	Understand the concept of Completeness, Compactness and Connectedness
	502.3	Understand the concept of Ring Analyze and demonstrate examples of ideals and quotient rings
	502.4	Understand the basic concept of Complex Integration Evaluate integrals along a path - directly from the definition and also via the Fundamental Theorem of Contour Integration and Cauchy's Theorem

Department of Zoology
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Third/Fifth

Subject: Zoology

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
T.Y. Paper-I General Mammalian Physiology – I (501)	501.1	Understand the Enzymes – Distribution and chemical nature of enzymes, General properties of enzymes, Classification of enzymes, Factors affecting enzyme activity
	501.2	Understand the Structure and functions of digestive glands - (Salivary, Gastric, Intestinal, Liver and Pancreas), Gastrointestinal hormones, Digestion and absorption of proteins, carbohydrates and lipids, Vitamins- Fat soluble and water soluble vitamins; Sources, deficiency and diseases
	501.3	Understand the Respiratory pigments - Types , distribution and properties, Mechanism of Respiration, Transport of O ₂ and CO ₂ , Respiratory disorders and effects of smoking
	501.4	Understand the Composition and functions of blood, Blood clotting – Intrinsic and extrinsic factors, blood groups and Rh factor, Cardiac

		cycle, E.C.G. and Blood pressure
T.Y. Paper-II Physical Zoology (502)	502.1	Understand Site selection and construction ,Pre stocking and post stocking management of nursery, rearing and stocking ponds, Breeding of fishes by bund and Chinese hatcheries. Induced breeding by hypophysetion. New generation drugs in induced breeding, Brief study of freshwater aquaculture system – Polyculture, cage culture, sewage fed fish culture, integrated fish farming, Fish products and byproducts, Fish preservation
	502.2	Understand the Prawn culture and Pearl culture, Fabrication and setting up of aquarium and its maintenance, Breeding of aquarium fishes – Live bearers and egg layers, Diseases caused by fungi, bacteria, protozoa and helminthes
	502.3	Understand the concept Chemical control : Insecticides - Pyrethroids, carbomate and HCN – mode of action, merits and demerits, Biological control – Biological agents – predators and parasites; merits and demerits, Crop pest: Life cycle, damage and control of Cotton spotted boll worm - <i>Earias vitella</i> ,Stored grain pest- Rice Weevil, <i>Sitophilus oryzae</i> , Animal pest: Life cycle, damage and control of – House fly – <i>Musca nebulo</i> , Stable fly – <i>Stomoxys calcitrans</i>
	502.4	Understand the Sericulture- Types of Silkworm. Life cycle and rearing of mulberry silkworm, <i>Bombyx mori</i> , Life cycle and rearing of non mulberry silkworm (Tasar), <i>Antheraea mylitta</i> ; Brief idea of cocoon processing for silk fabric - cocoon boiling, reeling, rereeling, winding, doubling, twisting and weaving, Apiculture – Types of honey bees. Life cycle, culture, movable frame hive, bee product and its economic importance, Lac culture – Lac insect, <i>Laccifer lacca</i> - Life cycle, Lac processing, Lac products and Economic Importance
T.Y. Zoology Practical Course	503	<ul style="list-style-type: none"> • Verify theoretical principles experimentally • Interpret the experimental data • Improve analytical skills • Correlate the theory and experiments and understand their importance

**Department of Botany
Course Outcomes (COs)**

Course Name: B. Sc.

Year/Semester: Third/Fifth

Subject: Botany

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
T.Y. Paper-I Plant physiology, Mineral Nutrition and Hydroponi	501.1	<ul style="list-style-type: none"> • Understand water relation and its significance. • Understand the Osmosis, Diffusion, Osmotic Pressure. • Understand the ascent of sap. • Understand the transpiration, phloem transport and mineral uptake.
	501.2	<ul style="list-style-type: none"> • Understand the photosynthesis process, photosynthetic pigments. • Understand the light and dark reaction of

cs (501)		<p>photosynthesis.</p> <ul style="list-style-type: none"> • Understand the respiration and its mechanism. • Understand the fermentation process.
	501.3	<ul style="list-style-type: none"> • Understand the nitrogen fixation by symbiotic and Non-Symbiotic mechanism. • Study the plant movements and photoperiodism. • Study the circadian rhythms and Biological Clock.
	501.4	<ul style="list-style-type: none"> • Understand the mineral nutrition, source and types. • Study the role and deficiency symptoms Macronutrients and Micronutrients. • Study the hydroponics, advantages and disadvantages of hydroponics.
T.Y. Paper-II Plant Ecology and Organic Farming (502)	502.1	<ul style="list-style-type: none"> • Understand the concept of Ecology. • Study the climatic, Edaphic and Physiographic factors.
	502.2	<ul style="list-style-type: none"> • Study the ecosystem, components of Ecosystem. • Understand the food chain, food web and ecological pyramids. • Study the Autecology and Synecology.
	502.3	<ul style="list-style-type: none"> • Understand the process of succession. • Study the plant adaptations. • Study the Biogeochemical cycles.
	502.4	<ul style="list-style-type: none"> • Develop the skills of organic farming. • Understand the methods of recycling of biodegradable kitchen, agriculture and industrial waste. • Study to prepare organic manure.
T.Y. Botany Practical Course	503	<ul style="list-style-type: none"> • Determining the Frequency, Density, and Abundance of community by Quadrant Method. • Determining the homogeneity of vegetation by Raunkier's frequency. • Study the frequency of herbaceous species in grassland to compare the frequency distribution with Raunkier's standard frequency diagram. • Study the soil profile of different locations near by area. • Study the salinity of different water samples.

SEMESTER VI
Department of Chemistry
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Third/Sixth

Subject: Chemistry

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
T.Y. Paper-I Inorganic Chemistry	601.1	<ul style="list-style-type: none"> • Understand Metal ligand bonding in Transition Metal complexes. • Electronic spectra of Transition Metal Complexes.
	601.2	<ul style="list-style-type: none"> • Understand Magnetic Properties of Transition metal

(601)		Complexes. <ul style="list-style-type: none"> To study thermodynamic and kinetic aspect of metal complexes.
	601.3	<ul style="list-style-type: none"> Understand organometallic chemistry. Understand properties and structure of metal carbonyls.
	601.4	<ul style="list-style-type: none"> To study Bio-organic chemistry Understand the concept of s Hard and Soft acids and bases.
T.Y. Paper-II Organic Chemistry (602)	602.1	<ul style="list-style-type: none"> Understand NMR Spectroscopy
	602.2	<ul style="list-style-type: none"> Understand Organic Synthesis via Enolates. Carbohydrates: classification, reaction and mechanisms.
	602.3	<ul style="list-style-type: none"> Understand Amino acids, peptides and nucleic acids. To study Fats, oil and detergents.
	602.4	<ul style="list-style-type: none"> Understand synthetic dyes, synthetic drugs, synthetic polymer.
T.Y. Chemistry Practical Course	603	<ul style="list-style-type: none"> Verify theoretical principles experimentally Interpret the experimental data Improve analytical skills Correlate the theory and experiments and understand their importance

Department of Physics

Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Third/Sixth

Subject: Physics

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
Paper 1: Relativity, Nuclear Physics and Bio Physics (601)	601.1	<ul style="list-style-type: none"> Understand the postulates of the special theory of relativity. Apply the concept of relativity to explain Length contraction, Time dilation, Velocity addition theorem, Variation of mass with velocity, Mass energy equivalence.
	601.2	<ul style="list-style-type: none"> Understand the concept of nuclear physics.
	601.3	<ul style="list-style-type: none"> Apply the concept of nuclear physics to explain various decay processes.
	601.4	<ul style="list-style-type: none"> Understand the Principle, Construction and working of different bio instruments.
Paper 2: Electronics, Fiber Optics, Communication and Digital	602.1	<ul style="list-style-type: none"> Understand the operations and applications of operational amplifiers.
	602.2	<ul style="list-style-type: none"> Understand the various basic structures of optical fibers and basic concept involved in propagation of light waves through optical fiber.

Electronics (602)	602.3	<ul style="list-style-type: none"> Understand the concept of amplitude modulation and frequency modulation.
	602.4	<ul style="list-style-type: none"> Understand various number systems. Construct the truth tables for various logic gates. Verify De Morgan's theorem
Physics Practical (603)	603	<ul style="list-style-type: none"> Apply and demonstrate the theoretical concepts of Physics and to develop scientific attitude.

Department of Mathematics

Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Third/Sixth

Subject: Mathematics

After successful completion of three-year degree program in Mathematics Students should be able to;

Paper	CO	Outcomes
TY Paper-I 601 Abstract Algebra	601.1	Understand the concept of Group Automorphism
	601.2	Understand definition and examples of vector spaces
	601.3	Learn about algebra of linear transformation
	601.4	Find range, rank, kernel and nullity of matrix and also study about Inner product spaces
TY Paper-II 602 Special Theory of Relativity	602.1	Study the Newtonian Mechanics and understand the concept special theory of relativity
	602.2	Learn the Lorentz transformation and consequences
	602.3	Understand the concept of Tensors and Space –Time structure
	602.4	Study the Mass Energy Equivalence, Energy momentum Tensor and Maxwell's Equation of Electromagnetic theory in Vacuum

Course Name: B. Sc.

Year/Semester: Third/Sixth

Subject: Zoology

After the successful completion of the course students will be able to-

Paper	CO	Outcomess
T.Y. Paper-I General Mammalian Physiology - II (601)	601.1	Understand the Types of neurons, E.M. structure of neuron, Conduction of nerve impulse, Ultrastructure of striated muscle, Sliding filament theory of muscle contraction, Properties of muscles (Twitch, Tetanus, Tonus, Summation, All or None Principle, Muscle fatigue)
	601.2	Understand Structure of uriniferous tubule, Mechanism of urine formation, Counter – current mechanism, Normal and abnormal constituents of urine; Elementary idea of dialysis
	601.3	Understand the Structure and functions of pituitary gland, Structure and functions of thyroid and parathyroid gland,

		Structure and functions of adrenal gland, Structure and functions of pineal gland
	601.4	Understand the Oestrous and menstrual cycle, Male and female sex hormones, Causes of infertility in male and female, Contraceptives – Mechanical and hormonal ; <i>In-vitro</i> fertilization
T.Y. Paper-II Applied Zoology –II (Biotechniques, Microtechnique, Biotechnology, Bioinformatics and Biostatistics) (602)	602.1	Understand the Concepts of sterilization: Filtration, autoclaving, dry heat sterilization, wet sterilization and radiation, Separation of biomolecules: Centrifugation (Sedimentation, density gradient); Chromatography (Elementary idea of thin layer, gel filtration and ion exchange - Principles and applications), Electrophoresis: Agarose gel electrophoresis, SDS-PAGE, Principles of colorimeter and spectrophotometers
	602.2	Understand the concept of Fixation, dehydration, clearing, embedding & section cutting, Difficulties encountered during section cutting (causes and remedies), Double staining with Haematoxylin and Eosin, Histochemical staining techniques for carbohydrates (Periodic acid schiff), proteins (Mercury-bromophenol blue) and lipids (Sudan black-B)
	602.3	Understand the Basic concepts in recombinant DNA technology, Gene isolation method- Shotgun cloning, Isolation of gene- DNA manipulation enzymes: Nucleases, ligases, polymerases, Basic concepts of cloning vectors and splicing : Insertion of DNA and ligation using blunt ends, cohesive ends, Cloning vectors, Application of biotechnology: Insulin and vaccine production
	602.4	Understand the Bioinformatics: Definition, Basic concepts in bioinformatics, importance and role of bioinformatics in life sciences, Bioinformatics databases- introduction, types of databases, Nucleotide sequence databases, Elementary idea of protein databases, Biostatistics – Tabulation of data, presentation of data, sampling errors, mean, mode, median, probability, standard error and standard deviation
T.Y. Zoology Practical Course	603	<ul style="list-style-type: none"> • Verify theoretical principles experimentally • Interpret the experimental data • Improve analytical skills • Correlate the theory and experiments and understand their importance

**Department of Botany
Course Outcomes (COs)**

Course Name: B. Sc.

Year/Semester: Third/Sixth

Subject: Botany

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
Biochemistry, biotechnology And herbal technology	601.1	<ul style="list-style-type: none"> • Study the lipids, role of fatty acids, oils and waxes. • Study the enzymes its classification and

Paper-I (601)		<p>nomenclature.</p> <ul style="list-style-type: none"> • Study the basic concepts of Enzymology. • Study the enzyme inhibitors.
	601.2	<ul style="list-style-type: none"> • Study the tissue culture techniques. • Study the process of sterilization. • Study the preparation of culture media..
	601.3	<ul style="list-style-type: none"> • Understand the techniques of genetic engineering. • Study the process of DNA library. • Study the types of DNA library. • Study the Agrobacteria mediated gene transfer.
	601.4	<ul style="list-style-type: none"> • Develop the skills of herbal technology. • Study the methods of Cultivation, Harvesting, • Understand the technique of dye yielding of herbal plants. • Study the used of herbs in cosmetics.
T.Y. Paper-II Phytogeography, Utilization of Plants, Techniques and Pharmacognosy (602)	602.1	<ul style="list-style-type: none"> • Study the phytogeography, climatic regions of India. • Study the Environmental pollution. • Study the Renewable and Non Renewable sources. • Understand the conservation strategies.
	602.2	<ul style="list-style-type: none"> • Study the morphology, utilization and important chemicals constituents of the plants. • Understand the concept of Ethnobotany.
	602.3	<ul style="list-style-type: none"> • Study the principle, types and application of microscope. • Study the various techniques.
	602.4	<ul style="list-style-type: none"> • Understand synthetic dyes, synthetic drugs, synthetic polymer. • Study the pharmacological plants
T.Y. Botany Practical Course	603	<ul style="list-style-type: none"> • Find out the level of noise pollution of different nearby area with the help of decimeter and compare it with tolerance limit • Study the morphology, utilization, and important chemical constituents of plants. • Study the Ethnobotanical importance of plants. • Study the different adulterants used with reference to drug adultration.

**JOB
GEORGE**

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Principal
Bhiwapur Mahavidyalaya
Bhiwapur, Dist.-Nagpur

Backward Class Youth Relief Committee's

Bhiwapur Mahavidyalaya, Bhiwapur

Dist - Nagpur, Maharashtra 441201

Criteria-2

Teaching- Learning and Evaluation

2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website.

Academic Session 2019-20



Programme Outcomes

Course Outcomes

Academic session 2019-2020

**Bachelor of Arts, Bachelor of
Commerce & Bachelor of Science**

Bhiwapur Mahavidyalaya, Bhiwapur
Course Outcomes and Programme Outcomes
Index
Bachelor of Arts

Session	Course	Semester	Sr. No.	Subject	
2019-2020	B. A.	First	1	English	
			2	Marathi	
			3	Political Science	
			4	Economics	
			5	English Literature	
			6	Sociology	
			7	History	
			8	Marathi Literature	
			9	Ambedkar Thought	
		Second	10	English	
			11	Marathi	
			12	Political Science	
			13	Economics	
			14	English Literature	
			15	Sociology	
			16	History	
			17	Marathi Literature	
			18	Ambedkar Thought	
		Third	19	English	
			20	Marathi	
			21	Political Science	
			22	Economics	
			23	English Literature	
			24	Sociology	
			25	History	
			26	Marathi Literature	
			27	Ambedkar Thought	
		Fourth	28	English	
			29	Marathi	
			30	Political Science	
			31	Economics	
			32	English Literature	
			33	Sociology	
				34	History
				35	Marathi Literature
				36	Ambedkar Thought
		Fifth	37	English	
			38	Marathi	
			39	Political Science	
			40	Economics	

			41	English Literature
			42	Sociology
			43	History
			44	Marathi Literature
			45	Ambedkar Thought
		Sixth	46	English
			47	Marathi
			48	Political Science
			49	Economics
			50	English Literature
			51	Sociology
			52	History
			53	Marathi Literature
			54	Ambedkar Thought

Bachelor of Commerce

Session	Course	Semester	Sr. No.	Subject
2019-2020	B. Com.	First	1	English
			2	Marathi
			3	Financial Accounting- I
			4	Business Organization
			5	Company Law
			6	Business Economics- I
		Second	7	English
			8	Marathi
			9	Statistics and Business Mathematics
			10	Business Management
			11	Secretarial Practice
			12	Business Economics-II
		Third	13	English
			14	Marathi
			15	Financial Accounting- II
			16	Business Communication and Management
			17	Business Law
			18	Monetary Economics-I
		Fourth	19	English
			20	Marathi
			21	Financial Accounting-III
			22	Skill Development
			23	Income Tax
			24	Monetary Economics-II

		Fifth	25	Financial Accounting-IV
			26	Cost Accounting
			27	Management Process
			28	Indian Economics-I
			29	Computerized Accounting
			30	Auditing
		Sixth	31	Financial Accounting-V
			32	Management Accounting
			33	Advanced Statistics
			34	Indirect Economics-II
			35	Human Resource Management
			36	Industrial Law

Bachelor of Science
(Physics, Chemistry, Mathematics, Zoology and Botany)

Session	Course	Semester	Sr. No.	Subject
2019-2020	B.Sc.	First	1	English
			2	Marathi
			3	Chemistry I & II
			4	Physics I & II
			5	Mathematics I & II
			6	Zoology I & II
			7	Botany I & II
		Second	8	English
			9	Marathi
			10	Chemistry I & II
			11	Physics I & II
			12	Mathematics I & II
			13	Zoology I & II
			14	Botany I & II
		Third	15	Chemistry I & II
			16	Physics I & II
			17	Mathematics I & II
			18	Zoology I & II
		Fourth	19	Botany I & II
			20	Chemistry I & II
			21	Physics I & II
			22	Mathematics I & II
			23	Zoology I & II
			24	Botany I & II
		Fifth	25	Chemistry I & II

			26	Physics I & II
			27	Mathematics I & II
			28	Zoology I & II
			29	Botany I & II
		Sixth	30	Chemistry I & II
			31	Physics I & II
			32	Mathematics I & II
			33	Zoology I & II
			34	Botany I & II

Bachelor of Arts

Department of English

Semester – I

Course Objectives and Course Outcomes

Compulsory English

Programme Outcomes

- CO1. Comprehend the use of language and grammar in the given context.
- CO2. Demonstrate advanced critical thinking skills.
- CO3. Communicate in a variety of contexts and genres.
- CO4. Equipped with Listening, Speaking, Reading and Writing skills.
- CO5. Imbibe the nuances of analyzing a text and reproduce with proper interpretations.

Programme Specific Outcomes (PSOs)

- PSO1. A vailing job opportunities in translation, transformation and media.
- PSO2. Developing a critical attitude about literary studies.
- PSO3. Imbuing literary research attitude.

Course Objectives

- To understand the interrelationship between works of literature and society.
- To explain the nature of language and literature.
- To obtain the skill of appreciation for literary works.
- To imbue the skills of essay writing.
- To be able to illustrate the nature of literary form like one-act-play, travelogues, and short story.

Course Outcomes

- Understood the interrelationship between works of literature and society.
- Explained the nature of language and literature.
- Obtained the skill of appreciation for literary works.
- Imbued the skills of essay writing.
- Succeeded in illustrating the nature of literary form like one-act-play, travelogues, and short story.

Department of Marathi
Course Objectives and Course Outcomes
Compulsory Marathi

साहित्यरंग.भाग-1

Unit I:

प्रकरण-१.उद्दिष्ट- लीळाचरित्रातील मराठी भाषेची जाणीव विद्यार्थ्यांना करुण देणे.

साध्य- विद्यार्थ्यांना लीळाचरित्रातील गद्य मराठी भाषेची ओळख झाली.

प्रकरण-२.उद्दिष्ट-शिवकालीन मराठी गद्य भाषाशैली व आज्ञापत्रातील अमात्याची लेखनशैलीची ओळख करणे.

साध्य-आज्ञापत्रातील मराठी गद्य भाषाशैली, अमात्याच्या लेखनशैली वरून छत्रपतीच्या स्वराज्य रक्षणाची जाणीव विद्यार्थ्यांना झाली.

प्रकरण-३.उद्दिष्ट- महात्मा फुले यांनी भारतीय शेतकऱ्यांच्या उत्थानासाठी सांगितलेले उपाय.

साध्य-शेतकऱ्यांची प्रगती व्हावी म्हणून विद्यार्थ्यांनी म. फुल्यांनी शेतीबध्द सुचविलेले उपाय समजून घेतले.

प्रकरण-४.उद्दिष्ट-साने गुरुजींनी सांगितलेली संस्कृती विषयी विद्यार्थ्यांना बोध करणे.

साध्य-सकळ संस्कृतीचा पाया प्रेम असून प्रेमावर संस्कृती आधारलेली असल्याचे विद्यार्थ्यांनी आत्मसात केले.

प्रकरण-५.उद्दिष्ट-शंभर दिडशे वर्षांपूर्वी समाजात स्त्रियांना सासूरवास कसा सहन करावा लागायचा याची जाणीव विद्यार्थ्यांना करणे.

साध्य-लक्ष्मीबाई टिळकांना झालेल्या सासूरवासाचे चित्रणामुळे विद्यार्थ्यांना सासूरवासाबद्दल जाणीव झाली.

Unit II:

कविता-१.उद्दिष्ट-संत ज्ञानेश्वरांनी हरिपाबातून सांगितलेल्या नामस्मरणाचे महत्व पटवून देणे.

साध्य-हरिच्या नामस्मरणाने संसारातील अनेक प्रकारच्या दुःखातून व संकटातून मुक्ती मिळते याची जाणीव विद्यार्थ्यांना झाली.

कविता-२. उद्दिष्ट-हंस-नल संवादातून तेराव्या शतकातील पंडिता काव्यशैलीची ओळख विद्यार्थ्यांना करुन देणे.

साध्य-नल-दमयंती आख्यान काव्याची रघुनाथ पंडितांनी रचलेली आख्यान काव्याची ओळख विद्यार्थ्यांना झाली

कविता -३.उद्दिष्ट-घनःश्याम सुंदरा या भूपाळीतून शाहिरी काव्य व प्रातःसमयीचे रम्य वातावरणाची जाणीव करुन देणे.

साध्य-शाहीर होणाजी बाळा यांचे शाहिरी काव्यातूनच प्रभात समईचे रम्य वातावरणाची जाणीव विद्यार्थ्यांना झाली.

कविता-४.उद्दिष्ट-स्फूर्ती कवितेतून केशवमुतांनी समाजातील रुढी, अन्याय, अत्याचाराला नाहीसे करण्याकरिता केलेल्या बंडाची विद्यार्थ्यांना जाणीव करणे.

साध्य-कवितेतून समाजातील अन्याय, अत्याचार कविच्या काव्य लेखनामुळे व समाजाला काव्यातून उद्बोधन केल्याने झाली हे विद्यार्थ्यांना कळून आले.

कविता-५.उद्दिष्ट-खेड्यातील रात्र कवितेतून बालकविंनी रेखाटलेल्या रात्रीचे भयानक चित्रणाची ओळख करुन देणे.

साध्य-पन्नास वर्षांपूर्वी व आजही अतिशय दुर्गम भागातील खेड्यातील परिस्थितीचे व रात्र कशी भयाकूल असते याची खात्री विद्यार्थ्यांना पटली.

Unit III:

प्रकरण- १.उद्दिष्ट- व्यावहारिक मराठीची आवश्यकता जीवन व्यवहारासाठी का आहे याची यथार्थता विद्यार्थ्यांना पटविणे.

साध्य-जीवन व्यवहारात व्यावहारिक मराठीची उपयुक्तता असल्याचे विद्यार्थ्यांना कळले तसेच अनेक व्यवहार क्षेत्रात व्यावहारिक मराठीची उपयुक्तता असल्याचे स्पष्ट झाले.

प्रकरण- २.उद्दिष्ट-भाषिक संवाद व्यवहाराच्या मूलतत्वांची ओळख व माहिती विद्यार्थ्यांना करुन देणे.

साध्य-भाषा हे संवादाचे माध्यम असून लेखन, वाचन, श्रवण व भाषण यातून भाषेचा संवाद व्यवहार चालतो हे कळले सोबतच विविध मूलतत्वांची ओळख विद्यार्थ्यांना झाली.

Department of Political Science
Course Objectives and Course Outcomes

Course Objectives

- To understand the basic concept and ideological orientations of Political Science discipline.
- To understand the processes and dynamics of Indian government and Politics.
- To understand the contribution of the main traditions of Indian Political Thought.
- To understand the contribution of the main traditions of Western Political Thinkers to Political Thought.

Course Outcomes

- Understood the basic concepts and ideological orientations of the Political Science discipline.
- Understood the processes and dynamics of Indian government and politics
- Came to know the contribution of the main traditions of Indian Political Thought.
- Understood the contribution of the main traditions of Western Political thinkers to political thought.

Department of Economics

Course Objectives and Course Outcomes

Unit – I

- Objective - To develop preliminary knowledge of Economic concepts for the understanding of Economics Nature, Definition, and Method of Economics Analysis.
- Outcome – Students learned preliminary knowledge of Economic concepts and definitions.

Unit – II

- Objective - To provide an orderly and objective way of thinking about Economic Demand & Supply Theory.
- Outcome- The students learned about the knowledge of Demand and Supply.

Unit – III

- Objective- To gain knowledge about Consumer Behavior Utility Analysis.
- Outcome- The Students gained the knowledge of Consumer Behavior and Utility Analysis

Unit – IV

- Objective –To explain core Economics- various factors of production.
- Outcome - Students learnt about the production function.

Department of English
Course Objectives and Course Outcomes
English Literature

Program Outcomes

- CO1. Comprehend the use of language and grammar in the given context.
- CO2. Demonstrate advanced critical thinking skills.
- CO3. Communicate in a variety of contexts and genres.
- CO4. Equipped with Listening, Speaking, Reading and Writing skills.
- CO5. Imbibe the nuances of analyzing a text and reproduce with proper interpretations.

Programme specific Outcomes (PSOs)

- PSO1. Availing job opportunities in translation, transformation and media.
- PSO2. Developing a critical attitude about literary studies
- PSO3. Instilling literary research attitude.

Course Objectives

- To understand the interrelationship between works of literature and society.
- To explain the nature of language and literature.
- To obtain the skill of appreciation for literary works.
- To imbue the skills of essay writing.
- To be able to illustrate the nature of literary form like one-act-play, travelogue, and short story.

Course Outcomes

- Understood the interrelationship between works of literature and society.
- Explained the nature of language and literature.
- Obtained the skill of appreciation for literary works.
- Imbued the skills of essay writing.
- Succeeded in illustrating the nature of literary form like one-act-play, travelogue, and short story.

Department of Sociology
Course Objectives and Course Outcomes

Introduction

Unit - I Understanding Sociology

Objective - To make students know in detail about Understanding Sociology.

Outcome - Students understood the concept of Understanding Sociology.

Unit – II Basic Concepts in Sociology

Objective - To Make Students Aware of Basic Concepts in Sociology.

Outcome - Students understood the concept of Basic Concepts in Sociology.

Unit - III Socialization

Objective - To Make Students Aware of Socialization.

Outcome - Students understood the concept of Socialization.

Unit – IV Social Structure

Objective - To make the students know in detail about Social Structure.

Outcome - Student understood the concept of Social Structure.

Department of History

Course Objectives and Course Outcomes

After successful completion of three-year Degree Programme in History a student should be able to know;

Programme Outcomes

- PO1: History has an unprecedented significance in human life.
- PO2: The study of history preserves culture.
- PO3: The study of history leads to Socio-Political awareness.
- PO4: Learn about world events.
- PO5: The study of History is important for competitive examination.
- PO6: Conversational skills come and understand the importance of human society.

Course Objectives

- To know the importance of culture gives you the ability to make decisions in yourself.
- To gain the ability to make decisions while living life.
- To gain employment opportunities through competitive examinations.
- To acquire moral values, devotional movement and Sufi sect.

Course Outcomes

- Knew the importance of culture gives you the ability to make decisions in yourself
- Gained the ability to make decisions while living life
- Received employment opportunities through competitive examinations.
- Acquired moral values, devotional movement and Sufi sect.

Department of Marathi

Course Objectives and Course Outcomes

Marathi Literature

Unit I:

तहान (कादंबरी)–

उद्दिष्ट–पाण्याच्या भीषण समस्येमुळे ग्रामीण जीवनातल्या मानवी भाव–भावनांचे आविष्करण करणे .

साध्य–ग्रामीण भागात पाणी टंचाईच्या दिवसात जनतेला कशा हालअपेष्टा सहन कराव्या लागतात याची सत्यता विद्यार्थ्यांना समजली.

Unit II:

साहित्यप्रकार–कथा व कविता–

उद्दिष्ट—कथा व कविता या साहित्य प्रकाराची ओळख व माहिती विद्यार्थ्यांना देणे.

साध्य—कथा व कविता हे साहित्यप्रकार कसे भिन्न आहेत याबद्दल विद्यार्थ्यांना कळून आले.

Semester-II
Course Objectives and Course Outcomes
Compulsory English

Course Objectives

- To study lessons based on the themes of humor, emotional bonding, ethics and values.
- To motivate themselves even in adverse situations by reading successful people's life sketches.
- To prioritize life's needs over wants.
- To apply grammar lessons to spoken English.
- Grasp the nuances of learning a foreign language.

Course Outcomes

- Studied lessons based on the themes of humor, emotional bonding, ethics and values.
- Motivated themselves even in adverse situations through reading their lives.
- Applied grammar lessons to spoken English.

Course Objectives and Course Outcomes
Compulsory Marathi

(साहित्यरंग.भाग-1)

Unit I:

प्रकरण— ६.उद्दिष्ट—इरावती कव्याचे व्यक्तिचित्रणाची ओळख पाठाच्या आधारे करून देणे.

साध्य—पु.ल. देशपांडे यांनी इरावती कव्याचे ज्ञान, लेखन व संशोधन याबद्दल दिलेल्या माहितीमूळे विद्यार्थ्यांना कव्याची ओळख पटली व माहिती मिळाली.

प्रकरण— ७.उद्दिष्ट—संस्कार पाठातून नायकाच्या मनावर झालेल्या संस्काराचे चित्रण करून विद्यार्थ्यांच्या मनावर योग्य संस्काराची रूजवणूक करणे.

साध्य—हिंदू मुस्लिम असा जातीभेद असूनही वा.कृ. चोरघडे यांना शालेय जीवनापासून सलमा हीने योग्य असे संस्कार दिले याची विद्यार्थ्यांना जाणिव झाली.

प्रकरण— ८.उद्दिष्ट—ग्रेस पाठातून वेगळ्या व्यक्तिमत्त्वाची ओळख विद्यार्थ्यांना करून देणे.

साध्य—ग्रेस या दुर्बोध व आगळ्या वेगळ्या व्यक्तिचित्रणाची मधुकर केचे यांनी करून दिलेली ओळख विद्यार्थ्यांना माहिती झाली.

प्रकरण—९.उद्दिष्ट—जात चोरीच्या आपत्तीमुळे कोणते संकटे येतात याची जाणीव विद्यार्थ्यांना करून देणे.

साध्य—बाबुराव बागुल यांनी आपली अस्पृश्य महार ही जात लपविल्यामुळे त्यांना आलेला अनुभवाचे वर्णन विद्यार्थ्यांना समजून आले.

प्रकरण—१०.उद्दिष्ट—पुर्णिया या बिहार राज्यातील मागसलेल्या जिल्ह्यातील लोकांच्या दुःखी कष्टी जीवनाची माहिती विद्यार्थ्यांना देणे.

साध्य—अनिल अवचट यांनी पूर्णियामधून रेखाटलेले स्यांचे बदिस्त जीवन, शाळा, नोकऱ्यांचा प्रश्न, राजकीय परिस्थिती, मजुरांचे हलाकीचे जीवन, उपासमारी इ.ची माहिती विद्यार्थ्यांना मिळाली.

Unit II:

कविता— ६.उद्दिष्ट—मुक्त पक्षी या कवितेतू पिंजऱ्यातील पक्षी स्वातंत्र का नाकारतो याची माहिती देणे.

साध्य—गुलामीची सवय जडल्यामुळे पक्षी पिंजऱ्यातून मुक्त केल्यावरही स्वातंत्र नाकारतो याची ज्ञान विद्यार्थ्यांना प्राप्त झाले.

कविता—७.उद्दिष्ट— जीवन मरणाबद्दल बहिणाबाईंनी केलेल्या चिंतनाची सार्थकता पटवून देण.

साध्य—जन्ममृत्यु विषयी कवयित्रीने कवितेत प्रगट केलेले विचार मानवी जीवनाची सार्थकता पटवून देतात याची विद्यार्थ्यांना खात्री पटली.

कविता—८.उद्दिष्ट—राष्ट्रसंतांना गरीबाच्या झोपडीमधील सुखाची माहिती विद्यार्थ्यांना देणे

साध्य—महालातील सुखापेक्षा लहानशा झोपडीतील सुख हे महान असल्याची प्रचिती कवितेच्या भावार्थावरून विद्यार्थ्यांना आली.

कविता—९.उद्दिष्ट—माणसाच्या मनातील मोठेपना नाहिसा होण्याची कविची इश्वराकडे केलेली मागणीचे ज्ञान विद्यार्थ्यांना देणे.

साध्य—कविने आपल्या जीभेवरचा लोभ जळू देण्यासाठी व मी पणाचे साम्राज्य नाहीसे होण्याची कविची भावना विद्यार्थ्यांना समजली.

कविता—१०.उद्दिष्ट—कुसुमाग्रजांच्या कवितेतून मानवी सामर्थ्य निसर्गावर कसे मात करते याची ओळख विद्यार्थ्यांना करून देण.

साध्य—कवितेतील नायकाचा गंगा नदीच्या पुरामुळे संसार उध्वस्त होऊनही साराच्या आर्शिवादाची थाप मागणारा नायक प्रतिकूल परिस्थितीवर मात करून संसार उभा करतो याची विद्यार्थ्यांना प्रेरणा मिळाली.

Unit III:

प्रकरण— ३.उद्दिष्ट—पत्रलेखनाचे स्वरूप, पत्राचे प्रकार, पत्रलेखाचे घटक, वैशिष्ट्ये व पत्राचा नमूना विद्यार्थ्यांना समजावून देणे.

साध्य—विद्यार्थ्यांना पत्राचे रूप कसे असते, घटक कोणते, खजगी पत्रे व कार्यालयीन पत्रे कशी लिहावीत याचे कौशल्य व ज्ञान प्राप्त झाले.

प्रकरण— ४.उद्दिष्ट—सारांशलेखन कसे करावे व सारांश लेखन करतांना कोणती काळजी घ्यावी व सारांशलेखनाचे फायदे याविषयी विद्यार्थ्यांना माहिती देणे.

साध्य—विद्यार्थ्यांना सारांशलेखन करण्याची माहिती मिळाली तसेच दिलेल्या सारांशाचे एक तृतियांश लेखन करण्याचे कौशल्य प्राप्त होऊन सारांशलेखनाचे फायदे समजले.

Department of Political Science Course Objectives and Course Outcomes

Course objectives

- To understand the processes and dynamics of the Indian government and politics.
- To understand the contribution of the main traditions of Indian Political Thought.

- To understand the contribution of the main traditions of Western Political Thinkers to Political Thought.

Course Outcomes

- Familiarized with the basic concepts and ideological orientations of the Political Science discipline.
- Exposed to the processes and dynamics of Indian government and politics.
- Made to understand the contribution of the main traditions of Indian Political Thought.
- Made to understand the contribution of the main traditions of Western Political thinkers to Political thought.

Department of Economics Micro Economics Theory -II

Course Objectives and Course Outcomes

Unit – I: Cost and Revenue Analysis Cost of Production:

Objective- TO explain the Kinds of Cost and Revenue Analysis Cost of Production

Outcome –Explained the knowledge of Cost and Revenue Analysis.

Unit – II: Market Structure and Perfect Competition Market

Objective- TO explain major types of market Structure and Identify Characteristics of Perfect Competition.

Outcome –Received assignments from the students those are coherent, organized, concise, grammatically correct and well-presented.

Unit – III: Monopoly and Imperfect Competition Market

Objective- TO identify and discuss the key concepts of Monopoly and Imperfect Competition Market.

Outcome –Identified economic theory in the Monopoly and Imperfect Competition

Unit – IV: Factors Pricing and Statistics for Economics Factors Pricing:

Objective- TO explain the contribution of Factors of production.

Outcome – Students learned about the factor of production.

English Literature

Course Objectives and Course Outcomes

Course Objectives

- To make the students familiar with literary texts in a given historical, geographical, and cultural context.
- To apply critical theories to the reading of multiple genres of literature.
- To make the students able to identify critical ideas and themes.

- To make the students able to write analytically with the help of language competencies.

Course Outcomes

- Students will be familiar with literary texts in a given historical, geographical, and cultural context
- Students should be able to apply critical theories to the reading of multiple genres of literature
- Students should be able to identify and analyze the critical ideas and themes
- Students should be able to write analytically with the help of language competencies
- Students should be able to imbibe, ethical, moral, and cultural values

Department of Sociology Course Objectives and Course Outcomes

Themes and Perspectives

Unit - I Culture and Society

Objective - To Make the students know in detail about culture and society

Outcome - Students understood the concept of culture and society.

Unit - II Social Deviation and Social Control

Objective – To make the students aware of social deviation and social control.

Outcome – Students understood the concept of social deviation and social control.

Unit - III Social Stratification and Social Mobility

Objective - To Make Students know in detail about Social Stratification and Social Mobility.

Outcome – Students understood in detail about Social Stratification and Social Mobility.

Department of History Course Objectives and Course Outcomes

History of India (1526 - 1761)

Course Objectives

- To understand how the Mughal power was established in India.
- To learn information about Sher Shah Suri and the Mughal administration.

- To get information about Chhatrapati Shivaji and Mughal relationship war took place.
- To understand the Panipat Third War and the arrival of the British.

Course Outcomes

- Understood how the Mughal power was established in India.
- Learned information about Sher Shah Suri and the Mughal administration.
- Student got information about Chhatrapati Shivaji and Mughal relationship war took place.
- Understood the Panipat Third War and the arrival of the British.

Department of Marathi Marathi Literature Course Objectives and Course Outcomes

Unit I:

अश्रुंची झाली फुले- नाटक-

उद्दिष्ट-अश्रुंची झाली फुले या नाटकातून मानवी जिवनातील कौटुंबिक,सामाजिक व वैज्ञानिक क्षेत्रातील संघर्षप्रवण परिस्थितीविषयी विद्यार्थ्यांना बोध करणे.

साध्य-वसंत कानेटकरांनी नाटकाच्या कथानकातून व रेखाटलेल्या पात्रांतून मानवी जीवन कसे संघर्षाविले आहे याची माहिती विद्यार्थ्यांना मिळाली.

Unit II:

साहित्यप्रकार-कादंबरी, चरित्र,आत्मचरित्र.

उद्दिष्ट-कादंबरी, चरित्र,आत्मचरित्र.या साहित्य प्रकाराची ओळख व माहिती विद्यार्थ्यांना देणे.

साध्य-कादंबरी, चरित्र,आत्मचरित्र.या साहित्य प्रकाराची ओळख व माहिती विद्यार्थ्यांना झाली.

Department of English Compulsory English Course Objectives and Course Outcomes

Unit I: Objective-Making students aware of the importance of Honesty.

Outcome-Students tried to examine and applied through the various activities carried out in the class.

Unit II: Objective- Making students realize the beauties of nature and sublime.

Outcome-Students tried to apply the values of nature and the sublime.

Unit III: Objective- Making students understand the social evils of society and the values of Humanity.

Outcome-Students were exposed to the social evils of society through discussion.

Unit IV: Objective-Grammatically correct usage of Narration and Punctuation.

Outcome-Students solved the examples of Narration and Punctuation.

Unit V: Objective-To create the ability to use English for the purpose of communication.

Outcome-Students attempted to use English for the purpose of communication in the Class.

Department of Marathi

Course Objectives and Course Outcomes

Compulsory Marathi

साहित्य संवाद,भाग,२

Unit I:

प्रकरण -१.उद्दिष्ट-तेराव्या षतकातील दृष्टांतपाठातील गद्य भाषाशैली, श्रीचक्रधरस्वामीचे चरित्र, महानूभाव पंथा विषयी माहिती देणे.

साध्य-दृष्टांतपाठातील गद्य भाषाशैली, श्रीचक्रधरस्वामीचे चरित्र, महानूभाव पंथाचे समाजाला दिलेले योगदान विद्यार्थ्यांना समजून आले.

प्रकरण -२.उद्दिष्ट-श्री पुरुष तुलना या पाठातून ताराबाई षिंदे हीने पारतंत्र्यांच्या काळात स्त्रियांच्या नषिबी येणाऱ्या दुर्गुणांची जाणीव करून देणे.

साध्य-सर्व प्रकारचे दुर्गुण स्त्रियांतच असतात या पुरुषांच्या पूर्वग्रहदूषित विचारांची विद्यार्थ्यांना माहिती प्राप्त झाली.

प्रकरण -३.उद्दिष्ट-राखरी ववता होण्यासाठी प्र.के.अत्रे यांनी सांगितलेला अनुभव विद्यार्थ्यांना सांगणे.

साध्य-विद्यार्थ्यांनी राखरी ववता होण्यासाठी अत्रे यांच्या अनुभवाचा बोध घेतला.

प्रकरण -४.उद्दिष्ट-पंढरपूर व विठ्ठलाचे दर्शनाची माहिती विद्यार्थ्यांना करून देणे.

साध्य -पंढरपूर व पांडुरंगाचे संपूर्ण वर्णन तेथील भौगोलिक परिस्थितीची माहिती विद्यार्थ्यांना प्राप्त झाली.

प्रकरण-५.उद्दिष्ट-राष्ट्रसंताच्या मते शिक्षक हाच राष्ट्राचा भाग्यविधाता असल्याची खात्री विद्यार्थ्यांना करून देणे.

साध्य-शिक्षकाचे विद्यार्थी, समाजाप्रती केलेल्या संपूर्ण कार्याची व वैशेषिक कार्याची जाणीव विद्यार्थ्यांना कळली.

Unit II:

कविता -१.उद्दिष्ट-संत नामदेवांनी श्रीविठ्ठलाचे वर्णन, विठ्ठलभक्तित्वे व नामस्मरणाचे महात्म्य विद्यार्थ्यांना सांगणे.

साध्य-अभंगाच्या निपनातून विठ्ठलाच्या अनंत लावण्याची षोभा, विठ्ठलभक्तित्वे व नामस्मरणाचे महात्म्य विद्यार्थ्यांना कळले.

कविता -२.उद्दिष्ट-मारोपंतानी सत्संगीताचा वर्णन केलेला महिमा सांगणे.

साध्य-सत्संगीत समाजजिवनाला उद्बोधन करण्याचे सामर्थ्य आहे याची विद्यार्थ्यांना माहिती मिळाली.

कविता -३.उद्दिष्ट-भला जन्म हा तुला लाभला यातून राम जोषींनी सांगितलेल्या मानवी जीवनाचे सार्थकत्व पटविणे.

साध्य-उपदेखपर लावणीतून मानवी जीवनाची सार्थकता विद्यार्थ्यांना पटली.

कविता -४.उद्दिष्ट-षेतकरी-कष्टकऱ्यांची जीवनगाथा व परीस्थितीचे वर्णन करणे.

साध्य-विद्यार्थी ग्रामीण भागातला असून षेतकऱ्यांच्या परीस्थितीची जाणीव झाली.

कविता- ५.उद्दिष्ट-कवी अनिलांच्या विराणीतून कवी मनाच्या उदासीनतेचे दर्शन घडविणे.

साध्य-कविला लाभलेल्या दुःखामुळे कवित्या मनाला उदासिनता प्राप्त झाली याची विद्यार्थ्यांना प्रचिती आली.

Unit III:

प्रकरण - १.उद्दिष्ट-इतिवृत्त लेखन, प्रकार,पध्दती व लेखनाची काळजी याविषयी विद्यार्थ्यांना माहिती देणे.

साध्य -इतिवृत्त म्हणजे सभेची नोंद, प्रकार पध्दती व लेखन करतांना घ्यावयाची काळजी याची विद्यार्थ्यांना माहिती मिळाली.

प्रकरण - २.उद्दिष्ट-प्रसारमाध्यमे आणि वृत्तलेखन याविषयी विद्यार्थ्यांना माहितीचे विप्लेखन करणे.

साध्य-दृक श्राव्य प्रसारमाध्यमांच्याद्वारे बातमी, बातमीचे लेखन व वृत्तपत्रीय लेखन कसे केले जाते याची माहिती विद्यार्थ्यांना झाली.

Department of Political Science

Course Objectives and Course Outcomes

Course Objectives

- To explain the vital contemporary emerging issues of center-state relations, political parties, emergence of new leadership at different levels, demand for autonomy movement, ethnic conflicts, etc.
- To understand the strengths and weakness of Indian political processes, both in terms of their effectiveness in responding to public policy needs.
- To understand the current political issues in the context of wider debates about democratic life in India and the capacity of political institutions
- To understand the basic concept and issues concerning human rights and challenges.

Course Outcomes

- Familiarized with the vital contemporary emerging issues of center-state relations, political parties, the emergence of new leadership at different levels, demand for autonomy movement, ethnic conflicts, etc.
- Analyzed the strengths and weakness of Indian political processes, both in terms of their effectiveness in responding to public policy needs and retaining constitutional protections.
- Understood the current political issues in the context of wider debates about democratic life in India and the capacity of political institutions.
- Acquainted with a basic understanding of concepts and issues concerning the Right to Information Act, Human Rights, and Challenges.

Department of Economic

Course Objectives and Course Outcomes

Unit – I Introduction to Macro Economics

Objective – To discuss the Introduction of Macro Economics.

Outcomes – Students understand the concept of Macro Economics.

Unit – II National Income

Objective – To explain the concept of National income.

Outcome – Students understood the various concept of National income.

Unit – III **Money and Value of Money**

Objective – To evaluate the value of money and theories of the Value of Money.

Outcome – Students learned the theories of Value of Money.

Unit – IV **Output and Employment**

Objective – To introduce the theory of Employment.

Outcome- Students learnt the theory of Employment.

Department of English

Course Objectives and Course Outcomes

English Literature

Unit I:

Objective- Making students aware of the importance of dreams, Rules, Thoughts and Club Life.

Outcome-Students attempted to preserve the importance of dreams, Rules and Thoughts.

Unit II:

Objective- Making students realize aesthetic satisfaction.

Outcome-Students realized aesthetic satisfaction.

Unit III:

Objective- Making students understand the Novel, the Essay, and the Short story.

Outcome- Students understood the Novel, the Essay, and the Short Story.

Unit IV:

Objective-Making students understand the Literary Terms.

Outcome-Students understood the Literary Terms and their usage.

Department of Marathi

Course Objectives and Course Outcomes

Marathi Literature

Unit I:

तुकारामाचे अभंग-

उद्दिष्ट-संत तुकारामाच्या निवडक खंभर अभंगाच्या आधारे संत तुकारामाचे जीवन कार्य, काव्यशैली व तत्कालीन सामाजिक परिस्थितीची जाणीव विद्यार्थ्यांना करून देणे.

साध्य-संत तुकारामांनी अभंगाच्या माध्यमातून समाजसुधारणेसाठी केलेल्या उद्बोधनाचे मर्म विद्यार्थ्यांना समजून आले.

Unit II:

उद्दिष्ट-काव्यशास्त्र परिचय यातून काव्याची लक्षणे व काव्याच्या प्रयोजन काय याची माहिती विद्यार्थ्यांना देणे.

साध्य-काव्याची लक्षण व काव्याची प्रयोजने कोणती याचे ज्ञान व माहिती विद्यार्थ्यांना प्राप्त झाली

Department of Sociology
Course Objectives and Course Outcomes
Foundations of Social Thought

Unit - I Emergence of Sociology as a Discipline

Objective - To Make the students know in detail about the emergence of sociology as a discipline.

Outcome - Students understood the concept of the emergence of sociology as a discipline

Unit - II Founders of Sociology I

Objective - Students understood the concept of Founders of Sociology-I (August Comte, Herbert Spencer,)

Outcome - Students understood the concept of Founders of Sociology-I (August Comte, Herbert Spencer)

Unit – III Founders of Sociology II

Objective - Students understood the concept of Founders of Sociology-II (Charles of Horton Cooley, Emile Durkheim)

Outcome - Students understood the concept of Founders of Sociology-II(Charles of Horton Cooley, Emile Durkheim)

Unit - IV Founders of Sociology III

Objective - Students understood the concept of Founders of Sociology-III (Karl Marx, Max Weber)

Outcome -Students understood the concept of Founders of Sociology-II(Karl Marx, Max Weber)

Department of History
Course Objectives and Course Outcomes
History of India (1764 - 1884)

Course Objectives

- To study Battle of Buxar and English policy.
- To understand Kayamdhara Methods, Ryotwari , and Lord Wellesley.
- To understand the uprising of 1857 (independent war) results.
- To understand how did nationalism emerge in India?

Course Outcomes

- Studied the Battle of Buxar and how the British implemented their policy in India
- Gained information about working methods, Kaymdhara, ryotwari and Mahalwari and Lord Wellesley deployment forces.
- The uprising of 1857 (independent war) result was known
- Learned how Nationalism emerged in India

Department of Marathi
Course Objectives and Course Outcomes
Marathi Literature

Unit I:

उद्दिष्ट-कुसुमाग्रजांच्या रसयात्रा कविता संग्रहाच्या आधारे विविध प्रकारच्या कवितांची ओळख व माहिती विद्यार्थ्यांना देणे.

साध्य-कुसुमाग्रजांच्या कवितासंग्रहातून सामाजिक कविता, राजकीय, राष्ट्रीय कविता, प्रेम कविता, निसर्ग कविता व तत्वज्ञानपर कवितांची माहिती विद्यार्थ्यांना झाली.

Unit II:

उद्दिष्ट-काव्यशास्त्र परिचय यातून काव्यकारण व षड्दशवती याविषयी विद्यार्थ्यांना माहिती देणे.

साध्य-विद्यार्थ्यांना काव्य निर्मितीचे कारण व षड्दशवती अभिदा, व्यंजना व लक्षणा या षड्दशवतीची माहिती प्राप्त झाली.

Semester-IV

Department of English
Course Objectives and Course Outcomes
Compulsory English

Unit I: Objective- Making students aware of the importance of faith and friendship

Outcome- Students understood the value of friendship.

Unit II: Objective- Making students realize about discipline and struggle.

Outcome- Students tried to apply the discipline and struggle in their lives.

Unit III: Objective- Making students understand the presence of the mind.

Outcome- Students were put through various activities to get the feel of it.

Unit IV: Objective- Grammatically correct usage of Tense and Voice.

Outcome- Students tried to solve the examples of Tense and Voice.

Unit V: Objective- To create the ability to use English for the purpose of communication.

Outcome- Students attempted to use English for the purpose of communication in the Class.

Department of Marathi
Course Objectives and Course Outcomes
Compulsory Marathi
साहित्यरंग.भाग.2

Unit I:

- प्रकरण - ६.उद्दिष्ट-**मराठी माघ महिण्यातील मायावीपणाचे वर्णन विद्यार्थ्यांना करून देणे.
साध्य-मराठी माघ महिण्यातील निसर्गातील विविध बदलाचा विद्यार्थ्यांना अनुभव आला.
- प्रकरण - ७.उद्दिष्ट-**तपस्वीव्यवृत्ती कसा असतो याचे चित्रण विद्यार्थ्यांना करून देणे.
साध्य-पु.भा. भावे यांनी तपस्वीचे केलेले व्यवृत्तीचित्रण ऐकून विद्यार्थ्यांना तपस्वी कसा असतो याची जाणिव झाली.
- प्रकरण - ८.उद्दिष्ट-**संताचे विचार आत्मसात करून मानसिक परिवर्तन घडून येण्याची आवश्यकता.
साध्य-संताचे विचार आत्मसात केल्याने परिवर्तनाची नवी पहाट उगवत असल्याची जाणिव विद्यार्थ्यांना झाली.
- प्रकरण -९.उद्दिष्ट-**लपलेला तारा यातून अवकाशातील विविध ताऱ्यांची माहिती विद्यार्थ्यांना करून देणे.
साध्य-ग्रहमालेतील विविध ग्रह व तारे तसेच डायसनचा गोळा याची माहिती विद्यार्थ्यांना झाली.
- प्रकरण -१०.उद्दिष्ट-**समाजपरिवर्तनातून सामाजिक समता प्रस्थापीत करण्याचे डॉ. आंबेडकरांचे विचार विद्यार्थ्यांना सांगणे.
साध्य-डॉ. आंबेडकरांनी सांगितलेल्या सामाजिक समतेच्या विचाराचा बोध विद्यार्थ्यांनी घेतला.

Unit II:

- कविता - ६.उद्दिष्ट-**जनसामान्यांचे अनुभव कसे असतात याची कवितेतून माहिती देणे.
साध्य-कवित्या संघर्षप्रवण प्रवृत्तीचा अनुभव एका नव्या संघर्षात या कवितेतून विद्यार्थ्यांना आला.
- कविता -७.उद्दिष्ट-**स्मरण या कवितेतून जीवनाचे अंतिम सत्य सांगणे.
साध्य-सुरेश भट्टांनी मृत्यु हेच जीवनाचे अंतिम सत्य असल्याची जाणिव विद्यार्थ्यांना झाली.
- कविता - ८.उद्दिष्ट-**मानवी मनाचा निसर्गाशी असलेला संबंध उलगडणे.
साध्य-निसर्गाशी असलेले अतूट नाते व त्याच्याशी मानवी मनाचा साधलेला संवाद व्यवृत्त झाल्याची विद्यार्थ्यांना माहिती मिळाली.
- कविता - ९.उद्दिष्ट-**मानवी जीवनाच्या विविध टप्प्यावर वंचितांच्या वाट्याला आलेल्या दुःखाची साक्ष पटविणे.
साध्य-मानवी जीवनाच्या विविध टप्प्यावर वंचितांच्या वाट्याला आलेल्या दुःखाची विद्यार्थ्यांना साक्ष पटली.
- कविता- १०.उद्दिष्ट-**आदिवासिंच्या न्यायासाठी कविने मागीतलेल्या मागणीचा विद्यार्थ्यांना मार्ग सांगणे.
साध्य-आदिवासिंच्या न्याय व हक्कासाठी कविने मागीतलेल्या मागणीचा विद्यार्थ्यांनी मार्ग समजून घेतला.

Unit III:

- प्रकरण- ३.उद्दिष्ट-**भाषांतर या शास्त्र व कलेची जाणिव विद्यार्थ्यांना करणे.
साध्य-एका भाषेचे दुसऱ्या भाषेत भाषांतर करण्याची कला विद्यार्थ्यांना अवगत झाली.
- प्रकरण- ४.उद्दिष्ट-**मुलाखत लेखनाचे स्वरूप स्पष्ट करणे.
साध्य-व्यक्तिमत्त्वाचे दर्शन घडविणे हा मुलाखतीचा मुख्य उद्देश असतो हे विद्यार्थ्यांना कळले.

Department Of Political Science
Course Objectives and Course Outcomes

Course Objectives

- To explain the vital contemporary emerging issues of center-state relations and political parties, the emergence of the new leadership at different levels, demand for autonomy movement, ethnic conflicts etc.
- To understand the strengths and weakness of Indian political processes, both in terms of their effectiveness in responding to public policy needs.
- To understand the current political issues in the context of wider debates about democratic life in India and the capacity of political institutions.
- To understand the basic concept and issues concerning human rights and challenges.

Course Outcomes

- Familiarized with the vital contemporary emerging issues of center-state relations, political parties, the emergence of new leadership at different levels, demand for autonomy movement, ethnic conflicts etc.
- Analyzed the strengths and weakness of Indian political processes, both in terms of their effectiveness in responding to public policy needs and retaining constitutional protections.
- Understood the political issues in context of wider debates about democratic life in India and the capacity of political institutions.
- Acquainted with a basic understanding of concept and issues concerning Right to Information Act, Human Rights and Challenges.

Department of Economics

Course Objectives and Course Outcomes

Unit -I: Commercial and Central Bank Commercial Banks:

Objective – To explain the function of the Commercial and Central Bank and why it is importance.

Outcome – Students learned the function of the Commercial and Central Bank and why it is important.

Unit –II: RBI and Innovation in Banking Reserve Bank of India:

Objective - Introduce RBI and innovation in Banking Sector.

Outcome – Students learnt about the structure of RBI and its function.

Unit -III: Financial Market Money Market:

Objective – To define Financial Market.

Outcome – Students understood the function of Financial Market.

Unit –IV: Health Economics and Statistics for Economics Health Economics:

Objective – To explain the importance of Health Economics and Statistics.

Outcome – Students understood the knowledge of Health Economics and Statistics

Department of English
Course Objectives and Course Outcomes
English Literature

Unit I: Objective-Making students conscious of the various issues of Indian society.

Outcome-Students attempted to understand the various issues of Indian society

Unit II: Objective- Making students realize revolution and its effects.

Outcome-Students realized equality, revolution, and their effects.

Unit III: Objective- Making students understand the biography, autobiography and Criticism.

Outcome- Students understood the biography, autobiography and Criticism.

Unit IV: Objective- Making students understand the Literary Terms.

Outcome- Students understood the Literary Terms and their usage.

Department of Sociology

Course Objectives and Course Outcomes
Indian Sociological Tradition

Unit - I Theoretical Roots of Caste in India

Objective - To make the students aware of the Theoretical Roots of Caste in India (B.R. Ambedkar, G.S. Ghurye)

Outcome - Student understood the concept of Founders of Theoretical Roots of Caste in India (B.R. Ambedkar, G.S. Ghurye)

Unit - II Social Change from Indian Perspective

Objective - To make the students aware of Social Change from Indian Perspective (M.N. Shrinivas, D.P.Mukharjee)

Outcome - Student understood the concept of Social Change from Indian Perspective (M.N. Shrinivas, D.P.Mukharjee)

Unit - III Indian Society and Contemporary Change

Objective - To make the students aware of Indian Society and Contemporary Change (R.K. Mukharjee, S.C. Dube)

Outcome - Student understood the concept of Indian Society and Contemporary Change (R.K. Mukharjee, S.C. Dube)

Unit - IV Gender and Society in India

Objective - To Make Students Aware of Gender and Society in India (Tarabai Shinde, Jyotiba Fule and Savitribai Fule)

Outcome - Student understood the concept of Gender and Society in India (Tarabai Shinde, Jyotiba Fule and Savitribai Fule)

Department of History
Course Objectives and Course Outcomes

History of India (1885 -1947)

Course Objectives

- To study How the National Congress was formed.
- To understand what was the role of Jhal and Mawal.
- To study non-cooperation and civil disobedience movements.
- To learn the Indian Independence Mountaineering Scheme.

Course Outcomes

- Learned about the establishment of the National Congress.
- Understood the role of Jhal and Mawal.
- Information was received about the non-cooperation and civil disobedience movements.
- Gained detailed knowledge of how India became independent.

Department of Marathi
Course Objectives and Outcomes
Marathi Literature

Unit I:

उद्दिष्ट- कुसुमाग्रजांच्या रसयात्रा कविता संग्रहाच्या आधारे विविध प्रकारच्या कवितांची ओळख व माहिती विद्यार्थ्यांना देणे.

साध्य-कुसुमाग्रजांच्या कवितासंग्रहातून सामाजिक कविता, राजकीय, राष्ट्रीय कविता, प्रेम कविता, निसर्ग कविता व तत्त्वज्ञानपर कवितांची माहिती विद्यार्थ्यांना झाली.

Unit II:

उद्दिष्ट-काव्यषास्त्र परिवय यातून काव्यकारण व षड्दषवती याविषयी विद्यार्थ्यांना माहिती देणे.

साध्य- विद्यार्थ्यांना काव्य निर्मितीचे कारण व षड्दषाच्या अभिदा, व्यंजना व लक्षणा या षड्दषवतीची माहिती प्राप्त झाली.

Department of Marathi
Course Objectives and Course Outcomes
Compulsory Marathi

Unit I:

प्रकरण -१.उद्दिष्ट-तीळाचरित्रातून गोविंदप्रभूचे व्यक्तीमत्त्व व विवाहपध्दतीची माहिती विद्यार्थ्यांना देणे.

साध्य-तीळाचरित्राचे स्वीकारु या लीळेतून गोविंदप्रभूचे चरित्र, विवाहाची पध्दती व प्राचीन काळातील खाद्यापदार्थाची माहिती विद्यार्थ्यांना प्राप्त झाली.

प्रकरण -२.उद्दिष्ट-आगरकरांचा सुधारक काढण्याचा कोणता हेतू होता याची जाणीव वरुन देणे.

साध्य-अज्ञानी भारतीय समाजव्यवस्थेला सज्जान करण्याच्या हेतून आगरकरांनी सुधारक वृत्तपत्र काढला याची जाणीव विद्यार्थ्यांना झाली.

प्रकरण -३.उद्दिष्ट-युगाला आकार देणारे आमही काळपुरुष आहेत याची विद्यार्थ्यांना साक्ष पटविणे.

साध्य-विद्यार्थ्यांनी विनोबा भावेनी सांगितलेल्या सृष्टीच्या दानाचे महत्त्व ओळखून महत्त्व लक्ष्यात घेतले.

प्रकरण -४.उद्दिष्ट-महाभारतातील मयसभेचे वर्णन व माहिती विद्यार्थ्यांना करुन देणे.

साध्य -खांडव वन तेथील भौगोलिक परिस्थिती व पांडवांची मयसभा याची माहिती विद्यार्थ्यांना प्राप्त झाली.

प्रकरण -५.उद्दिष्ट-किडलेली माणसं या कथेतून माणसाच्या क्षुद्र विचाराचे दर्शन विद्यार्थ्यांना करुन देणे.

साध्य-मानवी जीवनाचे दुःख व विचाराची क्षुद्रता यांची अनुभूती विद्यार्थ्यांना आली

प्रकरण - ६.उद्दिष्ट-चक्र या कथेतून महाभारतातील द्रौपदी या स्त्रीचे चित्रण विद्यार्थ्यांना माहित करून देणे.
साध्य-महाभारतातील द्रौपदीच्या मनातील बूढ वगुंतागुंतीचे भावनीक प्रसंगाची माहिती विद्यार्थ्यांना प्राप्त झाली.

प्रकरण - ७.उद्दिष्ट-पक्षीगान पाठातून पक्ष्यांच्या सौंदर्याचे दर्शन घडविणे.
साध्य-पक्षीगान मधून विविधपक्षी, पक्ष्यांची घरटी, त्यांची पिल्ले यांची माहिती व ओळख विद्यार्थ्यांना झाली.

प्रकरण - ८.उद्दिष्ट-अन्वरषा फकीर या मुस्लीम व्यक्तीमत्वाची ओळख विद्यार्थ्यांना करून देणे.
साध्य-लहान मुले, स्त्रीया, माणसे व आजुबाजूच्या गावातील जनतेसाठी उपयुक्त असे अन्वरषा फकीरचे व्यक्तिमत्त्व असल्याचे विद्यार्थ्यांना कळून आले.

प्रकरण -९.उद्दिष्ट- दाभोलकरांच्या अंधश्रद्धा निर्मूलनाचे कार्याची माहिती विद्यार्थ्यांना करून देणे.
साध्य-वैज्ञानिक दृष्टिकोण व वारशीय विचार पध्दतीने अंधश्रद्धा निर्मूलन करण्याचे घ्येय दाभोलकरांचे होतेयाची माहिती विद्यार्थ्यांना झाली.

प्रकरण -१०.उद्दिष्ट-महिला ग्रामपंचायतीच्या निवडणुकीचे चित्रण विद्यार्थ्यांना सांगणे.
साध्य-ग्रामीण भागातील ग्रामपंचायत मधील निवडणुकीची माहिती व परिस्थितीची जाणीवविद्यार्थ्यांना आली.

न्दपज प्ळ

कविता - १.उद्दिष्ट-संत तुकारामांनी अंभगाच्या आधारे समाजजीवनाचे वर्णन केलेले चित्रण विद्यार्थ्यांना सांगणे.
साध्य-अंभगाच्या आधारे तत्कालीन सामाजिक परिस्थितीची जाणीव विद्यार्थ्यांना झाली.

कविता -२.उद्दिष्ट-व्हाहिर प्रभाकरांनी केलेले पंढरीवर्णन वर्णन करणे व महत्त्व प्रतिपादन करणे.
साध्य-विठ्ठल, रुविमणी, व पंढरपूर नगरी, भिमाटट याची विद्यार्थ्यांना माहिती मिळाली.

कविता - ३.उद्दिष्ट-चाफा या कवितेतून शुध्द प्रेमाचे भाववर्णन करणे.
साध्य-साधे प्रेम व आंतरिक शुध्द प्रेमाची सार्थकता विद्यार्थ्यांना पटली.

कविता - ४.उद्दिष्ट-ध्येय आणि परिस्थितीचा दोन्हीही ओढल्या जाणाऱ्या जीवाची ओढताण वर्णन करणे.
साध्य-कळा ज्या लागल्या जीवा यातून ज्याचे दुःख त्यालाच सहन करावे लागते याची जाणीव विद्यार्थ्यांना झाली.

कविता- ७.उद्दिष्ट-समाधान कवितेतून नायकाच्या वाट्याला आलेल्या कष्टपद जीवनाचे दर्शन घडविणे.
साध्य-कविता त्याच्या पत्निचा प्रेमळ सहवास व निसर्गरम्य परिसरामुळे जीवन सुसह्य वाटते याची साक्षा विद्यार्थ्यांना पटली.

कविता - ६.उद्दिष्ट-ही निळी पांढरी कवितेतील षरद ऋतूतील दुपारचे वर्णन करून देणे.
साध्य-झंडिय संतानी केलेलीषरद ऋतूतील उन्हाची माहिती विद्यार्थ्यांना प्राप्त झाली.

कविता -७.उद्दिष्ट-दोन ज्योती यातून कविने वर्णन केलेल्या दोन ज्योतींचा उलघडा करणे .
साध्य-एक दुःखाची ज्योत लाल असते व दुसरी दुःखाची ज्योत काळी असून तीचे दुःख कायम टिकणारे असते याची जाणीव विद्यार्थ्यांना झाली.

कविता - ८.उद्दिष्ट-पाऊस कवितेतून स्त्री मनाच्या विविध भावावस्था विद्यार्थ्यांना उलघडून दाखविणे .
साध्य-ग्रेस कवीने रेखाटलेले स्त्री वेदनेचे स्वरूप व स्त्री मनाच्या भावना याविषयीविद्यार्थ्यांना माहिती मिळाली.

कविता - ९.उद्दिष्ट-प्रेम कवितेच्या आधारे कविने रेखाटलेले पीडितांचे चित्रण करून जाणीव करून देणे.
साध्य-मानवी समाजरचनेत माणूसपण विसरत चालला असून पीडितांना न्याय मिळत नसल्याची साक्षा विद्यार्थ्यांना पटली.

कविता- १०.उद्दिष्ट- टाहारा कवितेतून आदिवासी समाजाला कसा पुढारी हवा याची माहिती विद्यार्थ्यांना देणे.
साध्य-कवितेत वर्णन केलेला आदिवासिंचा पुढारी कविता हवा असल्याची जाणीव विद्यार्थ्यांना झाली.

न्दपज प्ळ

प्रकरण - १.उद्दिष्ट-संपादन प्रक्रिया, प्रेरणा व स्वरूप याविषयीची माहिती विद्यार्थ्यांना देणे.
साध्य-ग्रंथाचे संपादन कसे करावे, संपादनाच्या प्रेरणा कोणत्या, व ग्रंथाचे स्वरूप कसे असते याचे ज्ञान विद्यार्थ्यांना प्राप्त झाले.

प्रकरण - २.उद्दिष्ट-कार्यालयीन लेखनव्यवहाराविषयी विद्यार्थ्यांना माहिती देणे.
साध्य-कार्यालयीन लेखनव्यवहारात टिप्पणी, पध्दती व अिप्पणीचे प्रकार याची माहिती विद्यार्थ्यांना प्राप्त झाली.

प्रकरण - ३.उद्दिष्ट-ग्रंथपरीक्षण कसे करावे व ग्रंथवाचन करताना कोणते घटक बघावेत याची माहिती विद्यार्थ्यांना करणे.
साध्य- ग्रंथपरीक्षण करताना परिक्षणाची पहीली पायरी ग्रंथवाचन होय त्यानंतर इतर बाबींवेडे लक्ष्य द्यावे याची माहिती विद्यार्थ्यांना प्राप्त झाली.

प्रकरण - ४.उद्दिष्ट-इंटरनेट आणि मराठी भाषा व साहित्य याची माहिती विद्यार्थ्यांना करून देणे.
साध्य- संगणक संवाद,मराठी संकेतस्थळे, इंटरनेटवरील मराठी दैनिके, व मायबोली या संकेतस्थळावरील लेख, कविता, व इतर मराठी साहित्याची माहिती विद्यार्थ्यांना झाली.

Department of Political Science
Course Objectives and Course Outcomes

Course Objectives

- To understand the difference between scholarly and popular publications in Comparative Politics.
- To understand the issues of International and Domestic Politics and Public Policy.
- To analyze contemporary problems in the countries under consideration in light of the conceptual frameworks presented in class.
- To discuss the major theories and concepts of political science and its subfields.
- To relate the basics of International Relations and the new trends in the realm of International Relations.

Course Outcomes

- Understood the analysis of the institutions, political behavior and political ideas of another country comparing these attributes to the Indian model.
- Exposed the issues of International and Domestic Politics and Public Policy
- Analyzed contemporary problems in the countries under consideration in light of the conceptual frameworks presented in class.
- Presented the major theories and concepts of political science and its subfields.
- Made aware of the basics of International Relations and the new trends in the realm of international relations.

Department of Economics

Course Objectives and Course Outcomes

Unit – I Nature of Indian Economy

Objective – To introduce the basic Knowledge of the Indian Economy

Outcome -Students learnt about the Knowledge of the Indian Economy.

Unit – II Agriculture

Objective –To explain the importance of the Agriculture Sector the in Indian Economy.

Outcome -Students learnt about the Importance of the Agriculture Sector the in Indian Economy.

Unit – III - Industry

Objective – To explain the Importance and Role of Industries in Economic Development

Outcome -Students learnt about the Knowledge of Industries in the Economic Development.

Unit – IV- Employment and Poverty

Objective- To develop preliminary knowledge of Employment and Poverty

Outcome -Students learnt about the preliminary knowledge of Employment and Poverty.

Department of English

Course Objectives and Course Outcomes

English Literature

Objective: To enable students to analyse literary text.

Outcome: Students showed their ability to analyze literary text.

Objective: To enable students to interpret literary texts.

Outcome: Students showed their ability to interpret the literary text.

Objective: To enable students to understand significant developments in the history of English and Indian literature.

Outcome: Students became aware of significant developments in the history of English and Indian literature

Objective: To enable students to apply theoretical approaches to the critical reading of literary texts.

Outcome: Students tried to apply theoretical approaches to the critical reading of literary texts.

Department of Sociology

Course Objectives and Course Outcomes

Indian Society: The Structural Issues

Unit - I Indian Society, Structure and Inequality

Objective - To know in detail about Indian Society, Structure and Inequality

Outcome - Student understood the concept of Indian Society, Structure and Inequality

Unit - II Family in Contemporary India

Objective - To make the students aware of Family in Contemporary India.

Outcome -Student understood the concept of Family in Contemporary India

Unit - III Tribal Issues and Problems in India

Objective - To make the students aware of Tribal Issues and Problems in India.

Outcome – Students understood the concept of Tribal Issues and Problems in India.

Unit - IV Rural Community in India

Objective - To make the students know in details about Rural Community in India.

Outcome - Student understood the concept of Rural Community in India

Department of History

Course Objectives and Course Outcomes

Modern World (1789-1920)

Course Objectives

- To understand What were the causes and consequences of the French Revolution?
- To study how imperialism came into being.
- To study World War- I - Treaty of Vasai.
- To understand United Nation and its performance.

Course Outcomes

- Understood the French Revolution - the first revolution in the world.
- Studied, what are the reasons for imperialism?.
- Understood World War -I - the Treaty of Vasai.
- Learned about the United Nations and its achievements and Failures.

Department of Marathi

Course Objectives and Course Outcomes

Marathi Literature

Unit I:

प्रकरण - ६, उद्दिष्ट- चक्र या कथेतून महाभारतातील द्रौपदी या स्त्रीचे चित्रण विद्यार्थ्यांना माहित करून देणे.
साध्य- महाभारतातील द्रौपदीच्या मनातील गूढ व गुंतागुंतीचे भावनात्मक प्रसंगाची माहिती विद्यार्थ्यांना प्राप्त झाली.

प्रकरण - ७, उद्दिष्ट- पक्षीगान पाठवून पक्ष्यांच्या सौंदर्याचे दर्शन घडविणे.

साध्य- पक्षीगान मधून विविधक्षी, पक्ष्यांची घरटी, त्यांची पिल्ले यांची माहिती व ओळख विद्यार्थ्यांना झाली.

प्रकरण - ८, उद्दिष्ट- अन्वरषा फकीर या मुस्लीम व्यक्तीमत्त्वाची ओळख विद्यार्थ्यांना करून देणे.

साध्य- लहान मुले, स्त्रीया, माणसे व आजुबाजूच्या गावातील जनतेसाठी उपयुक्त असे अन्वरषा फकीरचे व्यक्तिमत्त्व असल्याचे विद्यार्थ्यांना कळून आले.

प्रकरण - ९, उद्दिष्ट- दाभोलकरांच्या अंधश्रद्धा निर्मूलनाचे कार्याची माहिती विद्यार्थ्यांना करून देणे.

साध्य- वैज्ञानिक दृष्टिकोण व शास्त्रीय विचार पध्दतीने अंधश्रद्धा निर्मूलन करण्याचे घ्येय दाभोलकरांचे होते याची माहिती विद्यार्थ्यांना झाली.

प्रकरण - १०, उद्दिष्ट- महिला ग्रामपंचायतीच्या नितडणूकीचे चित्रण विद्यार्थ्यांना सांगणे.

साध्य- ग्रामीण भागातील ग्रामपंचायत मधील नितडणूकीची माहिती व परिस्थितीची जाणीव विद्यार्थ्यांना आली.

Unit II:

कविता - ६, उद्दिष्ट- ही निळी पांढरी कवितेतील षड ऋतूतील दुपारचे वर्णन करून देणे.

- साध्य-**इंदिरा संतानी केलेलीषरद ऋतूतील उन्हाची माहिती विद्यार्थ्यांना प्राप्त झाली.
- कविता - ७.उद्दिष्ट-**दोन ज्योती यातून कविने वर्णन केलेल्या दोन ज्योतीचा उलघडा करणे .
- साध्य-**एक दुःखाची ज्योत लाल असते व दुसरी दुःखाची ज्योत काळी असून तीचे दुःख कायम टिकणारे असते याची जाणीव विद्यार्थ्यांना झाली.
- कविता - ८.उद्दिष्ट-**पाऊस कवितेतून स्त्री मनाच्या विविध भावावस्था विद्यार्थ्यांना उलघडून दाखविणे .
- साध्य-**ग्रेस कवीने रेखाटलेले स्त्री वेदनेचे स्वरूप व स्त्री मनाच्या भावना याविषयीविद्यार्थ्यांना माहिती मिळाली.
- कविता - ९.उद्दिष्ट-**प्रेम कवितेच्या आधारे कविने रेखाटलेले पीडितांचे चित्रण करून जाणीव करून देणे.
- साध्य-**मानवी समाजरचनेत माणूसपण विसरत चालला असून पीडितांना न्याय मिळत नसल्याची साक्षा विद्यार्थ्यांना पटली.
- कविता- १०.उद्दिष्ट-** टाहारा कवितेतून आदिवासी समाजाला कसा पुढारी हवा याची माहिती विद्यार्थ्यांना देणे.
- साध्य-**कवितेत वर्णन केलेला आदिवासिंचा पुढारी कविला हवा असल्याची जाणीव विद्यार्थ्यांना झाली.

Unit III:

- प्रकरण - ३.उद्दिष्ट-**ग्रंथपरीक्षण कसे करावे व ग्रंथवाचन करताना कोणते घटक बघावेत याची माहिती विद्यार्थ्यांना करणे.
- साध्य-** ग्रंथपरीक्षण करताना परिक्षणाची पहीली पायरी ग्रंथवाचन होय त्यानंतर इतर बाबींवर लक्ष्य द्यावे याची माहिती विद्यार्थ्यांना प्राप्त झाली.
- प्रकरण - ४.उद्दिष्ट-**इंटरनेट आणि मराठी भाषा व साहित्य याची माहिती विद्यार्थ्यांना करून देणे.
- साध्य-** संगणक संवाद,मराठी संकेतस्थळे, इंटरनेटवरील मराठी दैनिके, व माराबोली या संकेतस्थळावरील लेख, कविता, व इतर मराठी साहित्याची माहिती विद्यार्थ्यांना झाली

Department of Marathi Course Objectives and Outcomes Compulsory Marathi

Unit I:

- प्रकरण - ६.उद्दिष्ट-**चक्र या कथेतून महाभारतातील द्रौपदी या स्त्रीचे चित्रण विद्यार्थ्यांना माहित करून देणे.
- साध्य-** महाभारतातील द्रौपदीच्या मनातील गूढ वगुंतागुंतीचे भावनीक प्रसंगाची माहिती विद्यार्थ्यांना प्राप्त झाली.
- प्रकरण - ७.उद्दिष्ट-**पक्षीगान पाठातून पक्ष्यांच्या सौंदर्याचे दर्शन घडविणे.
- साध्य-**पक्षीगान मधून विविधक्षी, पक्ष्यांची घरटी, त्यांची पित्ले यांची माहिती व ओळख विद्यार्थ्यांना झाली.
- प्रकरण - ८.उद्दिष्ट-**अन्तरषा फकीर या मुस्लीम व्यवृत्तीमत्वाची ओळख विद्यार्थ्यांना करून देणे.
- साध्य-**लहान मुले, स्त्रीया, माणसे व आजुबाजूच्या गावातील जनतेसाठी उपयुक्त असे अन्तरषा फकीरचे व्यवितमत्व असल्याचे विद्यार्थ्यांना कळून आले.
- प्रकरण -९.उद्दिष्ट-** दाभोलकरांच्या अंधश्रद्धा निर्मूलनाचे कार्याची माहिती विद्यार्थ्यांना करून देणे.
- साध्य-**वैज्ञानिक दृष्टिकोण व वारसीय विचार पध्दतीने अंधश्रद्धा निर्मूलन करण्याचे घ्येय दाभोलकरांचे होते याची माहिती विद्यार्थ्यांना झाली.
- प्रकरण -१०.उद्दिष्ट-**महिला ग्रामपंचायतीच्या निवडणुकीचे चित्रण विद्यार्थ्यांना सांगणे.
- साध्य-** ग्रामीण भागातील ग्रामपंचायत मधील निवडणुकीची माहिती व परिस्थितीची जाणीव विद्यार्थ्यांना आली.

Unit II:

- कविता - ६.उद्दिष्ट-**ही निळी पांढरी कवितेतील षरद ऋतूतील दुपारचे वर्णन करून देणे.
- साध्य-**इंदिरा संतानी केलेलीषरद ऋतूतील उन्हाची माहिती विद्यार्थ्यांना प्राप्त झाली.
- कविता - ७.उद्दिष्ट-**दोन ज्योती यातून कविने वर्णन केलेल्या दोन ज्योतीचा उलघडा करणे .
- साध्य-**एक दुःखाची ज्योत लाल असते व दुसरी दुःखाची ज्योत काळी असून तीचे दुःख कायम टिकणारे असते याची जाणीव विद्यार्थ्यांना झाली.
- कविता - ८.उद्दिष्ट-**पाऊस कवितेतून स्त्री मनाच्या विविध भावावस्था विद्यार्थ्यांना उलघडून दाखविणे .
- साध्य-**ग्रेस कवीने रेखाटलेले स्त्री वेदनेचे स्वरूप व स्त्री मनाच्या भावना याविषयीविद्यार्थ्यांना माहिती मिळाली.
- कविता - ९.उद्दिष्ट-**प्रेम कवितेच्या आधारे कविने रेखाटलेले पीडितांचे चित्रण करून जाणीव करून देणे.
- साध्य-**मानवी समाजरचनेत माणूसपण विसरत चालला असून पीडितांना न्याय मिळत नसल्याची साक्षा विद्यार्थ्यांना पटली.
- कविता- १०.उद्दिष्ट-** टाहारा कवितेतून आदिवासी समाजाला कसा पुढारी हवा याची माहिती विद्यार्थ्यांना देणे.
- साध्य-**कवितेत वर्णन केलेला आदिवासिंचा पुढारी कविला हवा असल्याची जाणीव विद्यार्थ्यांना झाली.

Unit III:

प्रकरण - ३.उद्दिष्ट-ग्रंथपरीक्षण कसे करावे व ग्रंथवाचन करताना कोणते घटक बघावेत याची माहिती विद्यार्थ्यांना करणे.

साध्य- ग्रंथपरीक्षण करताना परिक्षणाची पहीली पायरी ग्रंथवाचन होय त्यानंतर इतर बाबींवर लक्ष्य द्यावे याची माहिती विद्यार्थ्यांना प्राप्त झाली.

प्रकरण - ४.उद्दिष्ट-इंटरनेट आणि मराठी भाषा व साहित्य याची माहिती विद्यार्थ्यांना करून देणे.

साध्य- संगणक संवाद,मराठी संकेतस्थळे, इंटरनेटवरील मराठी दैनिके, व माराबोली या संकेतस्थळावरील लेख, कविता, व इतर मराठी साहित्याची माहिती विद्यार्थ्यांना झाली

Department of English Course Objectives and Course Outcomes Compulsory English

Objective: To enable students to read fluently with proper pronunciation and comprehend the prose.

Outcome: Students read fluently with proper pronunciation and comprehended the prose

Objective: to make students enable to understand and enjoy one act play

Outcome: Students understood and enjoyed one-act- play.

Objective: To enable students to understand the poets and their prescribed poetry.

Outcome- Students understood the theme of the poems and had knowledge about the prescribed poets.

Objective: To enable students to have knowledge of applied skills like composing an Email, Curriculum vitae, paragraph with the help of given hints/points.

Outcome: Students had knowledge of applied skills like composing an Email, Curriculum vitae, paragraph with the help of given hints/points.

Objective: To enrich conversational skills of students

Outcome: Conversational skill of students improved.

Department of Political Science Course Objectives and Course Outcomes

Course Objectives

- To understand the difference between scholarly and popular publications in Comparative Politics.
- To understand the issues of International and Domestic Politics and Publicpolicy.
- To analyze contemporary problems in the countries under consideration in light of the conceptual frameworks presented in class.
- To discuss the major theories and concepts of political science and its subfields.
- To relate the basics of International Relations and the new trends in the realm of International Relations.

Course Outcomes

- Understood the analysis of the institutions, political behavior and political ideas of another country comparing these attributes to the Indian model
- Understood the issues of International and Domestic Politics and Public Policy
- Analyzed contemporary problems in the countries under consideration in light of the conceptual frameworks presented in class.
- Presented with the major theories and concepts of political science and its sub fields.
- Made aware of the basics of International Relations and the new trends in the realm of international relations.

Department of Economics

Course Objectives and Course Outcomes

Unit -I: Economic Development and Growth

- Objective- To develop the ability to explain the core economic Sector of Economic Development and Growth.
- Outcome – Students learnt and accepted the Knowledge of Economic Development and Growth.

Unit –II: Planning and Policy

- Objective – To introduce the theory of Planning and Policy.
- Outcome - Students learnt the theory of Planning and Policy

Unit -III: Public Finance

- Objective- To develop preliminary knowledge of Public Finance.
- Outcome – Students learnt preliminary knowledge of Public Finance.

Unit –IV: International Trade

- Objective- To explain the theory of International Trade.
- Outcome –Students learnt about the theory of International Trade.

Department of Sociology

Course Objectives and Course Outcomes

Current Social Problems in India

Unit - I Education in Contemporary

Objective - To make the students in detail about Education in Contemporary India.

Outcome - Students understood the concept of Education in Contemporary India.

Unit - II Displacement and Rehabilitation

Objective – To make the students aware of Displacement and Rehabilitation.

Outcome – Students understood the concept of Displacement and Rehabilitation.

Unit - III Intolerance, Riot Crime

Objective - To make students know in detail about Intolerance, Riot Crime.

Outcome - Students understood the concept of Intolerance, Riot Crime.

Unit IV Corruption

Objective - To make students aware of Corruption.

Outcome -Students understood the concept of Corruption.

Department of History

Course Objectives and Course Outcomes

B. A. III (VI –Sem.) Modern World (1920 -1960)

Course Objectives

- To Study what were Russia's five-year plans?
- To understand Hitler - Mussolini's foreign policy.
- To understand the Causes of World War II.
- To study the United Nations the and performance of Suez Canal.

Course Outcomes

- Learned about Russia's Five-Year Plan
- Learned about Hitler - Mussolini's foreign policy in detail.
- Learned the reasons for the Second World War.
- Received information about the United Nations .
- Understood the performance of the Suez Canal, NATO SEATO, Warsaw Pact.

Department of Marathi

Course Objectives and Outcomes

Marathi Literature

Unit I:

गरुडझेप- भरत आंधळे

उद्दिष्ट- गरुड जेप मधील लेखकानी नोकरीसाठी ध्येयवेडा प्रवास कसा केला याची माहिती देऊन विद्यार्थ्यांना प्रेरित करणे.

साध्य- भरत आंधळेच्या वैक्षणिक प्रगतीचा व स्पर्धा परीक्षेच्या कार्याचा आढावा घेऊन विद्यार्थ्यांनी गरुडझेप आत्मकथनातून पेरणा घेतली.

प्राचीन मराठी वाङ्मयाचा इतिहास- ल.य. नषियबादकर.

उद्दिष्ट- प्राचीन मराठी वाङ्मयाचा इतिहासाच्या आधार संतसाहित्य, पंडिती साहित्य,षाहिरी साहित्य, बखर वाङ्मय या साहित्याची माहिती विद्यार्थ्यांना देणे

साध्य- संतसाहित्य, पंडिती साहित्य,षाहिरी साहित्य, बखर वाङ्मय या साहित्याची माहिती विद्यार्थ्यांना झाली.

भाषाविज्ञानाचा परिचय. डॉ. मालसे, डॉ. कुळकर्णी

उद्दिष्ट- भाषाविज्ञानाचा परिचय विद्यार्थ्यांना करून देणे.
साध्य- मराठी मुळाक्षरे, स्वन व स्वनांतरे यांची माहिती विद्यार्थ्यांना झाली.

Bachelor of Commerce

Semester -I

Course Objectives and Course Outcomes Compulsory English

Course Objectives

- To understand the meaning of start-up through the prescribed Life Sketches of Start-up founders.
- To understand financial and business acumen through basic research skills for business.
- To understand and value inclusivity in human nature.
- To prioritize the importance of human life and wealth.
- To understand horror stories with elements of surprise and irony.
- To understand expansive and imaginative concepts.
- To understand the meanings of motivation and indomitable spirit.
- To take up tasks and not to worry about the end result for the larger benefit of Human-kind.
- To understand that tranquil temperament is the most potent weapon one can have against diversity.
- To understand grammar and apply it in their writing skills.

Course Outcomes

- Understood the meaning of Start-up through the prescribed Life Sketches of Start-up founders.
- Understood financial and business acumen through basic research skills for business.
- Understood and value inclusivity in human nature.
- Understood prioritize the importance of human life and wealth.
- Understood horror stories with elements of surprise and irony.
- Understood expansive and imaginative concepts .
- Understood the meanings of motivation and indomitable spirit.
- Understood tasks and not to worry about the end result for the larger benefit of Human kind.
- Understood that tranquil temperament is the most potent weapon one can have against diversity.

- Understood grammar and apply it in their writing skills.

Department of Marathi

Course Objectives and Course Outcomes

Course Objectives

- उद्दिष्टे:- 1. मराठी भाषेविषयी विद्यार्थ्यांमध्ये अभिरुची निर्माण करणे.
 2. साहित्यलेखनाची व वाचनाची आवड निर्माण करणे.
 3. विद्यार्थ्यांमध्ये असलेल्या सुप्त कलांगुणांना वाव देऊन त्यांच्यात साहित्यविषयक वृद्धिंगत करणे.
 4. साहित्यातून मानवतावादी दृष्टिकोण रुजविणे.
 5. साहित्यातून समाजातील प्रश्नांना वाचा फोडून त्यांचे निराकरण करणे.

Course Outcomes

- ध्येय:- 1. भावी काळात विद्यार्थ्यांमधून साहित्यनिर्मिती करणे.
 2. अध्यापन व अध्ययनात विद्यार्थ्यांना सहभागी करून संवादशील वातावरण निर्मिती करणे.
 3. विभागात विविध उपक्रमांचे आयोजन करून मराठी भाषेचा दर्जा वाढविणे.
 4. विद्यार्थ्यांमध्ये संशोधनवृत्ती वृद्धिंगत करणे.
 5. मराठी भाषेची प्रयोगशाळा निर्माण करणे.

- C01 भारतीय लोकशाहीचे मूल्य विद्यार्थ्यांमध्ये रुजविणे.
 C02 ग्रामीण जनजिवन व शेतीनिष्ठेशी विद्यार्थ्यांची नाळ जोळणे.
 C03 संताच्या व्यावहारिक विचारांचा परिचय घडविणे.
 C04 शाहू महाराजाच्या आरक्षण विषयी विचारांचा परिचय घडविणे.
 C05 काव्यातील रसग्रहणक्षमता विकसीत करणे.
 C06 विद्यार्थ्यांमध्ये आधुनिक मूल्य रुजविणे
 C07 विद्यार्थ्यांमध्ये सामाजिक बांधिलकी निर्माण करणे.
 C08 विद्यार्थ्यांमध्ये सर्जनशीलता निर्माण करणे.

Financial Accounting

Course Objectives and Course Outcomes

Unit No. I - Financial Accounting.

- Objective- To make the students understand Financial Accounting. Meaning, Principles & Problem.
- Outcome -Students understood the following topics. Financial Accounting. Meaning, Objective, Principles & Problem.

Unit No 2- Hire Purchase Account.

- Objective - To make the students understand Hire Purchase Account Meaning, Method & Problems.
- Outcome- Students understood the following topics Hire Purchase Account Meaning, Method & Problems.

Unit No 3- Final Account of Co-Operative Societies.

- Objective - To make the students to understand the Final AccountCo-Operative Societies .Introduction, Type, Co-operative Legislation and Problems.
- Outcome- Students understood the following topics Final Account of Co-Operative Societies Introduction, Type, Co-Operative Legislation and Problems

Unit No 4- Join Venture Accounts.

- Objective- To make the students understand Join Venture Accounts Meaning, Method and Problem.
- Outcome - Students understood the following topics
Join Venture Accounts Meaning, Method and Problems.

BUSINESS ORGANISATION

Course Objectives and Course Outcomes

Objectives

- To make the students understand the concept, objective, importance of business.
- To acquaint the students with various forms of Business organization and their functioning.
- To make the students understand the concept, functions of Organization and types of Organization.
- To make the students understand the Internal constituents of the Business Organization Key Managerial Personnel, Chairman, Chief executive officer, E-Commerce, E-business and E-banking.

Outcomes

- Students understood the concept, objective and importance of business.
- Acquainted the students with various forms of Business organization and their functioning.
- Understood the concept, functions of Organization and types of Organization.
- Understood Internal constituents of the Business Organization Key managerial Personnel, Chairman, Chief executive officer, E-Commerce, E-business and E-banking.

Company Law

Course Objectives and Course Outcomes

Unit No. I - Background of New Company

- Objective - To make the students understand the Background of New Company Act 2013, Corporate Personality & Kinds of Company.
- Outcome - Students understood the following topics. Background of New Company Act 2013, Corporate Personality & Kinds of Company.

Unit No 2- Memorandum of Association, Article of Association and Prospectus.

- Objective - To make the students understand the Memorandum of Association, Article of Association and Prospectus.
- Outcome - Students understood the Memorandum of Association, Article of Association and Prospectus.

Unit No 3- Shares and Share Capital

- Objective- To make the students understand Shares and Share Capital.
- Outcome- Students understood the following topics Shares and Share Capital.

Unit No 4- Membership in a company, Director.

- Objective - To make the students understand Membership in a company, Director.

- Outcome- Students understood the following topics Membership in a company, Director.

Department of English
Semester-II
Compulsory English
Course Objectives and Course Outcomes

Course Objectives

- To understand the meaning of Start-up through the prescribed Life Sketches of Start-up founders.
- To understand financial and business acumen through basic research skills for business.
- To understand and value inclusivity in human nature.
- To prioritize the importance of human life and wealth.
- To understand horror stories with elements of surprise and irony.
- To understand expansive and imaginative concepts.
- To understand the meanings of motivation and indomitable spirit.
- To take up tasks and not to worry about the end result for the larger benefit of Humankind.
- To understand that tranquil temperament is the most potent weapon one can have against diversity.
- To understand grammar and apply it in their writing skills.

Course Outcomes

- Understood the meaning of Start-up through the prescribed Life Sketches of Start-up founders.
- Understood financial and business acumen through basic research skills for business.
- Understood and valued inclusivity in human nature.
- Understood prioritizing the importance of human life and wealth.
- Understood horror stories with elements of surprise and irony.
- Understood expansive and imaginative concepts.
- Understood the meanings of motivation and indomitable spirit.
- Understood the tasks and not to worry about the end result for the larger benefit of Human kind.
- Understood that tranquil temperament is the most potent weapon one can have against diversity.
- Understood grammar and apply it to their writing skills.

Department of Marathi
Course Objectives and Outcomes

- CO1 भारतीय लोकशाहीचे मूल्य विद्यार्थ्यांमध्ये रुजविणे.
CO2 ग्रामीण जनजिवन व शेतीनिष्ठेशी विद्यार्थ्यांची नाळ जोळणे.
CO3 संताच्या व्यावहारिक विचारांचा परिचय घडविणे.
CO4 शाहू महाराजाच्या आरक्षण विषयी विचारांचा परिचय घडविणे.
CO5 काव्यातील रसग्रहणक्षमता विकसीत करणे.
CO6 विद्यार्थ्यांमध्ये आधुनिक मूल्य रुजविणे
CO7 विद्यार्थ्यांमध्ये सामाजिक बांधिलकी निर्माण करणे.
CO8 विद्यार्थ्यांमध्ये सर्जनशीलता निर्माण करणे.

Statistics and Business Mathematics
Course Objectives and Course Outcomes

Unit No. I - Statistics & Measures of Central Tendency

- Objective - To make the students understand the Background of Statistics & Measures of Central Tendency.
- Outcome - Students understood the following topics. Statistics & Measures of Central Tendency.

Unit No 2- Dispersion.

- Objective - To make the students understand Dispersion.
- Outcome - Students understood the following topics Dispersion.

Unit No 3- Skewness

- Objective - To make the students understand Skewness.
- Outcome - Students understood the following topics Skewness.

Unit No 4- Business Mathematics

- Objective- To make the students understand Business Mathematics.
- Outcome - Students understood the following topics.

BUSINESS MANAGEMENT

Course Objectives and Course Outcomes

Course Objectives

- To make the students understand the Meaning, types of management, Principles, function of Business Management.
- To make the students know about Planning and Decision Making.
- To make the students know about Delegation of Authority and coordination & Controlling.
- To expose the students for the applicability of recent trends in management practices.
- To make students familiar with the modern management practices being used by the corporate world.

Course Outcomes

- Understood the Meaning, types of management, Principles, and function of Business Management.

- Knew about Planning and Decision Making.
- Students knew about Delegation of Authority and coordination & Controlling.
- Exposed the students for the applicability of recent trends in management practices.
- Understood and became familiar with the modern management practices being used by the corporate world.

Secretarial Practice

Course Objectives and Course Outcomes

Unit No. I - Incorporation of Company

- Objective - To make the students understand the Incorporation of Company, Directors of Company.
- Outcome - Students understood the following topics Incorporation of Company, Directors of Company.

Unit No 2- Company Meeting, Company Agenda & Voting and Resolution.

- Objective - To make the students understand the Company Meeting, Company Agenda & Voting and Resolution.
- Outcome- Understood the Company Meeting, Company Agenda & Voting and Resolution.

Unit No 3- Report Writings, Secretarial audit & E-Governance and E-Filing

- Objective - To make the students understand Report Writings, Secretarial Audit & E-Governance and E-Filing.
- Outcome - Students get well understood the following topics Report Writings, Secretarial audit & E-Governance and E-Filing.

Unit No 4- Key Management Personnel, Appointment of Director & Management Remuneration.

- Objective - To Make the students understand Key Management Personnel, Appointment of Director & Management Remuneration.
- Outcome - Students understood the following topics Key Management Personnel, Appointment of Director & Management Remuneration.

Business Economics II

Course Objectives and Course Outcomes

Unit I-

Market Structure

Objective- To make the students understand the Market structure.

Outcome- Students understood the Market Structure.

Unit II-

Perfect & Imperfect Competition Markets

Objective- Students should become aware of Perfect & Imperfect Competition.

Outcome- Students understood Perfect & Imperfect Competition.

Unit III-

Theories of Distribution

Objective- Students should become aware of the Theory of Distribution.

Outcome-Students understood & they applied their knowledge.

Unit IV-

Business cycles & National Income

Objective- Students should become aware of Business cycles & National Income.

Outcome-Students understood Business cycles & National Income.

Compulsory English Semester-III Course Objectives and Course Outcomes

Course Objectives

- To understand the meaning of Start-up through the prescribed Life Sketches of Start-up founders.
- To understand financial and business acumen through basic research skills for business.
- To understand and value inclusivity in human nature.
- To prioritize the importance of human life and wealth.
- To understand horror stories with elements of surprise and irony.
- To understand expansive and imaginative concepts.
- To understand the meanings of motivation and indomitable spirit.
- To take up tasks and not to worry about the end result for the larger benefit of Human kind.
- To understand that tranquil temperament is the most potent weapon one can have against diversity.
- To understand grammar and apply it in their writing skills.

Course Outcomes

- Understood the meaning of Start-up through the prescribed Life Sketches of Start-up founders.
- Understood financial and business acumen through basic research skills for business.
- Understood and valued inclusivity in human nature.
- Understood prioritizing the importance of human life and wealth.
- Understood horror stories with elements of surprise and irony.
- Understood expansive and imaginative concepts.
- Understood the meanings of motivation and indomitable spirit.

- Understood tasks and not to worry about the end result for the larger benefit of Humankind.
- Understood that tranquil temperament is the most potent weapon one can have against diversity.
- Understood grammar and apply it in their writing skills.

**Department of Marathi
Semester III**

Course Objectives and Outcomes

- CO1 मातृभाषेची आवड व जाणीव निर्माण करणे
 CO2 प्राचिन मराठीचे वैशिष्ट्ये स्पष्ट करणे.
 CO3 विनोदी लेखनात खेळकरवृत्तीचे दर्शन घडविणे.
 CO4 संत साहित्यातून सामाजिक, सांस्कृतिक, आध्यात्मिक लोकशाहीचा पुरस्कार करणे.
 CO5 स्त्री विषयक जाणिव जागृती करणे.
 CO6 वृत्त लेखन व कल्पना विस्तार तंत्राची माहिती अवगत करणे.

**Financial Accounting II
Semester III**

Unit I-

Consignment Accounts

Objective- Students should become aware of the topic of Consignment Accounts.

Outcome- Students understood & Solve the Problems.

Unit II-

Branch Accounts

Objective- Students should become aware of topic of Branch Accounts.

Outcomes- Students understood & solve the Problems.

Unit III-

Capital Structure & Issues of Shares

Objective- Students should become aware of topic of Capital Structure & Issues of Shares.

Outcome- Student understood & solved the Problems of Issues of Shares.

Unit IV-

Final Accounts of Joint Stock Companies

Objective- Students should become aware of the topic of Final Accounts of Joint Stock Company.

Outcome- Student understood & solved the problems.

Business Communication & Management

Course Objectives and Course Outcomes

Unit No. I - Meaning, Definition and concept of Communication, objective of Communication

Objective - To make the students understand the Meaning, Definition and concept of Communication, objective of Communication

Outcome - The students understood the Meaning, Definition and concept of Communication, the objective of Communication

Unit No 2- Business Communication.

Objective - To make the students understand the Business Communication.

Outcome- The students understood Business Communication.

Unit No 3- Technology and Business Communication

Objective - To make the students understand Technology and Business Communication.

Outcome- Students understood the following topics;
Technology and Business Communication.

Unit No 4- M.S. Office Aided Communication.

Objective - To make the students understand M.S. Office-Aided Communication.

Outcome - Students understood the following topics;
M.S. Office Aided Communication.

Business Law

Course Objectives and Course Outcomes

Course Objectives

- Students will be able to understand various provisions of the related Acts the course gives the knowledge regarding The Indian Contract Act, 1872, The Sales of Goods Act, 1930, The Indian partnership Act 1932, Negotiable Instruments Act 1881.
- To make the students gain knowledge of various legal aspects of the business.
- To make the students understand laws that affect mercantile transactions.

- Students will be able to understand court interpretations of laws like, Prevention of Money Laundering Act-2002, Consumer Protection Act – 2002

Course Outcomes

- Student understood various provisions of the related Acts the course gives the knowledge regarding The Indian Contract Act, 1872, The Sales of Goods Act, 1930, The Indian partnership Act 1932, Negotiable Instruments Act 1881.
- Students gained knowledge of various legal aspects of the business.
- Students understood laws that affect mercantile transactions.
- Students understood court interpretations of laws like, the Prevention of Money Laundering Act-2002, Consumer Protection Act – 2002

Monetary Economics-I

Course Objectives and Course Outcomes

Unit I-

Money

Objective- To make the students understand the concept of Ethe volution of Money & Functions of Money.

Outcome-Students understood the concept of the Evolution of Money & Functions of Money.

Unit II-

Inflation & Deflation

Objective- To make the students understand the concept of inflation and deflation.

Outcome-Students developed their knowledge about inflation and deflation.

Unit III-

Money Market & Policies

Objective- To make the students understand the concept of the Money Market and Monetary Policy.

Outcome-Students understood & they applied their knowledge.

Unit IV-

Public Finance

Objective- To make the students understand the concept of Public Finance.

Outcome-Students applied & developed the knowledge.

Compulsory English

Semester-IV

Course Objectives and Course Outcomes

Course Objectives

- To understand and value inclusivity in human nature.

- To prioritize the importance of human life and wealth.
- To understand horror stories with elements of surprise and irony.
- To understand expansive and imaginative concepts.
- To understand the meanings of motivation and indomitable spirit.
- To take up tasks and not to worry about the end result for the larger benefit of Humankind.
- To understand grammar and apply it in their writing skills.

Course Outcomes

- Understood and valued inclusivity in human nature.
- Understood prioritizing the importance of human life and wealth.
- Understood horror stories with elements of surprise and irony.
- Understood expansive and imaginative concepts.
- Understood the meanings of motivation and indomitable spirit.
- Understood tasks and not to worry about the end result for the larger benefit of Humankind.
- Understood grammar and apply it to their writing skills.

Department of Marathi Course Objectives and Outcomes

- CO1 मातृभाषेची आवड व जाणीव निर्माण करणे.
 CO2 प्राचिन मराठीचे वैशिष्ट्य स्पष्ट करणे.
 CO3 विनोदी लेखनात खेळकरवृत्तीचे दर्शन घडविणे.
 CO4 संत साहित्यातून सामाजिक, सांस्कृतिक, आध्यात्मिक लोकशाहीचा पुरस्कार करणे.
 CO5 स्त्री विषयक जाणिव जागृती करणे.
 CO6 वृत्त लेखन व कल्पना विस्तार तंत्राची माहिती अवगत करणे.

Financial Accounting III

Course Objectives and Outcomes

Unit I-

Final Accounts of Banking Companies

Objective-Students should become aware of the topic of Final Accounts of Banking Companies.

Outcome-Students understood and solved the Problems.

Unit II-

Final Accounts of General Insurance Companies

Objective- Students should become aware of the topic of Final Accounts of General Insurance Companies.

Outcome- Student understood and solved the Problems.

Unit III-

Valuation of Goodwill

Objective- Students should become aware of the topic of the Valuation of Goodwill.

Outcome- Student understood and solved the Problems.

Unit IV-

Liquidation of Company

Objective- Students should become aware of the topic of the Liquidation of Company.

Outcome- Student understood & solved the Problems.

Skill Development

Course Objectives and Course Outcomes

Unit No. I - Introduction- Basic Personality, Human Growth and Behavior and Motivation.

- Objective - To make the students understand the Introduction- Basic Personality, Human Growth and Behavior and Motivation.
- Outcome - The students understood the Introduction- Basic Personality, Human Growth and Behavior and Motivation.

Unit No 2- Communication Skill and Personality Development.

- Objective - To make the students understand Communication Skills and Personality Development.
- Outcome - The students understood the Communication Skills and Personality Development.

Unit No 3- Techniques in Personality Development.

- Objective - To make the students understand Techniques in Personality Development.
- Outcome - Students understood the following topics Techniques in Personality Development.

Unit No 4- Entrepreneurial Skill Development.

- Objective - To make the students understand Entrepreneurial Skill Development.
- Outcome- Students understood Entrepreneurial Skill Development.

Income Tax

Course Objectives and Course Outcomes

Course Objectives

- To make the students understand the basic concepts involved in the Income Tax act and the basics of income tax.
- To make the students understand the Taxable Salary and tax liability.
- Students get exposure to provisions of taxation of house property.
- To make the students understand Income Tax Slab Rates. They know how to deduct under section 80C, 80 CCC, 80CCD, 80D, 80DDB, 80E,80G, 80GG and

80U. Students get exposure to provisions of taxation of Income from other sources.

- They learn the procedure of filing tax returns, Advance tax and tax refunds.

Course Outcomes

- Understood the basic concepts involved in Income Tax act and also the basics of income tax.
- Understood the Taxable Salary and tax liability.
- Students got exposure to provisions of taxation of house property.
- Understood Income Tax Slab Rates. They know how to deduct under section 80C, 80 CCC, 80CCD, 80D, 80DDB, 80E,80G, 80GG and 80U. Students get exposure to provisions of taxation of Income from other sources. They learn the procedure of filing tax returns, Advance tax and tax refunds

Monetary Economics-II

Course Objectives and Course Outcomes

Unit I-

Commercial Bank

Objective-To make the students understand the functions of Commercial Bank.

Outcome-Students understood the functions of Commercial Bank.

Unit II-

E-Banking and Core Banking

Objective- To make the students understand -Banking and Core Banking.

Outcome-Students developed their knowledge.

Unit III-

Banks and Customers Relationship and Service

Objective- To make the students understand the Banks Customers Relationship and Service.

Outcome-Students understood & applied their knowledge.

Unit IV-

Central Bank

Objective- To make the students to understand the Central Bank.

Outcome-Students developed the knowledge about Central Bank.

Financial Accounting-IV

Semester-V

Course Objectives and Course Outcomes

Unit No. I - Amalgamations & Absorption of Companies.

Objective - To make the students understand Amalgamations & Absorption.

Outcome - Students understood the topics like Amalgamations & Absorption.

Unit No 2- Reorganization & reconstruction of Companies.

Objective - To make the students understand the Reorganization & reconstruction problem.

Outcome - Students understood the concepts of the Reorganization & reconstruction problems.

Unit No 3- Valuation of Shares

Objective - To make the students understand Valuation of Shares Problems.

Outcome- Students understood the Valuation of Shares Problems.

Unit No 4- Double Account system

Objective - To make the students understand Double Account system.

Outcome - Students understood the Double Account system.

Management Process

Course Objectives and Course Outcomes

Unit I-

Management and Administration

Objective- To make the students understand meaning and difference of Management and Administration.

Outcome-Students applied the knowledge of Management and Administration.

Unit II-

Managerial Development & Group Dynamics

Objective- To make the students to understand the Managerial Development & Group Dynamics

Outcome-Students understood the knowledge of Managerial Development & Group Dynamics.

Unit III-

Managerial Style

Objective- To make the students understand the Managerial Style.

Outcome-Students developed the knowledge of Managerial Style.

Unit IV-

Motivation:

Objective- To make the students understand the Motivation.

Outcome- Students understood the meaning of Motivation and their types.

Indian Economics –I

Course Objectives and Course Outcomes

Unit I-

Indian Economy & Planning

Objective- To make the students understand the Indian Economy & Planning.

Outcome-Students understood the Indian Economy & Planning.

Unit II-

Indian Economy & Policy

Objective- To make the students understand the Indian Economy & Policy.

Outcome-Students understood the concept of the Indian Economy & its Policy.

Unit III-

Population & Unemployment

Objective- To make the students understand the Population & Unemployment.

Outcome- Students understood the problems.

Unit IV-

India's Public Finance

Objective- To make the students understand the India's Public Finance.

Outcome- Students developed the knowledge of India's Public Finance.

Computerize Accounting Course Objectives and Course Outcomes

Objective - To make the students understand Introduction of Computerize Accounting, Advantage, Need and Accounting Groups.

Outcome - Students understood the following topics;
Introduction of Computerize Accounting, Advantage, Need and Accounting Groups.

Unit No 2- Accounting Software's.

Objective - To make the students understand Accounting Software.

Outcome - Students understood the topic- Accounting Software.

Unit No 3- Accounts Info Menu, Accounts Groups.

Objective - To make the students understand the Accounts Info Menu, Accounts Groups-

Create Group, Ledger Accounts, Voucher & Features of Account Voucher.

Outcome - Students understood the following topics-

Accounts Info Menu, Accounts Groups-
Create Group, Ledger Accounts, Voucher & Features of Account Voucher.

Unit No 4- Inventory Info, Features of Inventory Info. Configure.

Objective - To make the students understand the Inventory Info, Features of the Inventory Info. Configure.

Outcome - Students understood the following topics-
Inventory Info, Features of Inventory Info. Configure.

Auditing Course Objectives and Course Outcomes

Course Objectives

- To make the Students learn a lot about the basics of audit and auditing, internal and external check, periodic audits, internal audit external audit , continuous audit , cost audit, management audit and annual audit.
- To make the Students learn the Audit Planning and Audit Documentation and Evidence.
- To make the students understand standard on Auditing, Vouching & Verification Vouching, Verification of Assets and Liabilities.

- A glimpse into company audit gives an idea of appointing a company auditor, and the Procedure of audit in a company etc. along with the rules of company and corporate audit.

Course Outcomes

- Students learnt a lot about basics of audit and auditing, internal and external check, periodic audit, internal audit external audit , continuous audit , cost audit, management audit and annual audit.
- Students learnt Audit Planning and Audit Documentation and Evidence.
- Students understood the standard on Auditing, Vouching & Verification Vouching, Verification of Assets and Liabilities.
- A glimpse into company audit gave an idea of appointing a company auditor, and the Procedure of audit in a company etc.along with the rules of the company and corporate audit.

Financial Accounting-V Semester-VI

Course Objectives and Course Outcomes

Unit No. I - Accounting of Holding Company.

- Objective - To make the students understand Accounting of Holding Company
- Outcome - Students understood the following topics Accounting of Holding Company.

Unit No. 2 - Insurance Claims.

- Objective - To make the students understand the Insurance Claims.
- Outcome - Students understood the following topics Insurance Claims.

Unit No. 3 - Investment Accounts.

- Objective - To make the students understand Investment Accounts.
- Outcome - Students understood the topic- Investment Accounts.

Unit No. 4 - Profit Prior to Incorporation.

- Objective - To make the students understand the Profit Prior to Incorporation.
- Outcome - Students understood the topic- Profit Prior to Incorporation.

Management Accounting

Course Objectives and Course Outcomes

Course Objectives

- To make the students get a clear idea about the concept, objectives, importance and benefits of management accounting along with the basic advantages and significance of various techniques of management accounting and Break-Even Point Analysis.
- A good idea of preparing various budgets like cash budget, flexible budgets and capital budgets help in drafting budget and budget control measures in organizations.
- Students get a clear idea of Ratio Analysis like- Computation of Profitability Ratio, Financial Ratio with special reference to Current Ratio, Classification of Ratio, Liquid Ratio, Inventory Turnover Ratio, Debtors and Creditors Turnover Ratio, Debt-Equity Ratio, Working Capital Ratio, Earnings per Share Ratio.
- To make the students understand and get a clear idea of the Fund Flow Statement.

Course Outcomes

- Student got a clear idea about the concept, objectives, importance and benefits of management accounting along with the basic advantages and significance of various techniques of management accounting and Break-Even Poing Analysis.
- Understood good ideas of preparing various budgets like cash budget, flexible budgets and capital budgets help in drafting budget and budget control measures in organizations.
- Students understood clear idea of Ratio Analysis like- Computation of Profitability Ratio, Financial Ratio with special reference to Current Ratio, Classification of Ratio, Liquid Ratio, Inventory Turnover Ratio, Debtors and Creditors Turnover Ratio, Debt-Equity Ratio, Working Capital Ratio, Earnings per share Ratio.
- Understood and got clear idea of Fund Flow Statement

Advanced Statistics

Course Objectives and Course Outcomes

Objective - To make the students understand the Accounting of Correlation

Outcome - Students understood the following topics. Correlation Company

Unit No. 2 - Regression.

Objective- To make the students understand Regression.

Outcome - Students understood the Regression.

Unit No. 3 - Index Number.

Objective - To make the students to understand Index Number.

Outcome - Students understood the following topics Index Number.

Unit No. 4 - Time Series Analysis.

Objective - To make the students understand Time Series Analysis.

Outcome- Students understood the Time Series Analysis.

Indian Economics –II

Course Objectives and Course Outcomes

Unit I

Indian Agriculture

Objective- To make the students understand the Indian Agriculture.

Outcome-Students applied the knowledge.

Unit II

Indian Industry

Objective- To make the students understand the Indian Industry.

Outcome-Students created the knowledge.

Unit III

India's Service Sector and International Trade

Objective- To make the students understand the India's International Trade.

Outcome-Students developed the knowledge.

Unit IV

Contribution of Indian Economic Thinkers

Objective- To make the students understand the contribution of Indian Economic Thinkers (Mahatma Gandhi, Pandit Dindayal Upadhyaya, Dr. B. R. Ambedkar, Dr. Ram Manohar Lohiya.)

Outcome-Students understood the contribution of Indian Economic Thinkers (Mahatma Gandhi, Pandit Dindayal Upadhyaya, Dr. B. R. Ambedkar, Dr. Ram Manohar Lohiya.)

Human Resource Management

Course Objectives and Course Outcomes

Unit I-

Introduction

Objective- To make the students understand the concept of Human Resources Management & Human Resource Manager.

Outcome-Students understood the concept of Human Resources Management & Human Resource Manager.

Unit II-

Recruitment, selection and training

Objective- To make the students understand the Recruitment, selection and training

Outcome-Students understood the Recruitment, selection and training

Unit III-

Labor welfare and collective bargaining

Objective- To make the students to understand the Labor welfare and collective bargaining.

Outcome-Students understood the Labor welfare and collective bargaining.

Unit IV-

Human Resource Planning and Accounting

Objective- To make the students understand the Human Resource Planning and Accounting.

Outcome-Students understood Human Resource Planning and Accounting.

Industrial Law

Course Objectives and Course Outcomes

Course Objectives

- To make the students to understand The Indian Factories Act, 1948 and The Industrial Disputes Act, 1947.

- Learners learn Laws Relating to Wages, Laws Relating to Bonus and Gratuity, Laws Relating to Employee's State Insurance and Provident Fund and Laws Relating to Workmen Compensation and Maternity Benefits.
- To make the students to understand Child Labour Act, 1986, Trade Union Act, 1926, International Labour Organisation – ILO and Contract Labour Act, 1971.
- Students will be able to understand the meaning and nature of Industrial Estate, Technology Park, SEZ and Co-operative Industrial Estate.
- Learners learn Intellectual Property Rights Law in India and Environment Protection Act, 1986.

Course Outcomes

- Understood The Indian Factories Act, 1948 and The Industrial Disputes Act, 1947.
- Learned Laws Relating to Wages, Laws Relating to Bonus and Gratuity, Laws Relating to Employee's State Insurance and Provident Fund and Laws Relating to Workmen Compensation and Maternity Benefits.
- Understood Child Labour Act, 1986, Trade Union Act, 1926, International Labour Organisation – ILO and Contract Labour Act, 1971.
- Understood the meaning and nature of Industrial Estate, Technology Park, SEZ and Co-operative Industrial Estate.
- Learners learnt Intellectual Property Rights Law in India and Environment Protection Act, 1986.

Bachelor of Science (B.Sc.)

Semester-I

Department of English Compulsory English

Course Objectives and Course Outcomes

Unit I: Objective- Making students' conscious about the functioning of Democracy.

Outcome- Students tried to understand the importance of democracy.

Unit II: Objective- Making students understand slavery and its effects.

Outcome- Students tried to understand the effects of slavery and its punishing practice.

Unit III: Objective- to make students understand correct usage of Tense, Transformation of sentences and Common errors.

Outcome- Students tried to solve the examples of Tense, Transformation of sentences and Common errors.

Unit IV: Objective- To create the ability of writing Curriculum Vitae.

Outcome- Students attempted to write the Curriculum Vitae.

Unit I: Objective- Making students conscious of slavery, education, and compassion.

Outcome- Students understood the issues related with slavery, education and struggle in life.

Unit II: Objective- Making students understand about Self- reliance, Indian Freedom and words of wisdom.

Outcome- students understood about Self- reliance, Indian Freedom and words of Wisdom.

Unit III: Objective-To make students understand the value of struggle, Kindness and honesty.

Outcome- students understood the value of struggle, Kindness and honesty.

Unit IV: Objective-To create the ability of writing and comprehension.

Outcome-Students attempted to write and comprehend the passage.

**Department of Marathi
Course Objectives and Outcomes**

Course Objectives

उद्दिष्टे:- १. मराठी भाषेविषयी विद्यार्थ्यांमध्ये अभिरुची निर्माण करणे.

२. साहित्यलेखनाची व वाचनाची आवड निर्माण करणे.

३. विद्यार्थ्यांमध्ये असलेल्या सुप्त कलांगुणांना वाव देऊन त्यांच्यात साहित्यविषयक वृद्धिंगत करणे.

४. साहित्यातून मानवतावादी दृष्टिकोण रुजविणे.

५. साहित्यातून समाजातील प्रश्नांना वावा फोडून त्याचे निराकरण करणे.

ध्येय:- १. भावी काळात विद्यार्थ्यांमधून साहित्यनिर्मिती करणे.

२. अध्यापन व अध्ययनात विद्यार्थ्यांना सहभागी करून संवादशील वातावरण निर्मिती करणे.

३. विभागात विविध उपक्रमांचे आयोजन करून मराठी भाषेचा दर्जा वाढविणे.

४. विद्यार्थ्यांमध्ये संशोधनवृत्ती वृद्धिंगत करणे.

५. मराठी भाषेची प्रयोगशाळा निर्माण करणे.

Course Outcomes

साहित्य सेतू

CO1 विद्यार्थ्यांमध्ये साहित्य विषयक आवड निर्माण करणे

CO2 वाचन संस्कृतीचा पुरस्कार करणे

CO3 भारतीय संविधानाचे महत्व समजावून सांगणे

CO4 मानवी मुल्यांची जपणूक करणे

CO5 कविता लंखनाचे तंत्र अवगत करणे

CO6 पर्यावरण विषयक जागृती निर्माण करणे

CO7 व्यावहारिक मराठीचे महत्व समजावून सांगणे

Department of Chemistry
Programme Educational Objectives (PEOS)

PEO1: Graduates will pursue higher studies in related fields including management

PEO2: Graduates will perform as employee in private/government institutions rising up to top positions

PEO3: Graduates will become entrepreneurs.

PEO4: Graduates will prepare for various competitive examinations.

Programme Specific Outcomes (PSOs)

PSO-1: Gain the knowledge of Chemistry through theory and practical.

PSO-2: To explain nomenclature, stereochemistry, structures, reactivity, and mechanism of the chemical reactions.

PSO-3: Identify chemical formulae and solve numerical problems.

PSO-4: Use modern chemical tools, Models, Chem-draw, Charts and Equipment's.

PSO-5: Know structure-activity relationship

PSO-6: Understand good laboratory practices and safety.

PSO-7: Make aware and handle the sophisticated instruments/equipment.

PSO-8: Develop research-oriented skills.

PSO-9: Study and understand the different techniques used in purification of compounds

Programme Outcomes (POs)

- The students are expected to understand the fundamentals, principles, and recent developments in the subject area.
- It is expected to inspire and boost interest of the students towards chemistry as the main subject.
- To impart practical skills and learn basics behind experiments
- To prepare background for advanced and applied studies in chemistry.
- To inculcate the scientific temperament in the students and outside the scientific community.
- To inculcate the scientific temperament in the students and outside the scientific community.
- Use modern techniques, decent equipment and Chemistry software

Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: First/First

Subject: Chemistry

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
FY	101.1	<ul style="list-style-type: none">• To understand the basic structure of

Paper-I Inorganic Chemistry (101)		atom. <ul style="list-style-type: none"> • Understand shape of orbitals. • Understand periodic properties such as atomic and ionic radii, ionization energy, electron affinity etc.
	101.2	<ul style="list-style-type: none"> • To understand the concept of covalent bond. • To understand the bond parameters and various types of types of hybridization. • To understand the ionic structures with respect to NaCl and CsCl.
	101.3	<ul style="list-style-type: none"> • Understand s block element and their properties such as electronic configuration, atomic and ionic radii, I.P. etc. • Understand chemical properties of the noble gases, preparation, structures, bonding and applications.
	101.4	<ul style="list-style-type: none"> • To understand the P block element. Comparative study of groups 15,16, 17 with respective their properties. • Understand the Hydrides, Oxides, Peroxyacids, Hydrides.
FY Paper-II Physical Chemistry (102)	102.1	<ul style="list-style-type: none"> • Understand the common thermodynamics terms. Types of systems and varies thermodynamics processes. • State and path functions and their differentiation. • Understand the first law of thermodynamics.
	102.2	<ul style="list-style-type: none"> • Understand gas equation and laws. • Understand qualitative discussion of the Maxwell-Boltzmann distribution. • Understand ideal gas and real gases behaviors.
	102.3	<ul style="list-style-type: none"> • Understand the Intermolecular forces, structure of liquid, structural difference between solid, liquid and gases. • Properties of liquid like surface tension, viscosity, refractive index.
	102.4	<ul style="list-style-type: none"> • Understand the concept of different types of surface phenomenon and catalytic property, like Adsorption mechanism of adsorption, factor affecting adsorption. Difference between adsorption and absorption, etc. • Understand types of catalysis and

		enzymes.
F.Y. Chemistry Practical Course	103	<ul style="list-style-type: none"> • Verify theoretical principles experimentally • Interpret the experimental data • Improve analytical skills • Correlate the theory and experiments and understand their importance

Department of Physics

Programme Educational Objectives (PEOS)

- **PEO1:** Graduates will pursue higher studies in related fields including management
- **PEO2:** Graduates will perform as employee in private/government institutions rising up to top positions
- **PEO3:** Graduates will become entrepreneurs.
- **PEO4:** Graduates will prepare for various competitive examinations.

Programme Specific Objectives (PSOS)

- **PSO-1:** Gain the knowledge of Physics through theory and experiments.
- **PSO-2:** Understand good laboratory practices and safety.
- **PSO-3:** Develop research-oriented skills.
- **PSO-4:** Make aware and handle the sophisticated instruments/equipments.

Programme Outcomes (POs)

- Bachelor of Science offers theoretical as well as practical knowledge about different subject areas.
- This course forms the basis of science for coherent understanding of the academic field to pursue multi and interdisciplinary science careers in future. These subject areas include Physics, Chemistry, Mathematics and Botany and Zoology.
- Able to plan and execute experiments or investigations, analyze and interpret data information collected using appropriate methods
- It helps to develop scientific temper and thus can prove to be more beneficial for the society as the scientific developments can make a nation or society to grow at a rapid pace through research.

- Think critically; follow innovations and developments in science and technology.

Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: First/First

Subject: Physics

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
Paper 1: Properties of Matter and Mechanics (101)	101.1	<ul style="list-style-type: none"> • Understand the mechanical behavior of the material and the fundamental terminology like Stress, Strain, Poisson's ratio, Hooks law, bending moment and modulus of elasticity
	101.2	<ul style="list-style-type: none"> • Understand the concept of viscosity. • Apply Poiseuille's Equation, Bernoulli's Theorem, Stoke's law and the concept of terminal velocity.
	101.3	<ul style="list-style-type: none"> • Understand the concept of surface tension and surface energy, Newton's laws of motion and to resolve the components of velocity and acceleration in different coordinate system.
	101.4	<ul style="list-style-type: none"> • Understand the System of particles and conservation laws.
Paper 2: Electrostatics, Time varying fields & Electric Currents (102)	102.1	<ul style="list-style-type: none"> • Understand the concept of Electrostatic force, Electric field, Electric potential, Electric dipole, Electric dipole moment.
	102.2	<ul style="list-style-type: none"> • Understand the concept of polarization and capacitors with and without dielectric. • Apply Gauss law to parallel plate capacitor.
	102.3	<ul style="list-style-type: none"> • To understand the concept of electromagnetic induction and transformer. • Apply equation of continuity and Kirchhoff's law to rise and decay of current in LR, CR and LCR circuits.
	102.4	<ul style="list-style-type: none"> • To apply complex number in solving an a.c. circuit. • Apply j- operator in LR, CR and LCR circuit. • Understand the concept of Resonance • Calculate I, Z, Φ and fr.
Physics Practical (103)	103	<ul style="list-style-type: none"> • Apply and demonstrate the theoretical concepts of Physics and to develop scientific attitude. • Interpret the experimental data

Department of Mathematics

Programme Educational Objectives (PEOs): B.Sc. (Mathematics)

1.	Graduates will pursue higher studies in related fields including management
2.	To prepare necessary knowledge base for research and development in Mathematics
3.	To help student's build-up a successful career in Mathematics

Programme Specific Outcomes (PSO): B.Sc. (Mathematics)

1.	Enhance students' ability to develop mathematical models
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2.	Develop research-oriented skills.
3.	Nurture problem solving skills, thinking, and creativity through assignments, project Work.
4.	Prepare for various competitive exams

Programme Outcomes (POs): B.Sc. (Mathematics)

1.	Understand and solving of major concepts in all disciplines of mathematics.
2.	Solve the problem and also think methodically, independently and draw a logical conclusion.
3.	To inculcate the scientific temperament in the students and outside the scientific community.
4.	Create an awareness of the impact of mathematics on society and development outside the scientific community.
5.	Gain experience investigating the real-world problems and learn to how to apply Mathematical ideas and models to those problems.
6.	Understand and able to use mathematical formulae in another subject.

COURSE OUTCOMES (COs)

Course Name: B. Sc.

Year/Semester: First/First

Subject: Mathematics

After successful completion of three-year degree programme in **Mathematics** students should be able to;

Paper	CO	Outcomes
FY Paper-I Algebra and Trigonometry 101	101.1	Understand the basic concept related to Matrices and solve the problem based on a system of Linear equations
	101.2	Understand the general properties of equations and Solutions of Different equations
	101.3	Understand the basics of complex numbers and solve the problems
	101.4	understand Group theory and general properties
FY Paper-II 102 Calculus	102.1	Using Definition, verify the values of limit and continuity and solve the problem on Differentiation
	102.2	Understand the concept of Maclaurins and Taylor's theorem Identify Indeterminate forms and application of L'Hospitals Rule
	102.3	Understand the concept of partial differential equation, Eulers Theorem and Jacobians
	102.4	Identify the various types and methods to solve Integration and application of Reduction Formulae

Department of Zoology

PROGRAMME EDUCATIONAL OBJECTIVES (PEOs):

1.	Graduates will pursue higher studies in related fields including management
2.	Graduates will perform as employers in private/government institutions rising up to top positions
3.	Graduates will become entrepreneurs.

PROGRAMME OUTCOMES (PO)

1.	The students are expected to understand the fundamentals, principles, and recent developments in the subject area.
2.	It is expected to inspire and boost interest of the students towards zoology as the main subject.
3.	To impart practical skills and learn basics behind experiments.
4.	To prepare background for advanced and applied studies in zoology.
5.	To inculcate the scientific temperament in the students and outside the scientific community.
6.	To inculcate the scientific temperament in the students and outside the scientific community.
7.	Use modern techniques, decent equipments and Zoology softwares.

PROGRAMME SPECIFIC OUTCOME

1.	Gain the knowledge of Zoology through theory and practicals.
2.	Use modern biological tools, Models, Charts and Equipment's.
3.	Know structure-activity relationship.
4.	Understand good laboratory practices and safety.
5.	Make aware and handle the sophisticated instruments/equipment.
6.	Develop research-oriented skills.
7.	Study and understand the different technique used in purification of compounds

COURSE OUTCOMES (COs)

Course Name: B. Sc.

Year/Semester: First/First

Subject: Zoology

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
FY Paper-I Life and Diversity of Animals –	101.1	To understand general characters and classification up to classes of protozoa, structure and reproduction of <i>Paramecium</i> , structure and life cycle of <i>Plasmodium</i> , parasitic Protozoans of Man (Entamoeba, Trypanosoma, Giardia and Leishmania). Mode of infection and its control.

Non-chordates (Protozoa to Annelida) (101)	101.2	To understand the general characters and classification up to classes of porifera, Structure, reproduction and development, Canal system in sponges, General characters and classification up to classes of Coelenterata, structure and life cycle of Obelia, Polymorphism in hydrozoa.
	101.3	To Understand the Helminthes: General characters and classification up to classes, <i>Ascaris</i> : External morphology, reproductive system and life cycle, <i>Taenia solium</i> : Structure and life cycle, Elementary idea of parasitic adaptations in helminthes
	101.4	To Understand the Annelida : General characters and classification up to classes, Leech : Morphology, digestive and urinogenital system, Trochophore larva and its significance, Vermiculture and its importance
FY Paper-II Environmental Biology (102)	102.1	To understand the Atmosphere: Major zones and its importance, composition of air, Hydrosphere: Global distribution of water, Physico-chemical characteristics of water, Lithosphere: Types of rocks, formation of soil, Renewable and non-renewable energy sources
	102.2	Understand the Ecosystem - Definition and types, Detailed study of pond ecosystem, Food chain, food web and ecological pyramids, Energy flow in an ecosystem, Single channel, Y – shape and Universal model
	102.3	To understand the Biodiversity and its conservation, Causes of reduction of biodiversity, Wildlife conservation acts (1972 and 1984), Introductory study of national parks and sanctuaries – Tadoba, Kanha, Bharatpur and Nagzira, Hot spots of biodiversity in India
	102.4	To understand the Sources, effect and control measures of air pollution, Acid rain, green house effect, ozone depletion and global warming, Sources, effect and control measures of water pollution, Sources effect and control measures of noise pollution, Toxic effect of heavy metals (lead, cadmium and mercury) – Bioaccumulation and biomagnification
F.Y. Zoology Practical Course	103	<ul style="list-style-type: none"> • Verify theoretical principles experimentally • Interpret the experimental data • Improve analytical skills • Correlate the theory and experiments and understand their importance

Department of Botany

PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)	
1.	Graduates will pursue higher studies in related fields including management
2.	Graduates will perform as employee in private/government institutions rising up to top positions
3.	Graduates will become entrepreneurs.

4.	Graduates will prepare for various competitive examinations.
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PO1. Understanding of Plant Diversity and its importance in the maintenance of ecological balance.

PO2. Students learn to carry out practical work, in the field and in the laboratory, interpreting plant morphology and anatomy, Plant identification, Vegetation analysis techniques.

PO3. Apply the knowledge of basic science, life sciences and fundamental process of plants.

PO4. Apply modern techniques and instruments for Biochemical estimation, Molecular Biology, Biotechnology, Plant Tissue culture experiments, cellular and physiological studies of plants with an understanding of the applications in human life.

PO5. Apply the knowledge gained from the studies for the upliftment of society via addressing health, environmental issues, food scarcity etc.

PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

PSO1. Critical evaluation of ideas and arguments by collecting relevant information about the plants, so as to recognize the irposition in the classification systems and at phylogenetic level.

PSO2. Students will be able to access the primary literature, identify relevant works for a particular topic, and evaluate the scientific content of these works

PSO3. Students will be able to compare and contrast the characteristics of the different groups of plants such as algae, fungi, bryophytes, pteridophytes, gymnosperms and angiosperms.

PSO4. Students will be able to use the evidence of comparative biology to explain how the theory of evolution offers the only scientific explanation for the unity and diversity of life on earth.

PSO5. Students will be able to explain how Plants function at gene, genome, cellular and tissue level,

PSO6. Students will be able to relate the physical features of the environment to the structure of populations, communities, and eco systems.

PSO7. Students will be able to conceive the idea of artificial propagation of plants via vegetative methods and to find a livelihood via establishing miniature plant nurseries

Course Name: B. Sc.

Year/Semester: First/First

Subject: Botany

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
FY Paper-I Viruses, Prokaryotes, Algae And Biofertilizers (101)	101.1	<ul style="list-style-type: none"> To understand the nature of viruses, Ultra-structure and economic importance. Understand the properties of Mycoplasma and its reproduction. Understand general characteristics and reproduction in bacteria.
	101.2	<ul style="list-style-type: none"> To understand general characteristics and classification of algae

		<ul style="list-style-type: none"> To understand the to understand general structure of Cyanobacteria and its reproduction.
	101.3	<ul style="list-style-type: none"> Understand life cycle of <i>Chara</i>, <i>Vaucheria</i>, <i>Ectocarpus</i>, and <i>Batrachospermum</i>.
	101.4	<ul style="list-style-type: none"> To understand Scope and importance of Biofertilizers. Understand the microbes used in biofertilizers.
FY Paper-II Fungi, Plant Pathology, Lichens, Bryophyta and Mushroom Cultivation (102)	102.1	<ul style="list-style-type: none"> Understand the Characteristics of fungi. Understand the reproduction and life cycle of <i>Albugo</i>, <i>Mucor</i>, <i>Puccinia</i> and <i>Cercospora</i>.
	102.2	<ul style="list-style-type: none"> Pathogen study, control and causes of diseases : leaf curl of papaya, Citrus canker and red rot of sugarcane
	102.3	<ul style="list-style-type: none"> Understand classification and general characteristics of Bryophyta. Life history of <i>Marchantia</i>, <i>Anthoceros</i> and <i>Funaria</i> To Study the nutritional and medicinal values of edible and non-edible mushrooms. Technology of mushroom cultivation
F.Y. Chemistry Practical Course	103	<ul style="list-style-type: none"> Study the fungal genera. Study the lichens, thallus structure and types of lichens. Plant pathological study. Study of bryophytes and identification of its characteristics. Preparation of mushroom beds.

Semester II
Department of English
Course Objectives and Outcomes
Compulsory English

Unit I : Objective-Making students conscious about the functioning of Democracy.

Outcome-Students tried to understand the importance of democracy.

Unit II: Objective- Making students understand slavery and its effects.

Outcome-Students tried to understand the effects of slavery and its punishing practice.

Unit III: Objective-To make students understand correct usage of Tense, Transformation of sentences and Common errors.

Outcome-Students tried to solve the examples of Tense, Transformation of sentences

and Common errors..

Unit IV: Objective-To create the ability to write Curriculum Vitae.

Outcome-Students attempted to write the Curriculum Vitae.

**Department of Marathi
Course Objectives and Outcomes
Programme Objectives**

- उद्दिष्टे:-
1. मराठी भाषेविषयी विद्यार्थ्यांमध्ये अभिरुची निर्माण करणे.
 2. साहित्यलेखनाची व वाचनाची आवड निर्माण करणे.
 3. विद्यार्थ्यांमध्ये असलेल्या सुप्त कलांगुणांना वाव देऊन त्यांच्यात साहित्यविषयक वृद्धिंगत करणे.
 4. साहित्यातून मानवतावादी दृष्टिकोण रुजविणे.
 5. साहित्यातून समाजातील प्रश्नांना वाचा फोडून त्यांचे निराकरण करणे.

Course Outcomes

साहित्य सेतू

- ध्येय:-
1. भावी काळात विद्यार्थ्यांमधून साहित्यनिर्मिती करणे.
 2. अध्यापन व अध्ययनात विद्यार्थ्यांना सहभागी करून संवादशील वातावरण निर्मिती करणे.
 3. विभागात विविध उपक्रमांचे आयोजन करून मराठी भाषेचा दर्जा वाढविणे.
 4. विद्यार्थ्यांमध्ये संशोधनवृत्ती वृद्धिंगत करणे.
 5. मराठी भाषेची प्रयोगशाळा निर्माण करणे.

**Department of Chemistry
Course Outcomes (COs)**

Course Name: B. Sc.

Year/Semester: First/ Second

Subject: Chemistry

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
FY Paper -I Organic Chemistry (201)	201.1	<ul style="list-style-type: none">• To make students understand different organic compounds and the concept structure and bonding in organic compounds.• Understand the mechanism of organic reaction.
	201.2	<ul style="list-style-type: none">• Understand the concept of stereochemistry of organic compounds.

		<ul style="list-style-type: none"> To make the structure of Geometrical isomerism and conformational isomerism.
	201.3	<ul style="list-style-type: none"> Many of the daily used materials are organic compounds and majority of them are hydrocarbons therefore this topic makes the concept regarding their information
	201.4	<ul style="list-style-type: none"> Basic of the alkane and alkynes with respect to their chemical point of view. To understand the aromaticity of organic compounds.
F.Y. Pape-II Physical Chemistry (202)	202.1	<ul style="list-style-type: none"> To understand the thermodynamics of chemical reactions. Understand free energy functions like work function, Gibb's free energy etc.
	202.2	<ul style="list-style-type: none"> To understand the concept of phase equilibria. Statement of phase rule and term. Application of phase rule
	202.3	<ul style="list-style-type: none"> Understand the concept of nuclear chemistry and molecular structure
	202.4	<ul style="list-style-type: none"> To Understand the concept of chemical kinetics and theories of chemical kinetics.
F.Y. Chemistry Practical course	203	<ul style="list-style-type: none"> Verify theoretical principles experimentally Interpret the experimental data Improve analytical skills Correlate the theory and experiments and understand their importance

**Department of Physics
Course Outcomes (COs)**

Course Name: B. Sc.

Year/Semester: First/Second

Subject: Physics

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
Paper 1: Oscillations, Kinetic theory of gases and Thermodynamics (201)	201.1	<ul style="list-style-type: none"> To understand the concept of linear and angular S.H.M., Damped harmonic oscillator
	201.2	<ul style="list-style-type: none"> To understand the concept of Forced oscillation with one degree of freedom and kinetic theory of gasses.
	201.3	<ul style="list-style-type: none"> To understand the Transport phenomenon in gases, Zeroth and First law of thermodynamics and Carnot's Theorem
	201.4	<ul style="list-style-type: none"> To understand second and third law of thermodynamics and Maxwell's general relationship and its applications

Paper 2: Gravitation, Astrophysics, Magnetism and Magnetostatics (202)	202.1	<ul style="list-style-type: none"> To understand Newton's laws of gravitation and the concept of Gravitational self-energy of the galaxy
	202.2	<ul style="list-style-type: none"> Know the constituents of universe (Solar system, Stars, Galaxies) and some physical aspects of universe
	202.3	<ul style="list-style-type: none"> To understand the concepts of Diamagnetism, Paramagnetism and Ferromagnetism and their applications
	202.4	<ul style="list-style-type: none"> To understand the Concept of magnetic field and to study various laws of magneto static and their applications.
Physics Practical (203)	203	<ul style="list-style-type: none"> Apply and demonstrate the theoretical concepts of Physics and to develop scientific attitude.

Department of Mathematics
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: First/ Second

Subject: Mathematics

After successful completion of three-year degree programme in **Mathematics** students should be able to;

Paper	CO	Outcomes
FY Paper-I 201 Geometry, Differential and Difference Equations	201.1	Understand the concept of Solid Geometry
	202.2	Identify and solve the problems on Differential equations of first order
	203.3	Understand the Higher order linear differential equations with constant coefficient
	204.4	Understand the basic concept of Difference equation
FY Paper-II 202	202.1	Students learn the concept of Vector differentiation and Line Integral
	202.2	Learn the evaluation of area by double Integral
	202.3	Apply integration to evaluate over surface and volume
	202.4	Evaluate Improper Integrals also study the gamma and Beta functions

Department of Zoology
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: First/Second

Subject: Zoology

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
FY Paper -I Life and Diversity of Animals – Nonchordates (Arthropoda to	201.1	To understand the, Arthropoda : General characters and classification up to classes, Cockroach : Mouth parts, digestive system and reproductive system, Insects as Vectors : Mosquito, Housefly, Sandfly, Tse-Tse fly, Study of crustacean larvae : Nauplius, Zoea and Megalopa; Social behavior in honey bees

Hemichordata) (201)	201.2	To understand the Mollusca : General characters and classification up to classes, <i>Pila</i> : Morphology, digestive, respiratory and reproductive system, Pearl formation in Mollusca, Molluscan larvae : Glochidium and Veliger
	201.3	To understand the Echinodermata : General characters and classification up to classes, <i>Asterias</i> : External features and digestive system, Water vascular system and locomotion in Starfish, Echinoderm larvae : Bipinnaria and Auricularia
	201.4	To understand Hemichordata : General characters and phylogeny, <i>Balanoglossus</i> : External features and digestive system, Reproduction in <i>Balanoglossus</i> , Tornaria larva, Affinities of <i>Balanoglossus</i>
F.Y. Paper-II Cell Biology (202)	202.1	To understand the Ultrastructure of prokaryotic and eukaryotic cell, Plasma membrane: Structure- Fluid Mosaic Model and functions, Endoplasmic reticulum: Types, ultrastructure and functions, Golgi complex: Ultrastructure and functions
	202.2	To understand Ultrastructure of mitochondria, Oxidative phosphorylation – Glycolysis and Krebs's cycle, Electron Transport Chain and terminal oxidation, Lysosome: Structure, polymorphism and functions
	202.3	To understand the Nucleus: Ultrastructure of nuclear membrane, Structure and functions of nucleolus, Chromosome: Structure and types, structure of nucleosome, Giant chromosomes: Lamp-brush and polytene chromosome
	202.4	To understand the Ribosome: Structure, types, Lake's model and functions, Somatic cell division: Cell cycle and Mitosis, Meiosis (different phases and significance), synaptonemal complex, Cellular ageing and cell death, Elementary idea of cancer and its causative agents
F.Y. Zoology Practical course	203	<ul style="list-style-type: none"> • Verify theoretical principles experimentally • Interpret the experimental data • Improve analytical skills • Correlate the theory and experiments and understand their importance

Department of Botany
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: First/Second

Subject: Botany

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
FY Paper -I Paleobotany, Pteridophytes, Gymnosperms and Soil	201.1	<ul style="list-style-type: none"> • To make students understand fossils, Pseudofossils, and its importance. • Knowledge about types of fossils. • Details of Geological time scale.

Analysis (201)		<ul style="list-style-type: none"> Differentiation among the types of fossil.
	201.2	<ul style="list-style-type: none"> Study the general characteristics of Pteridophytes and its classification. Life history of <i>Selaginella</i>. And <i>Equisetum</i>.
	201.3	<ul style="list-style-type: none"> Classify the Gymnosperms, its characteristics and economic importance. Understand the fossil gymnosperm. Study the life cycle of <i>Cycas</i> and <i>Pinus</i>
	201.4	<ul style="list-style-type: none"> Skill development and soil analysis. Identification of types of soil on the basis of its color and texture. Study the physical properties of soil. Understand the pH of soil and nitrogen availability in it.
F.Y. Pape-II Morphology of Angiosperms and Floriculture (202)	202.1	<ul style="list-style-type: none"> Study the morphological characteristics of plants. Identification of morphological characters of plants. Study the modification occur in root, stem and leaf.
	202.2	<ul style="list-style-type: none"> Study the reproductive morphology. Study the types of inflorescence. Study the calyx, corolla and Androecium.
	202.3	<ul style="list-style-type: none"> Understand the structure of gynoecium. Study the fruit and its types.
	202.4	<ul style="list-style-type: none"> Develop the skills of floriculture and cultivation Method of cultivation.
F.Y. Botany Practical course	203	<ul style="list-style-type: none"> Study of different root and stem modification and branching patterns. Study the types of leaf and its phyllotaxy, venation and modification. Understand the flower structure and position of calyx, corolla, androecium and gynoecium.

Semester-III
Department of Chemistry
COURSE OUTCOMES (COs)

Course Name: B. Sc.

Year/Semester: Second/Third

Subject: Chemistry

After the successful completion of the course, students will be able to-

Paper	CO	Outcomes
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S.Y Paper-I Inorganic Chemistry (301)	301.1	<ul style="list-style-type: none"> Understand the concept of molecular orbital theory and VSEPR theory.
	301.2	<ul style="list-style-type: none"> Understand the properties of d and f block elements.
	301.3	<ul style="list-style-type: none"> Understand the role of nonaqueous solvents. Understand concept of errors and evaluation in chemical analysis.
	301.4	<ul style="list-style-type: none"> Understand the concept of chemistry of Lanthanides and Actinides series.
S.Y. Paper-II Organic Chemistry (302)	302.1	<ul style="list-style-type: none"> Understand the structure and chemical bonding in aryl, alkyl halides, and aldehydes.
	302.2	<ul style="list-style-type: none"> Understand the structure and chemical bonding in alcohols and phenols.
	302.3	<ul style="list-style-type: none"> Understand the nomenclature, structure of the carbonyl group, synthesis of aldehydes and ketones
	302.4	<ul style="list-style-type: none"> Understand chemical reaction of carboxylic acids and its derivatives.
S.Y. Chemistry Practical Course	303	<ul style="list-style-type: none"> Verify theoretical principles experimentally Interpret the experimental data Improve analytical skills Correlate the theory and experiments and understand their importance

**Department of Physics
COURSE OUTCOMES (COs)**

Course Name: B. Sc.

Year/Semester: Second/Third

Subject: Physics

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
Paper 1: Sound Waves, Applied Acoustic, Ultrasonic and Power Supply (301)	301.1	<ul style="list-style-type: none"> Understand the concept of group and phase velocities, formation of standing waves and diagrammatic introduction of human ear and its responses.
	301.2	<ul style="list-style-type: none"> Understand the working of transducers and their characteristics and the concept of acoustic and its applications.
	301.3	<ul style="list-style-type: none"> Understand the production and applications of ultrasonic waves.
	301.4	<ul style="list-style-type: none"> Understand the concept of voltage regulation and working of the half, full and bridge rectifier.
Paper 2: Physical Optics and Electromagnetic	302.1	<ul style="list-style-type: none"> Understand the concept of interference of light through thin film Apply the concept of interference of light through

Waves (302)		thin film in wavelength determination.
	302.2	<ul style="list-style-type: none"> Understand the concept of diffraction, Resolving Power of grating and Rayleigh's criterion for resolution.
	302.3	<ul style="list-style-type: none"> Understand the concept of polarization and double refraction
	302.4	<ul style="list-style-type: none"> Understand the origin and characteristics of EM waves, Physical significance of Maxwell's equations, Characteristics impedance of dielectric and Poynting theorem.
Physics Practical (303)	303	<ul style="list-style-type: none"> Apply and demonstrate the theoretical concepts of Physics and to develop scientific attitude.

Department of Mathematics
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Second/Third

Subject: Mathematics

After successful completion of three-year degree programme in Mathematics students should be able to;

Paper	CO	Outcomes
SY Paper-I 301 Advanced Calculus, Sequences &Series	301.1	Students understand Mean Value theorem
	301.2	Learn about an envelope of a family of curves in the plane and study the Lagranges Multiplier method
	301.3	Understand the concept of sequence
	301.4	Use Tests for convergence
SY Paper-II 302 Differential Equation and Group Homomorphism	302.1	Understand the concept of Special Functions(Bessels and Legendre's function)
	302.2	Students understand the concept of Laplace Transform and solve the problems
	302.3	Applications of Laplace Transform & Fourier Transform
	302.4	Students develop knowledge in group theory

Department of Zoology
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Second/Third

Subject: Zoology

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
S.Y Paper-I Life and Diversity of Animals - Chordates (Protochordata to Amphibia)	301.1	Understand the Protochordata : General characters and classification up to order, <i>Herdmania</i> : Structure, digestive system, ascidian tadpole and retrogressive metamorphosis, <i>Amphioxus</i> : Structure, digestive system, circulatory system, sense organs and protonephridia, Agnatha : General characters of Cyclostomata (<i>Petromyzon</i> and <i>Myxine</i>)
	301.2	Understand the Pisces : Salient features of Chondrichthyes and Osteichthyes, Origin of paired fins in fishes, Migration and

(301)		Accessory respiratory organs in fishes, Amphibia : General characters and classification up to order, Parental care and Neotony in Amphibia
	301.3	Understand the Gametogenesis and type of eggs, Fertilization of egg, Post fertilization development of fish, Types of scales of fishes, Development of placoid scales
	301.4	Understand the Frog Embryology - Cleavage , blastulation and gastrulation, Fate map, Morphogenetic movements in gastrula of frog, Development of respiratory organs in frog, Development of Aortic arches of frog
S.Y. Paper-II Organic Zoology (302)	302.1	Understand the Mendelian Principles- Dominant recessive relationships, Mendelian laws, Interaction of genes- Epistasis - dominant and recessive, codominance, incomplete dominance, Quantitative genetics – Polygenic traits, inbreeding and outbreeding, hybrid vigor, Extracellular genome – Presence and functions of mitochondrial DNA, plasmids
	302.2	Understand the concept of Cytoplasmic inheritance- <i>Kappa</i> particles in <i>Paramecium</i> , CO ₂ sensitivity in <i>Drosophila</i> , milk factor in mice, Linkage and crossing over – Basic concepts of linkage, types and theories, Concepts of genes – Cistron , muton and recon, Genetic disorders in human beings – Haemoglobin disorders – Thalassemia and Sickle cell anemia. Metabolic disorder: Phenylketonurea
	302.3	Understand the concept of Sex determination – ZZ, XY, XO, ZW pattern, Sex determination in <i>Drosophila</i> – Genic balance theory, Environmental sex determination in <i>Bonellia</i> , Chromosomal aberrations: addition, deletion, duplication and inversion, Gene mutations- Spontaneous and induced mutations, mutagenic agents, Disorders related to chromosomal number- Turner syndrome, Klinefelter syndrome and Down syndrome
	302.4	Understand the Lethal genes – Concepts and consequences, Population genetics: Basic concepts in population genetics, Hardy Weinberg equilibrium and its significance, Genetic counseling – Introduction , purpose, hereditary diseases and disorders, Applied genetics - DNA fingerprinting , amniocentesis, sperm banks, karyotyping
S.Y. Zoology Practical Course	303	<ul style="list-style-type: none"> • Verify theoretical principles experimentally • Interpret the experimental data • Improve analytical skills • Correlate the theory and experiments and understand their importance

Department of Botany
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Second/Third

Subject: Botany

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
S.Y Paper-I	301.1	<ul style="list-style-type: none"> • Understand the study of angiosperms, Fossil angiosperms, Angiosperms taxonomy. • Understand the nomenclature.

Botany (301)		<ul style="list-style-type: none"> • Study the trends in taxonomy.
	301.2	<ul style="list-style-type: none"> • Understand the classification system of Bentham and Hooker, Engler and Prantle.
	301.3	<ul style="list-style-type: none"> • Study the types of pollination and its significance • Study the structure of anther, pollen grain and male gametophyte development. • Study the types of ovules and female gametophyte. • Understand the fertilization process.
	301.4	<ul style="list-style-type: none"> • Study the skills of landscaping and gardening.
S.Y. Paper-II Angiosperm anatomy and Horticulture (302)	302.1	<ul style="list-style-type: none"> • Understand anatomical features of plants and its organs. • Study the tissue its types and functions.
	302.2	<ul style="list-style-type: none"> • Study the primary and secondary growth in stem and root.
	302.3	<ul style="list-style-type: none"> • Study the periderm growth rings, sap heartwood, leaf anatomy. • Study the Senescence and Abscission.
	302.4	<ul style="list-style-type: none"> • Study the techniques of horticulture, methods of propagation. • Learn the technique of bonsai preparation.
S.Y. Botany Practical Course	303	<ul style="list-style-type: none"> • Study the simplest and complex tissue from permanent micro-preparation. • Identification of types of vascular bundle. • Anatomy of Dicot and Monocot stem with temporary or double stained. • Study the internal structure of dicot and monocot leaf.

SEMESTER IV

Department of Chemistry Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Second/Fourth

Subject: Chemistry

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
S.Y. Paper-I Inorganic Chemistry (401)	401.1	<ul style="list-style-type: none"> • Understand the properties of coordination compounds. Chelates: classification and their application and valence bond theory of complexes.
	401.2	<ul style="list-style-type: none"> • Understand the concept of isomerism in coordination compounds. Concept of oxidation and reduction and balancing of redox reaction.
	401.3	<ul style="list-style-type: none"> • Understand the concept of colorimetry and spectrophotometry. • Understand the concept of separation technique like chromatography ion exchange and solvent extraction.

	401.4	<ul style="list-style-type: none"> Understand the concept of inorganic polymers.
S.Y. Paper-II Physical Chemistry (402)	402.1	<ul style="list-style-type: none"> Understand solid state and their classification and their laws. To understand the concept of determination of crystal structure.
	402.2	<ul style="list-style-type: none"> Understand electrochemistry of reversible and irreversible cells. Understand the concept of electrical transport and transport number.
	402.3	<ul style="list-style-type: none"> Use spectroscopy for chemical analysis. Understand types of spectroscopy.
	402.4	<ul style="list-style-type: none"> Understand the concept of quantum chemistry and wave function.
S.Y. Chemistry practical Course	403	<ul style="list-style-type: none"> Verify theoretical principles experimentally Interpret the experimental data Improve analytical skills Correlate the theory and experiments and understand their importance

**Department of Physics
Course Outcomes (COs)**

Course Name: B. Sc.

Year/Semester: Second/Fourth

Subject: Physics

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
Paper 1: Solid State Physics, X-ray and Laser (401)	401.1	<ul style="list-style-type: none"> Understand the basic concept of crystallography, find various lattice parameters, find Miller Indices of the given plane and draw planes from the set of Miller Indices.
	401.2	<ul style="list-style-type: none"> Understand main feature of continuous X-ray spectra and Characteristics X-ray spectra, Apply Moseley's law to determine wavelength of X-ray.
	401.3	<ul style="list-style-type: none"> Understand the basic concept of solid state physics. Apply Bragg's law for wavelength determination and simple cubic structure determination. Calculate Miller indices of the given plane and identify the orientation of the plane from the given set of Miller indices.
	401.4	<ul style="list-style-type: none"> Understand the concepts of LASER emission. Understand the construction and working of various types of LASER.
Paper 2: Solid State Electronics, and Molecular	402.1	<ul style="list-style-type: none"> Understand the construction and working and characteristics of various solid state devices.
	402.2	<ul style="list-style-type: none"> Understand the construction and working and characteristics of various FETs.

Physics (402)	402.3	• Understand the concept molecular physics.
	402.4	• Understand and apply the Raman spectroscopy.
Physics Practical (403)	403	• Apply and demonstrate the theoretical concepts of Physics and to develop scientific attitude.

Department of Mathematics
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Second/Fourth

Subject: Mathematics

After successful completion of three-year degree programme in Mathematics students should be able to;

Paper	CO	Outcomes
SY Paper-I 401 Partial Differential Equations & Calculus of Variation	401.1	Understand the concept of ordinary Differential Equations in more than two variables
	401.2	Use the methods to solve the linear and nonlinear partial differential equations of first order
	401.3	Understand the concept of Higher Partial Differential Equations
	401.4	Find the distance between the curves and understand the concept of Eulers differential equation
SY Paper-II 402 Mechanics	402.1	Students learn about Coplanar Forces, Virtual Work and Catenary
	402.2	Understand the velocity, Acceleration and simple harmonic Motion
	402.3	Understand the concept of Lagranges Equations of motion
	402.4	Learn the problem of two bodies moving under the influence of a mutual central force

Department of Zoology

Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Second/Fourth

Subject: Zoology

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
S.Y. Paper-I Life and Diversity of Animals – Chordates (Reptilia, Aves and Mammals) (401)	401.1	Understand the Reptilia- Classification based on temporal vacuities, Poison apparatus, biting mechanism , snake venom and its importance, Aves – Comparison of Ratitae and Caranitae, Flight adaptations and migration, Mammals – General characters of Prototheria, Metatheria and Eutheria
	401.2	Understand the Modern theories of evolution : Darwinism and Neo-Darwinism, Adaptations – Cursorial, Aquatic, Terrestrial, Fossorial and Volant, Introduction to genetic basis of evolution – Species Deme, Variation, Races in Man (Caucasoid, Negroid, Mongoloid and Australoid)

	401.3	Understand the Comparative account of aortic arches and heart in Reptiles, Birds and Mammals, Structure of hen's egg, Development of chick up to primitive streak stage, Development of extra embryonic membranes in chick and functions
	401.4	Understand the Frog Embryology - Cleavage , blastulation and gastrulation, Fate map, Morphogenetic movements in gastrula of frog, Development of respiratory organs in frog, Development of Aortic arches of frog
S.Y. Paper-II Molecular Biology and Immunology(402)	402.1	Understand the DNA: Structure of DNA, forms of DNA, properties of DNA, DNA as a genetic material, RNA: Structure of RNA, types of RNA, RNA as a genetic material, Prokaryotic and eukaryotic gene structure, Recombination in Bacteria: Bacterial transformation – Griffith's experiment, Conjugation in bacteria, transduction
	402.2	Understand the concept DNA replication: Semiconservative model, Meselson Stahl experiments. Process of replication – origin of replication, concept of replication, directionality of replication, Genetic code: Characteristics of genetic code, Wobble hypothesis, Protein synthesis: Transcription mechanism – Initiation , elongation and termination of transcription. Translation – activation of amino acids, transfer of activated amino acids to tRNA, Initiation, elongation and termination of polypeptide chain; inhibitors of protein synthesis, Gene regulation models- Lac operon and tryptophan operon
	402.3	Understand the Concepts of immunity – Innate and acquired immunity, organs of the immune system, Antigen - Structure, diversity, functions and types of antigen, Antibody- Structure, types and functions, Antigen-antibody interaction – Precipitation and agglutination
	402.4	Understand the Types of immune response: B cell response (antibody mediated), T cell response (cell mediated), Complement system: Basic concepts of complement cascades, classical, alternative and MBL pathways, implications of complement system in immune defense, Cytokines- General account on cytokines, Cytokine related diseases, Autoimmunity and immunodeficiencies- Autoimmune diseases and their treatment, AIDS and other immunodeficiencies
S.Y. Zoology practical Course	403	<ul style="list-style-type: none"> • Verify theoretical principles experimentally • Interpret the experimental data • Improve analytical skills • Correlate the theory and experiments and understand their importance

Department of Botany
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Second/Fourth

Subject: Botany

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
S.Y. Paper-I Cell biology, Plant Breeding, Evolution, and Technology (401)	401.1	<ul style="list-style-type: none"> • Understand the brief account of cell theory. Comparison between eukaryotic and prokaryotic cell. • Structure and function of cell wall, Endoplasmic reticulum, Golgi complex, plasma membrane, Ribosome and Vacuole.
	401.2	<ul style="list-style-type: none"> • Understand the structure and functions of chloroplast, Mitochondria and Nucleus. • Understand the chromosome morphology, Molecular organization of chromosomes. • Understand the sex chromosomes and cell division process.
	401.3	<ul style="list-style-type: none"> • Understand plant breeding, methods of plant breeding. • Understand the biostatistics and determine the Mean, Mode, Median. • Understand the evolution process.
	401.4	<ul style="list-style-type: none"> • Understand the seed development technology which is used to increase a commercial value of seeds.
S.Y. Paper-II (402)	402.1	<ul style="list-style-type: none"> • Understand the principle of Mendelism. • Understand the linkage and crossing over process.
	402.2	<ul style="list-style-type: none"> • Understand the Mutation , chromosomal aberrations and variation in chromosome number. • Understand the DNA damage and repair process.
	402.3	<ul style="list-style-type: none"> • Study the concept of DNA and RNA. • Understand the concept of gene, genetic code. • Understand the process of protein synthesis and regulation of gene interaction.
	402.4	<ul style="list-style-type: none"> • Study the skill development. • Develop the skills related with plant nursery. • Understand the nursery management techniques..
S.Y. Botany practical Course	403	<ul style="list-style-type: none"> • Study the Mendel's law of segregation with help of color beads. • Prove the Mendel's law of independent assortment. • Study the different method of vegetative propagation. • Study the method of soil sterilization for plant nursery.

SEMESTER V
Department of Chemistry
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Third/Fifth

Subject: Chemistry

After the successful completion of the course students will be able to-

Paper	CO	Outcome
T.Y. Paper-I Organic Chemistry (501)	501.1	<ul style="list-style-type: none"> Understand the concept of organic compounds of nitrogen and amines.
	501.2	<ul style="list-style-type: none"> Understand heterocyclic compounds and their structure.
	501.3	<ul style="list-style-type: none"> Understand quantitative analysis: Estimation of carbon, hydrogen and nitrogen etc. Understand reaction and structure of organometallic compounds.
	501.4	<ul style="list-style-type: none"> To study Spectroscopy. To understand Electromagnetic and Infrared absorption spectroscopy
T.Y. Paper-II Physical Chemistry (502)	502.1	<ul style="list-style-type: none"> Understand electrochemistry and various types of cells. Understand types of reversible electrodes.
	502.2	<ul style="list-style-type: none"> Understand quantum chemistry and molecular orbital theory.
	502.3	<ul style="list-style-type: none"> Understand the concept of Photochemistry. To study Raman Spectroscopy
	502.4	<ul style="list-style-type: none"> To understand colligative properties and macromolecules.
T.Y. Chemistry Practical Course	503	<ul style="list-style-type: none"> Verify theoretical principles experimentally Interpret the experimental data Improve analytical skills Correlate the theory and experiments and understand their importance

Department of Physics
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Third/Fifth

Subject: Physics

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
Paper 1: Atomic Physics, Free Electron Theory and Statistical	501.1	<ul style="list-style-type: none"> Understand Vector atom Model, the concept of space quantization, Zeeman Effect and L-S and J-J coupling.
	501.2	<ul style="list-style-type: none"> Apply free electron theory and band theory of

Physics (501)		solid to classify solids as conductor, semiconductor and insulator.
	501.3	<ul style="list-style-type: none"> Understand and apply Maxwell-Boltzmann statistics
	501.4	<ul style="list-style-type: none"> Understand and apply Bose-Einstein statistics and Fermi-Dirac statistics.
Paper 2: Quantum Mechanics, Nanomaterials and Nanotechnology (502)	502.1	<ul style="list-style-type: none"> Understand the basics of quantum mechanics and apply it to explain the phenomena like black body radiation and Compton Effect.
	502.2	<ul style="list-style-type: none"> Understand and apply Schrodinger's equation to free particle in a one and three dimension.
	502.3	<ul style="list-style-type: none"> Understand the basics of nanotechnology.
	502.4	<ul style="list-style-type: none"> Understand the synthesis and characterization techniques of nano materials.
Physics Practical (503)	503	<ul style="list-style-type: none"> Apply and demonstrate the theoretical concepts of Physics and to develop scientific attitude.

Department of Mathematics
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Third/Fifth

Subject: Mathematics

After successful completion of three year degree program in Mathematics a Student should be able to;

Paper	CO	Outcomes
TY Paper-I 501 Analysis	501.1	Understand the concept of Fourier series
	501.2	Understand the concept of Riemann-Stieltjes integral
	501.3	Understand the concept of Analytics Functions
	501.4	Students learn about Mobius Transformation
TY Paper-II 502 Metric spaces, Complex integration & Algebra	502.1	Students deal with the definition, properties and examples of countable and uncountable sets and understand the metric space
	502.2	Understand the concept of Completeness, Compactness and Connectedness
	502.3	Understand the concept of Ring Analyze and demonstrate examples of ideals and quotient rings
	502.4	Understand the basic concept of Complex Integration Evaluate integrals along a path - directly from the definition and also via the Fundamental Theorem of Contour Integration and Cauchy's Theorem

Department of Zoology
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Third/Fifth

Subject: Zoology

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
T.Y. Paper-I General Mammalian Physiology – I (501)	501.1	Understand the Enzymes – Distribution and chemical nature of enzymes, General properties of enzymes, Classification of enzymes, Factors affecting enzyme activity
	501.2	Understand the Structure and functions of digestive glands - (Salivary, Gastric, Intestinal, Liver and Pancreas), Gastrointestinal hormones, Digestion and absorption of proteins, carbohydrates and lipids, Vitamins- Fat soluble and water soluble vitamins; Sources, deficiency and diseases
	501.3	Understand the Respiratory pigments - Types , distribution and properties, Mechanism of Respiration, Transport of O ₂ and CO ₂ , Respiratory disorders and effects of smoking
	501.4	Understand the Composition and functions of blood, Blood clotting – Intrinsic and extrinsic factors, blood groups and Rh factor, Cardiac cycle, E.C.G. and Blood pressure
T.Y. Paper-II Physical Zoology (502)	502.1	Understand Site selection and construction ,Pre stocking and post stocking management of nursery, rearing and stocking ponds, Breeding of fishes by bund and Chinese hatcheries. Induced breeding by hypophysation. New generation drugs in induced breeding, Brief study of freshwater aquaculture system – Polyculture, cage culture, sewage fed fish culture, integrated fish farming, Fish products and byproducts, Fish preservation
	502.2	Understand the Prawn culture and Pearl culture, Fabrication and setting up of aquarium and its maintenance, Breeding of aquarium fishes – Live bearers and egg layers, Diseases caused by fungi, bacteria, protozoa and helminthes
	502.3	Understand the concept Chemical control : Insecticides - Pyrethroids, carbamate and HCN – mode of action, merits and demerits, Biological control – Biological agents – predators and parasites; merits and demerits, Crop pest: Life cycle, damage and control of Cotton spotted boll worm - <i>Earias vitella</i> ,Stored grain pest- Rice Weevil, <i>Sitophilus oryzae</i> , Animal pest: Life cycle, damage and control of – House fly – <i>Musca nebulosa</i> , Stable fly – <i>Stomoxys calcitrans</i>
	502.4	Understand the Sericulture- Types of Silkworm. Life cycle and rearing of mulberry silkworm, <i>Bombyx mori</i> , Life cycle and rearing of non mulberry silkworm (Tasar), <i>Antheraea mylitta</i> ; Brief idea of cocoon processing for silk fabric - cocoon boiling, reeling, rereeling, winding, doubling, twisting and weaving, Apiculture – Types of honey bees. Life cycle, culture, movable frame hive, bee product and its economic importance, Lac culture – Lac insect, <i>Laccifer lacca</i> - Life cycle, Lac processing, Lac products and Economic Importance
T.Y. Zoology Practical Course	503	<ul style="list-style-type: none"> • Verify theoretical principles experimentally • Interpret the experimental data • Improve analytical skills • Correlate the theory and experiments and understand their importance

Department of Botany
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Third/Fifth

Subject: Botany

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
T.Y. Paper-I Plant physiology, Mineral Nutrition and Hydroponics (501)	501.1	<ul style="list-style-type: none"> • Understand water relation and its significance. • Understand the Osmosis, Diffusion, Osmotic Pressure. • Understand the ascent of sap. • Understand the transpiration, phloem transport and mineral uptake.
	501.2	<ul style="list-style-type: none"> • Understand the photosynthesis process, photosynthetic pigments. • Understand the light and dark reaction of photosynthesis. • Understand the respiration and its mechanism. • Understand the fermentation process.
	501.3	<ul style="list-style-type: none"> • Understand the nitrogen fixation by symbiotic and Non-Symbiotic mechanism. • Study the plant movements and photoperiodism. • Study the circadian rhythms and Biological Clock.
	501.4	<ul style="list-style-type: none"> • Understand the mineral nutrition, source and types. • Study the role and deficiency symptoms Macronutrients and Micronutrients. • Study the hydroponics, advantages and disadvantages of hydroponics.
T.Y. Paper-II Plant Ecology and Organic Farming (502)	502.1	<ul style="list-style-type: none"> • Understand the concept of Ecology. • Study the climatic, Edaphic and Physiographic factors.
	502.2	<ul style="list-style-type: none"> • Study the ecosystem, components of Ecosystem. • Understand the food chain, food web and ecological pyramids. • Study the Autecology and Synecology.
	502.3	<ul style="list-style-type: none"> • Understand the process of succession. • Study the plant adaptations. • Study the Biogeochemical cycles.
	502.4	<ul style="list-style-type: none"> • Develop the skills of organic farming. • Understand the methods of recycling of biodegradable kitchen, agriculture and industrial waste. • Study to prepare organic manure.
T.Y. Botany Practical Course	503	<ul style="list-style-type: none"> • Determining the Frequency, Density, and Abundance of community by Quadrature Method. • Determining the homogeneity of vegetation by Raunkier's frequency. • Study the frequency of herbaceous species in grassland to compare the frequency distribution with Raunkier's standard frequency diagram. • Study the soil profile of different locations near by area. • Study the salinity of different water samples.

SEMESTER VI
Department of Chemistry
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Third/Sixth

Subject: Chemistry

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
T.Y. Paper-I Inorganic Chemistry (601)	601.1	<ul style="list-style-type: none"> Understand Metal ligand bonding in Transition Metal complexes. Electronic spectra of Transition Metal Complexes.
	601.2	<ul style="list-style-type: none"> Understand Magnetic Properties of Transition metal Complexes. To study thermodynamic and kinetic aspect of metal complexes.
	601.3	<ul style="list-style-type: none"> Understand organometallic chemistry. Understand properties and structure of metal carbonyls.
	601.4	<ul style="list-style-type: none"> To study Bio-organic chemistry Understand the concept of s Hard and Soft acids and bases.
T.Y. Paper-II Organic Chemistry (602)	602.1	<ul style="list-style-type: none"> Understand NMR Spectroscopy
	602.2	<ul style="list-style-type: none"> Understand Organic Synthesis via Enolates. Carbohydrates: classification, reaction and mechanisms.
	602.3	<ul style="list-style-type: none"> Understand Amino acids, peptides and nucleic acids. To study Fats, oil and detergents.
	602.4	<ul style="list-style-type: none"> Understand synthetic dyes, synthetic drugs, synthetic polymer.
T.Y. Chemistry Practical Course	603	<ul style="list-style-type: none"> Verify theoretical principles experimentally Interpret the experimental data Improve analytical skills Correlate the theory and experiments and understand their importance

Department of Physics
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Third/Sixth

Subject: Physics

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
Paper 1: Relativity, Nuclear Physics	601.1	<ul style="list-style-type: none"> Understand the postulates of the special theory of relativity. Apply the concept of relativity to explain Length

and Bio Physics (601)		contraction, Time dilation, Velocity addition theorem, Variation of mass with velocity, Mass energy equivalence.
	601.2	<ul style="list-style-type: none"> Understand the concept of nuclear physics.
	601.3	<ul style="list-style-type: none"> Apply the concept of nuclear physics to explain various decay processes.
	601.4	<ul style="list-style-type: none"> Understand the Principle, Construction and working of different bio instruments.
Paper 2: Electronics, Fiber Optics, Communication and Digital Electronics (602)	602.1	<ul style="list-style-type: none"> Understand the operations and applications of operational amplifiers.
	602.2	<ul style="list-style-type: none"> Understand the various basic structures of optical fibers and basic concept involved in propagation of light waves through optical fiber.
	602.3	<ul style="list-style-type: none"> Understand the concept of amplitude modulation and frequency modulation.
	602.4	<ul style="list-style-type: none"> Understand various number systems. Construct the truth tables for various logic gates. Verify De Morgan's theorem
Physics Practical (603)	603	<ul style="list-style-type: none"> Apply and demonstrate the theoretical concepts of Physics and to develop scientific attitude.

Department of Mathematics
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Third/Sixth

Subject: Mathematics

After successful completion of three-year degree program in Mathematics Students should be able to;

Paper	CO	Outcomes
TY Paper-I 601 Abstract Algebra	601.1	Understand the concept of Group Automorphism
	601.2	Understand definition and examples of vector spaces
	601.3	Learn about algebra of linear transformation
	601.4	Find range, rank, kernel and nullity of matrix and also study about Inner product spaces
TY Paper-II 602 Special Theory of Relativity	602.1	Study the Newtonian Mechanics and understand the concept special theory of relativity
	602.2	Learn the Lorentz transformation and consequences
	602.3	Understand the concept of Tensors and Space –Time structure
	602.4	Study the Mass Energy Equivalence, Energy momentum Tensor and Maxwell's Equation of Electromagnetic theory in Vacuum

Course Name: B. Sc.

Year/Semester: Third/Sixth

Subject: Zoology

After the successful completion of the course students will be able to-

Paper	CO	Outcomess
T.Y. Paper-I General Mammalian Physiology - II (601)	601.1	Understand the Types of neurons, E.M. structure of neuron, Conduction of nerve impulse, Ultrastructure of striated muscle, Sliding filament theory of muscle contraction, Properties of muscles (Twitch, Tetanus, Tonus, Summation, All or None Principle, Muscle fatigue)
	601.2	Understand Structure of uriniferous tubule, Mechanism of urine formation, Counter – current mechanism, Normal and abnormal constituents of urine; Elementary idea of dialysis
	601.3	Understand the Structure and functions of pituitary gland, Structure and functions of thyroid and parathyroid gland, Structure and functions of adrenal gland, Structure and functions of pineal gland
	601.4	Understand the Oestrous and menstrual cycle, Male and female sex hormones, Causes of infertility in male and female, Contraceptives – Mechanical and hormonal ; <i>In-vitro</i> fertilization
T.Y. Paper-II Applied Zoology –II (Biotechniques, Microtechnique, Biotechnology, Bioinformatics and Biostatistics) (602)	602.1	Understand the Concepts of sterilization: Filtration, autoclaving, dry heat sterilization, wet sterilization and radiation, Separation of biomolecules: Centrifugation (Sedimentation, density gradient); Chromatography (Elementary idea of thin layer, gel filtration and ion exchange - Principles and applications), Electrophoresis: Agarose gel electrophoresis, SDS-PAGE, Principles of colorimeter and spectrophotometers
	602.2	Understand the concept of Fixation, dehydration, clearing, embedding & section cutting, Difficulties encountered during section cutting (causes and remedies), Double staining with Haematoxylin and Eosin, Histochemical staining techniques for carbohydrates (Periodic acid schiff), proteins (Mercury-bromophenol blue) and lipids (Sudan black-B)
	602.3	Understand the Basic concepts in recombinant DNA technology, Gene isolation method- Shotgun cloning, Isolation of gene- DNA manipulation enzymes: Nucleases, ligases, polymerases, Basic concepts of cloning vectors and splicing : Insertion of DNA and ligation using blunt ends, cohesive ends, Cloning vectors, Application of biotechnology: Insulin and vaccine production
	602.4	Understand the Bioinformatics: Definition, Basic concepts in bioinformatics, importance and role of bioinformatics in life sciences, Bioinformatics databases- introduction, types of databases, Nucleotide sequence databases, Elementary idea of protein databases, Biostatistics – Tabulation of data, presentation of data, sampling errors, mean, mode, median, probability, standard error and standard deviation
T.Y. Zoology	603	<ul style="list-style-type: none">• Verify theoretical principles experimentally• Interpret the experimental data

Practical Course	<ul style="list-style-type: none"> • Improve analytical skills • Correlate the theory and experiments and understand their importance
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Department of Botany
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Third/Sixth

Subject: Botany

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
Biochemistry, biotechnology And herbal technology Paper-I (601)	601.1	<ul style="list-style-type: none"> • Study the lipids, role of fatty acids, oils and waxes. • Study the enzymes its classification and nomenclature. • Study the basic concepts of Enzymology. • Study the enzyme inhibitors.
	601.2	<ul style="list-style-type: none"> • Study the tissue culture techniques. • Study the process of sterilization. • Study the preparation of culture media..
	601.3	<ul style="list-style-type: none"> • Understand the techniques of genetic engineering. • Study the process of DNA library. • Study the types of DNA library. • Study the Agrobacteria mediated gene transfer.
	601.4	<ul style="list-style-type: none"> • Develop the skills of herbal technology. • Study the methods of Cultivation, Harvesting, • Understand the technique of dye yielding of herbal plants. • Study the used of herbs in cosmetics.
T.Y. Paper-II Phytogeography, Utilization of Plants, Techniques and Pharmacognosy (602)	602.1	<ul style="list-style-type: none"> • Study the phytogeography, climatic regions of India. • Study the Environmental pollution. • Study the Renewable and Non Renewable sources. • Understand the conservation strategies.
	602.2	<ul style="list-style-type: none"> • Study the morphology, utilization and important chemicals constituents of the plants. • Understand the concept of Ethnobotany.
	602.3	<ul style="list-style-type: none"> • Study the principle, types and application of microscope. • Study the various techniques.
	602.4	<ul style="list-style-type: none"> • Understand synthetic dyes, synthetic drugs, synthetic polymer. • Study the pharmacological plants
T.Y.	603	<ul style="list-style-type: none"> • Find out the level of noise pollution of

Botany Practical Course		different nearby area with the help of decimeter and compare it with tolerance limit <ul style="list-style-type: none">• Study the morphology, utilization, and important chemical constituents of plants.• Study the Ethnobotanical importance of plants.• Study the different adulterants used with reference to drug adultration.
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**JOB
GEORGE**

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Principal

Bhiwapur Mahavidyalaya

Bhiwapur, Dist.-Nagpur



Backward Class Youth Relief Committee's

Bhiwapur Mahavidyalaya, Bhiwapur

Dist - Nagpur, Maharashtra 441201

Criteria- 2

Teaching- Learning and Evaluation

2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website.

Academic Session 2020-21



Programme Outcomes
Course Outcomes

Academic Session 2020-2021

**Faculty of Bachelor of Arts,
Bachelor of Commerce & Bachelor
of Science**

Bhiwapur Mahavidyalaya, Bhiwapur
Course Outcomes and Programme Outcomes
Index
Bachelor of Arts

Session	Course	Semester	Sr. No.	Subject
2020-2021	B. A	First	1	English
			2	Marathi
			3	Political Science
			4	Economics
			5	English Literature
			6	Sociology
			7	History
			8	Marathi Literature
			9	Ambedkar Thought
		Second	10	English
			11	Marathi
			12	Political Science
			13	Economics
			14	English Literature
			15	Sociology
			16	History
			17	Marathi Literature
			18	Ambedkar Thought
		Third	19	English
			20	Marathi
			21	Political Science
			22	Economics
			23	English Literature
			24	Sociology
			25	History
			26	Marathi Literature
			27	Ambedkar Thought
		Fourth	28	English
			29	Marathi
			30	Political Science
			31	Economics
			32	English Literature
			33	Sociology
			34	History
		Fifth	35	Marathi Literature
			36	Ambedkar Thought
			37	English
			38	Marathi
			39	Political Science
			40	Economics

			41	English Literature
			42	Sociology
			43	History
			44	Marathi Literature
			45	Ambedkar Thought
		Sixth	46	English
			47	Marathi
			48	Political Science
			49	Economics
			50	English Literature
			51	Sociology
			52	History
			53	Marathi Literature
			54	Ambedkar Thought

Bachelor of Commerce

Session	Course	Semester	Sr. No.	Subject
2020-2021	B. Com	First	1	English
			2	Marathi
			3	Financial Accounting- I
			4	Business Organization
			5	Company Law
			6	Business Economics- I
		Second	7	English
			8	Marathi
			9	Statistics and Business Mathematics
			10	Business Management
			11	Secretarial Practice
			12	Business Economics- II
		Third	13	English
			14	Marathi
			15	Financial Accounting- II
			16	Business Communication and Management
			17	Business Law
			18	Monetary Economics-I
		Fourth	19	English
			20	Marathi
			21	Financial Accounting-III
			22	Skill Development
			23	Income Tax
			24	Monetary Economics-II
		Fifth	25	Financial Accounting-IV

			26	Cost Accounting
			27	Management Process
			28	Indian Economics-I
			29	Computerized Accounting
			30	Auditing
		Sixth	31	Financial Accounting-V
			32	Management Accounting
			33	Advanced Statistics
			34	Indirect Economics-II
			35	Human Resource Management
			36	Industrial Law

Bachelor of Science
(Physics, Chemistry, Mathematics, Zoology and Botany)

Session	Course	Semester	Sr. No.	Subject
2020-2021	B.Sc.	First	1	English
			2	Marathi
			3	Chemistry I & II
			4	Physics I & II
			5	Mathematics I & II
			6	Zoology I & II
			7	Botany I & II
		Second	8	English
			9	Marathi
			10	Chemistry I & II
			11	Physics I & II
			12	Mathematics I & II
			13	Zoology I & II
			14	Botany I & II
		Third	15	Chemistry I & II
			16	Physics I & II
			17	Mathematics I & II
			18	Zoology I & II
		Fourth	19	Botany I & II
			20	Chemistry I & II
			21	Physics I & II
			22	Mathematics I & II
			23	Zoology I & II
			24	Botany I & II
		Fifth	25	Chemistry I & II
			26	Physics I & II

			27	Mathematics I & II
			28	Zoology I & II
			29	Botany I & II
		Sixth	30	Chemistry I & II
			31	Physics I & II
			32	Mathematics I & II
			33	Zoology I & II
			34	Botany I & II

Bachelor of Arts

Semester – I

Department of English Compulsory English

Course Objectives

- To develop interest in the English language through interesting lessons.
- To understand the lives of successful entrepreneurs through life sketches.
- To understand and apply rules of grammar with the help of the prescribed grammar syllabus.
- To motivate themselves by reading and understanding the lives of great personalities.

Course Outcomes

- Developed interest in English language through interesting lessons.
- Understood the lives of successful entrepreneurs through life sketches.
- Appreciated poetry through prescribed poems.
- Applied rules of grammar with the help of prescribed grammar syllabus.
- Motivated themselves by reading and understanding the lives of great personalities.

Department of Marathi Course Objectives and Course Outcomes Compulsory Marathi ;साहित्यरंग.भाग-1

Unit I:

प्रकरण –1.उद्दिष्ट– 'पाखाला बाळक पांगुरवणे' या लीळेतील मराठी भाषेची ओळख व जाणीव विद्यार्थ्यांना करुण देणे.

साध्य– विद्यार्थ्यांना लीळाचरित्रातील गद्य मराठी भाषेची ओळख व माहिती मिळाली.

प्रकरण –2.उद्दिष्ट– शिक्षण पाठातून महात्मा फुले यांनी भारतातील शिक्षणाच्या केलेल्या पुरस्काराची माहिती देणे

साध्य–भारतातील बहुजनसमाजाच्या शिक्षणाची महात्मा फुलेंनी सांगितलेली उद्दीष्टे कशी महत्वाची व उपयोगी आहेत याचे मर्म विद्यार्थ्यांना कळून आले.

प्रकरण –3.उद्दिष्ट–स्वामी विवेकानंदानी सांगितलेल्या व्यक्तिमत्त्व विकासाविषयी विद्यार्थ्यांना बोध करणे

साध्य–सामर्थ्य हेच जीवन व दुर्बलता हाच मृत्यु यास्वामी विवेकानंदानी युवकांसाठी केलेले मार्गदर्शनाची जाणीव विद्यार्थ्यांना झाली.

प्रकरण –4.उद्दिष्ट–राष्ट्रसंत तुकडोजी महाराज यांनी सांगितलेल्या सृष्टीच्या कायदयाची व परिवर्तनाची माहिती विद्यार्थ्यांना देणे.

साध्य- 'बदला किंवा मरा' हा सृष्टीचाकायदा आहे व परिवर्तन हे जीवंतपणाचे लक्षण आहे याची साक्ष विद्यार्थ्यांना पटली.

प्रकरण -5.उद्दिष्ट-कोंकराची कथेतून गोखलेंनी लष्करातून पळून आलेल्या शिवरामच्या जीवनाचे चित्रण करणे.

साध्य-लष्करी पेशातील कडक शिस्तीची माहिती शिवरामच्या व्यक्तिमत्वातून विद्यार्थ्यांना झाली.

Unit II:

कविता- 1.उद्दिष्ट-मुकुंदराजानी माय मराठी भाषेचे सांगितलेली महत्व व वैशिष्ट्यांची ओळखविद्यार्थ्यांना करुण देणे
साध्य-माय मराठी कवितेतून मराठी भाषेचे महत्व व मराठीची वैशिष्ट्ये विद्यार्थ्यांना समजून आली.

कविता-2. उद्दिष्ट- संत ज्ञानेश्वरांनी सांगितलेल्या अभंगातून विरहीणीचे महत्व विद्यार्थ्यांना पटवून देणे.

साध्य- घनु वाजे घुणघुणा व पैल तो गे काऊ कोकताहे या अभंगातून भक्ताची भगवंताशी एकरूप होण्याची ओढ व तळमळीची जाणीव विद्यार्थ्यांना झाली.

कविता- 3.उद्दिष्ट-दंवाचे थेंब कवितेतून केशवसुतांनी रेखाटलेल्या निसर्गातील घटनांचे वर्णन विद्यार्थ्यांना करुन सांगणे.

साध्य- आई व मुलगा यांच्यातील संवादातून निसर्गातील विभिन्न घटनांविषयीचे कुतूहल याची माहिती विद्यार्थ्यांना झाली.

कविता- 4.उद्दिष्ट-भंगू दे काठिन्य माझें कवितेतून परमेश्वराशी जवळीक साधण्याची कविच्या ईच्छेची विद्यार्थ्यांना जाणीव करुन देणे.

साध्य-बा. सी. मर्ढेकरांनी परमेश्वराशी जवळीक साधण्यासाठी स्वतःच्या मर्यादा व उणिवांतून मुक्त होण्यासाठी परमेश्वराशी घातलेल्या संवादाची माहिती विद्यार्थ्यांना मिळाली

कविता- 5.उद्दिष्ट-चार शब्द कवितेतून कविने व्यक्त केलेल्या अपेक्षित परिवर्तनाची जाणीव विद्यार्थ्यांना करुन देणे.

साध्य-नारायण सुर्वे यांनी कष्टकरी, कामकरींच्या स्वाभीमानातून परिवर्तन घडून येईल याची माहिती विद्यार्थ्यांना मिळाली.

Unit III:

प्रकरण - 1.उद्दिष्ट- व्यावहारिक मराठीची आवश्यकता जीवन व्यवहारासाठी का आहे याची यथार्थता विद्यार्थ्यांना पटविणे.

साध्य-जीवन व्यवहारात व्यावहारिक मराठीची उपयुक्तता असल्याचे विद्यार्थ्यांना कळले तसेच अनेक व्यवहार क्षेत्रात व्यावहारिक मराठीची उपयुक्तता असल्याचे स्पष्ट झाले.

प्रकरण - 2.उद्दिष्ट-भाषिक संवाद व्यवहाराच्या मूलतत्वांची ओळख व माहिती विद्यार्थ्यांना करुन देणे.

साध्य-भाषा हे संवादाचे माध्यम असून लेखन, वाचन, श्रवण व भाषण यातून भाषेचा संवाद व्यवहार चालतो हे कळले सोबतच भाषिक संवाद व्यवहाराच्या विविध मुलतत्वांची ओळख विद्यार्थ्यांना झाली.

Department of Political Science Course Objectives and Course Outcomes

Course Objectives

The Students will able;

- To understand the basic concept and ideological orientations of political science discipline.
- To understand the processes and dynamics of Indian government and politics
- To understand the contribution of the main traditions of Indian Political Thought.
- To understand the contribution of the main traditions of Western Political Thinkers to Political Thought

Course Outcomes

- Familiarized with the basic concepts and ideological orientations of political science discipline.

- Exposed to the processes and dynamics of Indian government and politics
- Made to understand the contribution of the main traditions of Indian Political Thought.
- Made to understand the contribution of the main traditions of Western Political thinkers to political thought.

Department of Economics

Course Objectives and Course Outcomes

Unit – I

- Objective - To develop preliminary knowledge of Economic concepts for the understanding of Economics Nature, Definition, and Method of Economics Analysis.
- Outcome – Students learned preliminary knowledge of Economic concepts and definitions.

Unit – II

- Objective - To provide an orderly and objective way of thinking about Economic Demand & Supply Theory.
- Outcome- The students learned about the knowledge of Demand and Supply.

Unit – III

- Objective- To gain knowledge about Consumer Behavior Utility Analysis.
- Outcome- The Students gained the knowledge of Consumer Behavior and Utility Analysis

Unit – IV

- Objective –To explain core Economics- various factors of production.
- Outcome - Students learnt about the production function.

Department of English

Course Objectives and Course Outcomes

English Literature

Course Objectives

- To understand familiar with characteristic literary texts within a given historical, geographical, and socio- cultural context.
- To apply analytical skills to literary and cultural texts of multiple genres.
- To identify, and describe the values, and themes present in the prescribed text.
- To identify ideas, values, and themes which had made an impact on the socio-cultural ethos of the society in the past and in the contemporary society.

Course Outcomes

- Students should be familiar with characteristic literary texts within a given historical, geographical, and socio- cultural context.
- Students should be able to apply analytical skills to literary and cultural texts of multiple genres.
- Students should be able to identify, and describe the values, and themes present in the prescribed text.

- Students should be able to identify ideas, values, and themes which had made an impact on the socio-cultural ethos of the society in the past and in the contemporary society.

Department of Sociology

Course Objectives and Course Outcomes

Introduction

Unit - I Understanding Sociology

Objective - To make students know in detail about Understanding Sociology.

Outcome - Students understood the concept of Understanding Sociology.

Unit – II Basic Concepts in Sociology

Objective - To Make Students Aware of Basic Concepts in Sociology.

Outcome - Students understood the concept of Basic Concepts in Sociology.

Unit - III Socialization

Objective - To Make Students Aware of Socialization.

Outcome - Students understood the concept of Socialization.

Unit – IV Social Structure

Objective - To make the students know in detail about Social Structure.

Outcome - Student understood the concept of Social Structure.

Department of History

Course Objectives and Course Outcomes

After successful completion of three-year Degree Programme in History a student should be able to know;

Programme Outcomes

- PO1: History has an unprecedented significance in human life.
- PO2: The study of history preserves culture.
- PO3: The study of history leads to Socio-Political awareness.
- PO4: Learn about world events.
- PO5: The study of History is important for competitive examination.
- PO6: Conversational skills come and understand the importance of human society.

Course Objectives

- To know the importance of culture gives you the ability to make decisions in yourself.
- To gain the ability to make decisions while living life.
- To gain employment opportunities through competitive examinations.
- To acquire moral values, devotional movement and Sufi sect.

Course Outcomes

- Knew the importance of culture gives you the ability to make decisions in yourself
- Gained the ability to make decisions while living life
- Received employment opportunities through competitive examinations.
Acquired moral values, devotional movement and Sufi sect

Department of Marathi

Course Objectives and Course Outcomes

Marathi Literature

Unit I: माझी जन्मठेप- वि.दा. सावरकर (आत्मचरित्र)-

उद्दिष्ट- स्वातंत्र्यविर वि.दा. सावरकर यांची भारतीय स्वातंत्र्यातील भूमिका व सावरकरांचे व्यक्तिमत्व समजावून सांगणे.
साध्य- स्वातंत्र्यविर सावरकरांची स्वातंत्र्यप्रेरीत भूमिका व योगदान तसेच त्यांचे व्यक्तिमत्व याची सत्यता विद्यार्थ्यांना समजली.

Unit II:

प्रतिभा साधन- ना.सी. फडके

उद्दिष्ट- साहित्याची अभिरुची व साहित्याची निर्मितीची ओळख व माहिती विद्यार्थ्यांना देणे.
साध्य-साहित्य प्रकार, अभिरुची व निर्मिती व रसास्वाद याबद्दल विद्यार्थ्यांना माहिती झाली.

Semester-II

Department of English

Course Objectives and Course Outcomes

Compulsory English

Course Objectives

- To study lessons based on the themes of humor, emotional bonding, ethics and values.
- To motivate themselves even in adverse situations by reading successful people's life sketches.
- To prioritize life's needs over wants.
- To apply grammar lessons to spoken English.
- Grasp the nuances of learning a foreign language.

Course Outcomes

- Studied lessons based on the themes of humor, emotional bonding, ethics and values.
- Motivated themselves even in adverse situations through reading their lives.
- Applied grammar lessons to spoken English.

Department of Marathi
Course Objectives and Course Outcomes
Compulsory Marathi (साहित्यरंग.भाग-1)

Unit I:

प्रकरण – 6.उद्दिष्ट-भारतीय लोकशाहीचे भवितव्य काय? या पाठाच्या आधारे लोकशाहीची माहिती करून देणे.

साध्य- डॉ. बाबासाहेब आंबेडकर यांनी भारतीय लोकशाही आणि जातीव्यवस्थेसंबंधी बहाल केलेल्या विचारांची विद्यार्थ्यांना ओळख पटली व माहिती मिळाली.

प्रकरण – 7.उद्दिष्ट- गाडगेबाबांनी लेखिकेला दाखविलेल्या शाळेचा मार्ग व ज्ञानाचा प्रकाशाची रूजवणूक करणे.

साध्य-सीमा साखरेंचे व्यक्तिमत्व घडण्यासाठी कर्मयोगी गाडगेबाबांनी दाखविलेला शाळेचा मार्ग व ज्ञानाचा प्रकाश कसा उपयुक्त ठरला याची महती विद्यार्थ्यांना पटली.

प्रकरण – 8.उद्दिष्ट-भारतरत्न अटलबिहारी वाजपेयी यांच्या व्यक्तिमत्त्वाची ओळख विद्यार्थ्यांना करून देणे.

साध्य-अजातशत्रू अटलजी यांच्या आगळ्या वेगळ्या व्यक्तिचित्रणाची शरद पवार यांनी करून दिलेली ओळख माहिती विद्यार्थ्यांना झाली.

प्रकरण –9.उद्दिष्ट-जात चोरीच्या आपत्तीमुळे कोणते संकटे येतात याची जाणीव विद्यार्थ्यांना करून देणे.

साध्य-बाबुराव बागुल यांनी आपली अस्पृश्य महार ही जात लपविल्यामुळे त्यांना आलेला अनुभवाचे वर्णन विद्यार्थ्यांना समजून आले.

प्रकरण –10.उद्दिष्ट- पुर्णिया या बिहार राज्यातील मागसलेल्या जिल्ह्यातील लोकांच्या दुःखी कष्टी जीवनाची माहिती विद्यार्थ्यांना देणे.

साध्य- अनिल अवचट यांनी पूर्णियामधून रेखाटलेले सियांचे बदिस्त जीवन, शाळा, नोक-यांचा प्रश्न, राजकीय परिस्थिती, मजुरांचे हलाकीचे जीवन, उपासमारी इ.ची माहिती विद्यार्थ्यांना मिळाली.

Unit II:

कविता- 6.उद्दिष्ट-मुक्त पक्षी या कवितेतू पिंजऱ्यातील पक्षी स्वातंत्र का नाकारतो याचीमाहिती देणे.

साध्य- गुलामीची सवय जडल्यामुळे पक्षी पिंजऱ्यातून मुक्त केल्यावरही स्वातंत्र नाकारतो याची ज्ञान विद्यार्थ्यांना प्राप्त झाले.

कविता –7.उद्दिष्ट- जीवन मरणाबध्दल बहिणाबाईंनी केलेल्या चिंतनाची सार्थकता पटवून देणे.

साध्य- जन्ममृत्यु विषयी कवयित्रीने कवितेत प्रगट केलेले विचार मानवी जीवनाची सार्थकता पटवून देतात याची विद्यार्थ्यांना खात्री पटली.

कविता- 8.उद्दिष्ट-राष्ट्रसंतांना गरीबाच्या झोपडीमधील सुखाची माहिती विद्यार्थ्यांना देणे

साध्य- महालातील सुखापेक्षा लहानषा झोपडीतील सुख हे महान असल्याची प्रचिती कवितेच्या भावार्थावरून विद्यार्थ्यांना आली.

कविता- 9.उद्दिष्ट-माणसाच्या मनातील मोठेपना नाहिसा होण्याची कविची इष्वराकडे केलेली मागणीचे ज्ञान विद्यार्थ्यांना देणे.

साध्य-कविने आपल्या जीभेवरचा लोभ जळू देण्यासाठी व मी पणाचे साम्राज्य नाहीसे होण्याची कविची भावना विद्यार्थ्यांना समजली.

कविता- 10.उद्दिष्ट-कुसुमाग्रजांच्या कवितेतून मानवी सामर्थ्य निसर्गावर कसे मात करते याची ओळख विद्यार्थ्यांना करून देणे.

साध्य-कवितेतील नायकाचा गंगा नदीच्या पुरामुळे संसार उध्वस्त होऊनही सराच्या आर्षिवादाची थाप मागणारा नायक प्रतिकूल परिस्थितीवर मात करून संसार उभा करतो याची विद्यार्थ्यांना प्रेरणा मिळाली.

Unit III:

प्रकरण – 3.उद्दिष्ट– पत्रलेखनाचे स्वरूप, पत्राचे प्रकार, पत्रलेखाचे घटक, वैशिष्ट्ये व पत्राचा नमूना विद्यार्थ्यांना समजावून देणे.

साध्य– विद्यार्थ्यांना पत्राचे रूप कसे असते ,घटक कोणते, खजगी पत्रे व कार्यालयीन पत्रे कधी लिहावीत याचे कौशल्य व ज्ञान प्राप्त झाले.

प्रकरण – 4.उद्दिष्ट–सारांशलेखन कसे करावे व सारांश लेखन करतांना कोणती काळजी घ्यावी व सारांशलेखनाचे फायदे याविषयी विद्यार्थ्यांना माहिती देणे.

साध्य– विद्यार्थ्यांना सारांशलेखन करण्याची माहिती मिळाली तसेच दिलेल्या सारांशाचे एक तृतीयांश लेखन करण्याचे कौशल्य प्राप्त होऊन सारांशलेखनाचे फायदे समजले.

Department of Political Science Course Objectives and Course Outcomes

Course objectives

- To understand the processes and dynamics of the Indian government and politics.
- To understand the contribution of the main traditions of Indian Political Thought.
- To understand the contribution of the main traditions of Western Political Thinkers to Political Thought.

Course Outcomes

- Familiarized with the basic concepts and ideological orientations of the Political Science discipline.
- Exposed to the processes and dynamics of Indian government and politics.
- Made to understand the contribution of the main traditions of Indian Political Thought.
- Made to understand the contribution of the main traditions of Western Political thinkers to Political thought.

Department of Economics Course Objectives and Course Outcomes Micro Economics Theory -II

Unit – I: Cost and Revenue Analysis Cost of Production:

Objective- TO explain the Kinds of Cost and Revenue Analysis Cost of Production

Outcome –Explained the knowledge of Cost and Revenue Analysis.

Unit – II: Market Structure and Perfect Competition Market

Objective- To explain major types of market Structure and Identify Characteristics of Perfect Competition.

Outcome –Received assignments from the students those are coherent, organized, concise, grammatically correct and well-presented.

Unit – III: Monopoly and Imperfect Competition Market

Objective- To identify and discuss the key concepts of Monopoly and Imperfect Competition Market.

Outcome –Identified economic theory in the Monopoly and Imperfect Competition
Unit – IV: Factors Pricing and Statistics for Economics Factors Pricing:

Objective- To explain the contribution of Factors of production.

Outcome – Students learned about the factor of production.

English Literature

Course Outcomes

CO6 - Students will be familiar with literary texts in a given historical, geographical and cultural context

CO7- Students should be able to apply critical theories to the reading of multiple genres of literature

CO8- Students should be able to identify, and analyze the critical ideas and themes

CO9- Students should be able to write analytically with the help of language competencies

CO10- Students should be able to imbibe, ethical, moral, and cultural values

Department of Sociology

Course Objectives and Course Outcomes

Themes and Perspectives

Themes and Perspectives

Unit - I Culture and Society

Objective - To Make the students know in detail about culture and society

Outcome - Students understood the concept of culture and society.

Unit - II Social Deviation and Social Control

Objective – To make the students aware of social deviation and social control.

Outcome – Students understood the concept of social deviation and social control.

Unit - III Social Stratification and Social Mobility

Objective - To Make Students know in detail about Social Stratification and Social Mobility.

Outcome – Students understood in detail about Social Stratification and Social Mobility.

Unit - IV Concept of Gender

Objective - To make students aware of concept of gender.

Outcome - Student understood the concept of concept of gender.

Department of History

Course Objectives and Course Outcomes

- 1) How Mughal power was established in India.
- 2) How was the administration of Sher shah Suri
- 3) Mughal carpet administration

4) Information about Chhatrapati Shivaji and Mughal relationship

5) Why and why Panipat III

Course Objectives

- To understand how the Mughal power was established in India.
- To learn information about Sher Shah Suri and the Mughal administration.
- To get information about Chhatrapati Shivaji and Mughal relationship war took place.
- To understand the Panipat Third War and the arrival of the British.

Course Outcomes

- Understood how the Mughal power was established in India.
- Learned information about Sher Shah Suri and the Mughal administration.
- Student got information about Chhatrapati Shivaji and Mughal relationship war took place.
- Understood the Panipat Third War and the arrival of the British.

**Department of Marathi
Marathi Literature
Course Objectives and Course Outcomes**

Unit I:

नटसम्राट-वि. वा. शिरवाडकर (नाटक)-

उद्दिष्ट- नटसम्राट या नाटकातून मानवी जीवनातील कौटुंबिक, सामाजिक व नटसम्राट अप्पासाहेब बेलवणकर यांचे संघर्षप्रवण जीवनाची माहिती विद्यार्थ्यांना देणे.

साध्य- वि. वा. शिरवाडकरांनी नटसम्राट नाटकात रेखाटलेल्या अप्पासाहेब बेलवणकरांच्या व्यक्तिमत्त्वाच्या आधारे मानवी जीवनाची षोकांतिका विद्यार्थ्यांना कळली.

Unit II:

साहित्यप्रकार-कादंबरी, चरित्र, आत्मचरित्र.

उद्दिष्ट- कादंबरी, चरित्र, आत्मचरित्र या साहित्य प्रकाराची ओळख व माहिती विद्यार्थ्यांना देणे.

साध्य- कादंबरी, चरित्र, आत्मचरित्र या साहित्य प्रकाराची ओळख व माहिती विद्यार्थ्यांना झाली.

B.A. Part -II Semester-III

Course Objectives and Course Outcomes

Department of English Compulsory English

Unit I: Objective- Making students aware of the importance of Honesty.

Outcome- Students tried to examine and applied through the various activities carried out in the class.

Unit II: Objective- Making students realize the beauties of nature and sublime.

Outcome- Students tried to apply the values of nature and the sublime.

Unit III: Objective- Making students understand the social evils of society and the values of Humanity.

Outcome-Students were exposed to the social evils of society through discussion.

Unit IV: Objective-Grammatically correct usage of Narration and Punctuation.

Outcome-Students solved the examples of Narration and Punctuation.

Unit V: Objective-To create the ability to use English for the purpose of communication.

Outcome-Students attempted to use English for the purpose of communication in the Class.

Department of Marathi
Course Objectives and Course Outcomes
Compulsory Marathi
साहित्य संवाद.भाग.2

Unit I:

प्रकरण –1.उद्दिष्ट– तेराव्या शतकातील दृष्टांतपाठातील गद्य भाषाशैली, श्रीचक्रधरस्वामीचे चरित्र, महानूभाव पंथा विषयी माहिती देणे.

साध्य– दृष्टांतपाठातील गद्य भाषाशैली, श्रीचक्रधरस्वामीचे चरित्र, महानूभाव पंथाचे समाजाला दिलेले योगदान विद्यार्थ्यांना समजून आले.

प्रकरण –2.उद्दिष्ट–स्त्री पुरुष तुलना या पाठातून ताराबाई शिंदे हीने पारतंत्र्यांच्या काळात स्त्रियांच्या नशिबी येणाऱ्या दुर्गुणांची जाणीव करून देणे.

साध्य– सर्व प्रकारचे दुर्गुण स्त्रियांतच असतात या पुरुषांच्या पूर्वग्रहदूषित विचारांची विद्यार्थ्यांना माहिती प्राप्त झाली.

प्रकरण –3.उद्दिष्ट–यशस्वी वक्ता होण्यासाठी प्र.के.अत्रे यांनी सांगितलेला अनुभव विद्यार्थ्यांना सांगणे.

साध्य– विद्यार्थ्यांनी यशस्वी वक्ता होण्यासाठी अ०यांच्या अनुभवाचा बोध घेतला.

प्रकरण –4.उद्दिष्ट–पंढरपूर व विठ्ठलाचे दर्पनाची माहिती विद्यार्थ्यांना करून देणे.

साध्य – पंढरपूर व पांडुरंगाचे संपूर्ण वर्णन तेथील भौगोलिक परिस्थितीची माहिती विद्यार्थ्यांना प्राप्त झाली.

प्रकरण –5.उद्दिष्ट–राष्ट्रसंताच्या मते शिक्षक हाच राष्ट्राचा भाग्यविधाता असल्याची खात्री विद्यार्थ्यांना करून देणे.

साध्य– शिक्षकाचे विद्यार्थी, समाजाप्रती केलेल्या संपूर्ण कार्याची व शैक्षणिक कार्याची जाणीव विद्यार्थ्यांना कळली-

Unit II:

कविता–1.उद्दिष्ट–संत नामदेवांनी श्रीविठ्ठलाचे वर्णन, विठ्ठलभक्तचे व नामस्मरणाचेमहात्म्य विद्यार्थ्यांना सांगणे.

साध्य–अभंगाच्या निपनातून विठ्ठलाच्या अनंत लावण्याची शोभा, विठ्ठलभक्तचे व नामस्मरणाचे महात्म्य विद्यार्थ्यांना कळले.

कविता–2.उद्दिष्ट– मारोपंतानी सत्संगतीचा वर्णन केलेला महिमा सांगणे.

साध्य– सत्संगतीत समाजजिवनाला उद्बोधन करण्याचे सामर्थ्य आहे याची विद्यार्थ्यांना माहिती मिळाली.

कविता–3.उद्दिष्ट–भला जन्म हा तुला लाभला यातून राम जोषींनी सांगितलेल्या मानवी जीवनाचे सार्थकत्व पटविणे.

साध्य– उपदेशपर लावणीतून मानवी जीवनाची सार्थकता विद्यार्थ्यांना पटली.

कविता–4.उद्दिष्ट–षेतकरी–कष्टकऱ्यांची जीवनगाथा व परिस्थितीचे वर्णन करणे.

साध्य–विद्यार्थी ग्रामीण भागातला असून शेतकऱ्यांच्या परिस्थितीची जाणीव झाली.

कविता– 5.उद्दिष्ट– कवी अनिलांच्या विराणीतून कवी मनाच्या उदासीनतेचे दर्शन घडविणे.

साध्य–कविला लाभलेल्या दुःखामुळे कविच्या मनाला उदासिनता प्राप्त झाली याची विद्यार्थ्यांना प्रचिती आली-

Unit III:

प्रकरण – 1.उद्दिष्ट–इतिवृत्त लेखन, प्रकार,पध्दती व लेखनाची काळजी याविषयी विद्यार्थ्यांना माहिती देणे.

साध्य –इतिवृत्त म्हणजे सभेची नोंद, प्रकार पध्दती व लेखन करतांना घ्यावयाची काळजी याची विद्यार्थ्यांना माहिती मिळाली.

प्रकरण – 2.उद्दिष्ट–प्रसारमाध्यमे आणि वृत्तलेखन याविषयी विद्यार्थ्यांना माहितीचे विप्लेषण करणे.

साध्य–दृक श्राव्य प्रसारमाध्यमांच्याद्वारे बातमी, बातमीचे लेखन व वृत्तपत्रीय लेखन कसे केले जाते याची माहिती विद्यार्थ्यांना झाली.

Department Of Political Science
Course Objectives and Course Outcomes

Course Objectives

- To explain the vital contemporary emerging issues of center-state relations, political parties, emergence of new leadership at different levels, demand for autonomy movement, ethnic conflicts, etc.
- To understand the strengths and weakness of Indian political processes, both in terms of their effectiveness in responding to public policy needs.
- To understand the current political issues in the context of wider debates about democratic life in India and the capacity of political institutions
- To understand the basic concept and issues concerning human rights and challenges.

Course Outcomes

- Familiarized with the vital contemporary emerging issues of center-state relations, political parties, the emergence of new leadership at different levels, demand for autonomy movement, ethnic conflicts, etc.
- Analyzed the strengths and weakness of Indian political processes, both in terms of their effectiveness in responding to public policy needs and retaining constitutional protections.
- Understood the current political issues in the context of wider debates about democratic life in India and the capacity of political institutions.
- Acquainted with a basic understanding of concepts and issues concerning the Right to Information Act, Human Rights, and Challenges.

Department of Economic
Course Objectives and Course Outcomes

Unit – I Introduction to Macro Economics

Objective – To discuss the Introduction of Macro Economics.

Outcomes – Students understand the concept of Macro Economics.

Unit – II National Income

Objective – To explain the concept of National income.

Outcome – Students understood the various concept of National income.

Unit – III Money and Value of Money

Objective – To evaluate the value of money and theories of the Value of Money.

Outcome – Students learned the theories of Value of Money.

Unit – IV Output and Employment

Objective – To introduce the theory of Employment.

Outcome- Students learnt the theory of Employment.

Dept. of English
Course Objectives and Course Outcomes
English Literature

Unit I: Objective-Making students conscious of the various issues of the Indian society.

Outcome-Students attempted to understand the various issues of the Indian society

Unit II: Objective- Making students realize revolution and its effects.

Outcome-Students realized equality, revolution and its effects.

Unit III: Objective- Making students understand the biography, autobiography and Criticism

Outcome- Students understood the biography, autobiography and Criticism.

Unit IV: Objective-Making students understand the Literary Terms.

Outcome-Students understood the Literary Terms and their usage

Department of Sociology
Course Objectives and Course Outcomes

Foundations of Social Thought

Unit - I Emergence of Sociology as a Discipline

Objective - To Make the students know in detail about the emergence of sociology as a discipline.

Outcome - Students understood the concept of the emergence of sociology as a discipline

Unit - II Founders of Sociology I

Objective - Students understood the concept of Founders of Sociology-I (August Comte, Herbert Spencer,)

Outcome - Students understood the concept of Founders of Sociology-I (August Comte, Herbert Spencer)

Unit – III Founders of Sociology II

Objective - Students understood the concept of Founders of Sociology-II (Charles of Horton Cooley, Emile Durkheim)

Outcome - Students understood the concept of Founders of Sociology-II(Charles of Horton Cooley, Emile Durkheim)

Unit - IV Founders of Sociology III

Objective - Students understood the concept of Founders of Sociology-III (Karl Marx, Max Weber)

Outcome -Students understood the concept of Founders of Sociology-II(Karl Marx, Max Weber)

Department of History
Course Objectives and Course Outcomes

Course Objectives

- To study Battle of Buxar and English policy.
- To understand Kayamdhara Methods, Ryotwari , and Lord Wellesley.
- To understand the uprising of 1857 (independent war) results.
- To understand how did nationalism emerge in India?

Course Outcomes

- Studied the Battle of Buxar and how the British implemented their policy in India
- Gained information about working methods, Kaymdhara, ryotwari and Mahalwari and Lord Wellesley deployment forces.
- The uprising of 1857 (independent war) result was known
- Learned how Nationalism emerged in India

Department of Marathi
Marathi Literature
Course Objectives and Course Outcomes

Unit I रु उदिष्ठ—कुसुमाग्रजाच्या रसयात्रा कविता संग्रहाच्या आधारे विविध प्रकारच्या कवितांची ओळख व माहिती विद्यार्थ्यांना देणे.

साध्य—कुसुमाग्रजांच्या कवितासंग्रहातून सामाजिक कविता, राजकीय, राष्ट्रीय कविता, प्रेम कविता, निसर्ग कविता व तत्वज्ञानपर कवितांची माहिती विद्यार्थ्यांना झाली.

Unit II:

उदिष्ठ—काव्यशास्त्र परिचय यातून काव्यकारण व षड्दषक्ती याविषयी विद्यार्थ्यांना माहिती देणे.

साध्य—विद्यार्थ्यांना काव्य निर्मितीचे कारण व षड्दाच्या अभिदा, व्यंजना व लक्षणा या षड्दषक्तीची माहिती प्राप्त झाली.

Semester-IV

Department of English
Course Objectives and Course Outcomes
Compulsory English

Unit I: Objective- Making students aware of the importance of faith and friendship

Outcome- Students understood the value of friendship.

Unit II: Objective- Making students realize about discipline and struggle.

Outcome- Students tried to apply the discipline and struggle in their lives.

Unit III: Objective- Making students understand the presence of the mind.

Outcome- Students were put through various activities to get the feel of it.

Unit IV: Objective-Grammatically correct usage of Tense and Voice.

Outcome-Students tried to solve the examples of Tense and Voice.

Unit V: Objective-To create the ability to use English for the purpose of communication.

Outcome-Students attempted to use English for the purpose of communication in the Class.

-Students attempted to use English for the purpose of communication in the Class.

Department of Marathi
Course Objectives and Course Outcomes

Compulsory Marathi
साहित्यरंग.भाग.2

Unit I:

प्रकरण – 1.उद्दिष्ट-आज्ञापत्राच्या आधारे राजकर्तव्ये पाठातून शिवछत्रपतींच्या कतबगारीचा बोध विद्यार्थ्यांना करून देणे.
साध्य- राजकर्तव्ये पाठातील शिवाजींच्या कार्यकर्तृत्वाची विद्यार्थ्यांनी जाणिव झाली व विद्यार्थ्यांनी बोध घेतला.

प्रकरण –2.उद्दिष्ट-स्वराज्य व सुराज्य पाठातून लोकमान्य टिळकांच्या भारतीय स्वातंत्र्यासंबंधी योगदानाची विद्यार्थ्यांना माहिती करून देणे.

साध्य- भारतीय स्वातंत्र्यात लोकमान्य टिळकांच्या व्यक्तिचित्रणातून निर्भयता, निःस्पृहता, ज्वलंत देशभक्ती या गुणांचा प्रत्यय विद्यार्थ्यांना आला.

प्रकरण – 3.उद्दिष्ट- माध्यान्ह या पाठातील कुसुमावती देशपांडे यांचे माध्यान्हीच्या वेळेतील अनुभव विद्यार्थ्यांना सांगणे.

साध्य- माध्यान्हीच्या वेळेतील समतोलपणा, गंभीरता, अभिजात सौंदर्य व बानंद या गुणांची जाणीव विद्यार्थ्यांना झाली.

प्रकरण –4.उद्दिष्ट-अद्वैताचा साक्षात्कार यातून साने गुरुजींच्या संदेशाची विद्यार्थ्यांमध्ये रुजवणूक करणे.

साध्य- साने गुरुजींच्या 'अद्वैत भारतीय संस्कृतीचा आत्मा आहे, या तत्वाची विद्यार्थ्यांना जाणीव झाली.

प्रकरण –5.उद्दिष्ट- आधार या कथेतून वि.स. जोग यांनी रेखाटलेल्या भाऊकाकांची षोकांतिका विद्यार्थ्यांना सांगणे.

साध्य-ओंकारी, अधम संस्कृतीत वावरणाऱ्या भाऊकाकांच्या षोकांतिकेचा विद्यार्थ्यांनी बोध घेतला-

Unit II:

कविता- 1.उद्दिष्ट-अभंगवाणीतून संत चोखमेळाकालीन सामाजिक विशमता व अन्यायकारक वागणूकीची माहिती देणे.

साध्य-तेराव्या शतकातील सामाजिक परिस्थिती रुढी परंपरांची माहिती चोखमेळाच्या अभंगातून विद्यार्थ्यांना समजून आली.

कविता –2.उद्दिष्ट-क्रांतीचा जयजयकार कवितेतून भारताच्या स्वातंत्र्यासाठी क्रांतीकारकांनी दिलेल्या योगदानाची माहिती सांगणे.

साध्य-कुसुमाग्रजांनी व्यक्त केलेली क्रांतीकारकांच्या मनातील स्वातंत्र्यासंबंधी देशभक्तीची जाणीव विद्यार्थ्यांना झाली.

कविता- 3.उद्दिष्ट-सत्य या संकल्पनेचे स्वरूप सत्याच्या जातीला कवितेतून विद्यार्थ्यांना सांगणे.

साध्य-परचंद्र मुक्तिबोध यांच्या कवितेतून संघर्षातील वृत्ती आणि विपरीत स्थितीतील उत्तुंग आषावाद याची माहिती विद्यार्थ्यांना मिळाली.

कविता- 4.उद्दिष्ट- रातझडीचा पाऊस कवितेतून शेतातल्या निसर्गाशी कविच्या वृत्ती तादात्म्य पावण्याची साक्ष पटविणे.

साध्य- प्रेमासक्त आणि निसर्गासक्त अशा दोन रुपांची सायुज्यता व पाऊसाची विद्यार्थ्यांना साक्ष पटली.

कविता- 5.उद्दिष्ट-माझ्या कवितेची चव कवितेतून कविच्या काव्यनिर्मितीचे प्रयोजन विद्यार्थ्यांना सांगणे.

साध्य- इंद्रजित भालेराव यांनी व्यक्त केलेली काव्यविषयाची भुमिका विविध शब्द प्रतिमांतून विद्यार्थ्यांनी समजून घेतला.

Unit III:

प्रकरण – 3.उद्दिष्ट-पटकथा व संवादलेखन याबद्दलची माहिती विद्यार्थ्यांना देणे.

साध्य- सिनेमात कथा,पटकथा व संवादलेखन कसे असते याची जाणीव विद्यार्थ्यांना झाली.

प्रकरण – 4.उद्दिष्ट- स्मरणिकेचे संपादन व इतर संपादनकार्य व स्वरूप स्पष्ट करणे.

साध्य-स्मरणिकेचे संपादन कार्य व मासिकाचे कार्य काय असते हे विद्यार्थ्यांना कळले.

Department Of Political Science
Course Objectives and Course Outcomes

Course Objectives

- To explain the vital contemporary emerging issues of center-state relations and political parties, the emergence of the new leadership at different levels, demand for autonomy movement, ethnic conflicts etc.
- To understand the strengths and weakness of Indian political processes, both in terms of their effectiveness in responding to public policy needs.
- To understand the current political issues in the context of wider debates about democratic life in India and the capacity of political institutions.
- To understand the basic concept and issues concerning human rights and challenges.

Course Outcomes

- Familiarized with the vital contemporary emerging issues of center-state relations, political parties, the emergence of new leadership at different levels, demand for autonomy movement, ethnic conflicts etc.
- Analyzed the strengths and weakness of Indian political processes, both in terms of their effectiveness in responding to public policy needs and retaining constitutional protections.
- Understood the political issues in context of wider debates about democratic life in India and the capacity of political institutions.
- Acquainted with a basic understanding of concept and issues concerning Right to Information Act, Human Rights and Challenges.

Department of Economics
Course Objectives and Course Outcomes

Unit -I: Commercial and Central Bank Commercial Banks:

Objective – To explain the function of the Commercial and Central Bank and why it is important.

Outcome – Students learned the function of the Commercial and Central Bank and why it is important.

Unit –II: RBI and Innovation in Banking Reserve Bank of India:

Objective - Introduce RBI and innovation in Banking Sector.

Outcome – Students learnt about the structure of RBI and its function.

Unit -III: Financial Market Money Market:

Objective – To define Financial Market.

Outcome – Students understood the function of Financial Market.

Unit –IV: Health Economics and Statistics for Economics Health Economics:

Objective – To explain the importance of Health Economics and Statistics.

Outcome – Students understood the knowledge of Health Economics and Statistics

Department of English
Course Objectives and Course Outcomes

English Literature

Unit I: Objective-Making students conscious of the various issues of Indian society.

Outcome-Students attempted to understand the various issues of Indian society

Unit II: Objective- Making students realize revolution and its effects.

Outcome-Students realized equality, revolution, and their effects.

Unit III: Objective- Making students understand the biography, autobiography and Criticism.

Outcome- Students understood the biography, autobiography and Criticism.

Unit IV: Objective- Making students understand the Literary Terms.

Outcome- Students understood the Literary Terms and their usage.

Department of Sociology

Course Objectives and Course Outcomes

Indian Sociological Tradition

Unit - I Theoretical Roots of Caste in India

Objective - To make the students aware of the Theoretical Roots of Caste in India (B.R. Ambedkar, G.S. Ghurye)

Outcome - Student understood the concept of Founders of Theoretical Roots of Caste in India (B.R. Ambedkar, G.S. Ghurye)

Unit - II Social Change from Indian Perspective

Objective - To make the students aware of Social Change from Indian Perspective (M.N. Shrinivas, D.P.Mukharjee)

Outcome - Student understood the concept of Social Change from Indian Perspective (M.N. Shrinivas, D.P.Mukharjee)

Unit - III Indian Society and Contemporary Change

Objective - To make the students aware of Indian Society and Contemporary Change (R.K. Mukharjee, S.C. Dube)

Outcome - Student understood the concept of Indian Society and Contemporary Change (R.K. Mukharjee, S.C. Dube)

Unit - IV Gender and Society in India

Objective - To Make Students Aware of Gender and Society in India (Tarabai Shinde, Jyotiba Fule and Savitribai Fule)

Outcome - Student understood the concept of Gender and Society in India(Tarabai Shinde, Jyotiba Fule and Savitribai Fule)

Department of History
Course Objectives and Course Outcomes

**B.A.II (IV -Sem) History of
India(1885 -1947)**

Course Objectives

- To study How the National Congress was formed
- To understand What was the role of Jhal and Mawal.
- To study Non-cooperation, civil disobedience movement
- To learn Indian Independence Mountaineering Scheme

Course Outcomes

- Learned about the establishment of the National Congress
- Understood the role of Jhal and Mawal
- Information was received about non-cooperation, civil disobedience movement
- Gained detailed knowledge of how India became independent

Department of Marathi
Marathi Literature
Course Objectives and Course Outcomes

Unit I:

उद्दिष्ट— कुसुमाग्रजांच्या रसयात्रा कविता संग्रहाच्या आधारे विविध प्रकारच्या कवितांची ओळख व माहिती विद्यार्थ्यांना देणे.

साध्य—कुसुमाग्रजांच्या कवितासंग्रहातून सामाजिक कविता,राजकीय, राष्ट्रीय कविता, प्रेम कविता,निसर्ग कविता व तत्वज्ञानपर कवितांची माहिती विद्यार्थ्यांना झाली.

Unit II:

उद्दिष्ट—काव्यशास्त्र परिचय यातून काव्यकारण व षड्वक्ती याविषयी विद्यार्थ्यांना माहिती देणे.

साध्य— विद्यार्थ्यांना काव्य निर्मितीचे कारण व षड्वक्तीच्या अभिदा, व्यंजना व लक्षणा या षड्वक्तीची माहिती प्राप्त झाली.

**B. A. III
Semester-V**

Department of Marathi
Compulsory Marathi
Course Objectives and Course Outcomes

Unit I:

लीळाचरित्र एकांक दृडो. मदन कुळकर्णी

उद्दिष्ट— लीळाचरित्राच्या एकांक ग्रंथाच्या आधारे तत्कालीन सामाजिक परिस्थितीचा आढावा घेणे.

साध्य—लीळाचरित्र एकांक ग्रंथातून लीळांच्या आधारे विद्यार्थ्यांना तत्कालीन सामाजिक, धार्मिक व राजकीय परिस्थिती तसेच एकूण समाजजिवनाची ओळख विद्यार्थ्यांना झाली.

Unit II: दलित साहित्य वेदना व विद्रोह— भालचंद्र फडके

उद्दिष्ट— दलित साहित्य वेदना व विद्रोह यातून दलित साहित्याच्या अभ्यासाचे महत्व साहित्यातील योगदान व महत्व विद्यार्थ्यांना पटवून देणे.

साध्य— दलित साहित्याचा उगम, चळवळ तसेच साहित्यिकांचे प्रेरणास्थान व कार्य याची जाणीव विद्यार्थ्यांना झाली.

भाषाविज्ञानाचा परिचय. डॉ. मालसे, डॉ. कुळकर्णी

उद्दिष्ट— भाषाविज्ञानाचा परिचय विद्यार्थ्यांना करून देणे.

साध्य- प्रमाण भाषा आणि बोली तसेच स्पीम व पदविचार यांची माहिती विद्यार्थ्यांना झाली.

Department of Political Science

Course Objectives and Course Outcomes

Course Objectives

- List the difference between scholarly and popular publication in Comparative Politics.
- To understand the issues of International and Domestic Politics and public Policy.
- To analyze contemporary problems in the countries under consideration in light of the conceptual frameworks presented in class.
- To discuss the major theories and concepts of political science and its subfields.

To relate the basics of International Relations and the new trends in the realm of International Relations.

Course Outcomes

- Write an analysis of the institutions, political behavior and political ideas of another country comparing these attributes to the Indian model.
- Exposed to issues of International and Domestic Politics and Public Policy.
- Analyze contemporary problems in the countries under consideration in light of the conceptual frameworks presented in class.
- Presented with the major theories and concepts of political science and its sub fields.
- Aware with the basics of International Relations and the new trends in the realm of international relations.

Department of Economics

Course Objectives and Course Outcomes

Unit – I Nature of Indian Economy

Objective – To introduce the basic Knowledge of the Indian Economy

Outcome -Students learnt about the Knowledge of the Indian Economy.

Unit – II Agriculture

Objective –To explain the importance of the Agriculture Sectorthe in Indian Economy.

Outcome -Students learnt about the Importance of the Agriculture Sectorthe in Indian Economy.

Unit – III - Industry

Objective – To explain the Importance and Role of Industries in Economic Development

Outcome -Students learnt about the Knowledge of Industries in the Economic Development.

Unit – IV- Employment and Poverty

Objective- To develop preliminary knowledge of Employment and Poverty

Outcome -Students learnt about the preliminary knowledge of Employment and Poverty.

SEM-V

Course Objectives and Course Outcomes English Literature Course

Objective: To enable students to analyze literary text.

Outcome: Students showed their ability to analyze literary text.

Objective: To enable students to interpret literary texts.

Outcome: Students showed their ability to interpret the literary text.

Objective: To enable students to understand significant developments in the history of English and Indian literature.

Outcome: Students became aware of significant developments in the history of English and Indian literature

Objective: To enable students to apply theoretical approaches to the critical reading of literary texts.

Outcome: Students tried to apply theoretical approaches to the critical reading of literary texts.

Department of Sociology Course Objectives and Course Outcomes

Unit - I Indian Society, Structure and Inequality

Objective - To know in detail about Indian Society, Structure and Inequality

Outcome - Student understood the concept of Indian Society, Structure and Inequality

Unit - II Family in Contemporary India

Objective - To make the students aware of Family in Contemporary India.

Outcome -Student understood the concept of Family in Contemporary India

Unit - III Tribal Issues and Problems in India

Objective - To make the students aware of Tribal Issues and Problems in India.

Outcome – Students understood the concept of Tribal Issues and Problems in India.

Unit - IV Rural Community in India

Objective - To make the students know in details about Rural Community in India.

Outcome - Student understood the concept of Rural Community in India

Department of History
Course Objectives and Course Outcomes

Course Objective

- To understand What were the causes and consequences of the French Revolution?
- To study How imperialism came into being
- To study World War I - Treaty of Vasai
- To understand United Nations and performance

Course Outcomes

- Understood The French Revolution was also the first revolution in the world
- Studied What are the reasons for imperialism?
- Understood World War I - The Treaty of Vasai
- Learned about the United Nations and its achievements and Failures

Department of Marathi
Course Objectives and Course Outcomes
Marathi Literature

Unit I:

लीळाचरित्र एकांक दृडो. मदन कूळकर्णी

उद्दिष्ट- लीळाचरित्राच्या एकांक ग्रंथाच्या आधारे तत्कालीन सामाजिक परिस्थितीचा आढावा घेणे.

साध्य-लीळाचरित्र एकांक ग्रंथातून लीळांच्या आधारे विद्यार्थ्यांना तत्कालीन सामाजिक, धार्मिक व राजकीय परिस्थिती तसेच एकूण समाजजिवनाची ओळख विद्यार्थ्यांना झाली.

Unit IIरू दलित साहित्य वेदना व विद्रोह- भालचंद्र फडके

उद्दिष्ट- दलित साहित्य वेदना व विद्रोह यातून दलित साहित्याच्या अभ्यासाचे महत्व साहित्यातील योगदान व महत्व विद्यार्थ्यांना पटवून देणे.

साध्य- दलित साहित्याचा उगम, चळवळ तसेच साहित्यिकांचे प्रेरणास्थान व कार्य याची जाणीव विद्यार्थ्यांना झाली.

भाषाविज्ञानाचा परिचय. डॉ. मालसे, डॉ. कूळकर्णी

उद्दिष्ट- भाषाविज्ञानाचा परिचय विद्यार्थ्यांना करून देणे.

साध्य- प्रमाण भाषा आणि बोली तसेच स्पीम व पदविचार यांची माहिती विद्यार्थ्यांना झाली.

SEMESTER-VI

Department of Marathi
Course Objectives and Course Outcomes
Compulsory Marathi

Unit I:

प्रकरण - 6.उद्दिष्ट-चक्र या कथेतून महाभारतातील द्रौपदी या स्त्रीचे चित्रण विद्यार्थ्यांना माहित करून देणे.

साध्य- महाभारतातील द्रौपदीच्या मनातील गूढ वगुंतागुंतीचे भावनीक प्रसंगाची माहिती विद्यार्थ्यांना प्राप्त झाली.

प्रकरण - 7.उद्दिष्ट-पक्षीगान पाठातून पक्ष्यांच्या सौंदर्याचे दर्शन घडविणे..

साध्य-पक्षीगान मधून विविधपक्षी, पक्ष्यांची घरटी, त्यांची पिल्ले यांची माहिती व ओळख विद्यार्थ्यांना झाली.

प्रकरण - 8.उद्दिष्ट-अन्वरषा फकीर या मुस्लीम व्यक्तीमत्वाची ओळख विद्यार्थ्यांना करून देणे.

साध्य-लहान मुले, स्त्रीया, माणसे व आजुबाजूच्या गावातील जनतेसाठी उपयुक्त असे अन्वरषा फकीराचे व्यक्तिमत्व असल्याचे विद्यार्थ्यांना कळून आले.

प्रकरण –9.उद्दिष्ट– दाभोळकराच्या अंधश्रद्धा निर्मूलनाचे कार्याची माहिती विद्यार्थ्यांना करून देणे.
साध्य–वैज्ञानिक दृष्टिकोण व शास्त्रीय विचार पध्दतीने अंधश्रद्धा निर्मूलन करण्याचे घ्येय दाभोळकरांचे होते याची माहिती विद्यार्थ्यांना झाली.

प्रकरण –10.उद्दिष्ट–महिला ग्रामपंचायतीच्या निवडणूकीचे चित्रण विद्यार्थ्यांना सांगणे.

साध्य– ग्रामीण भागातील ग्रामपंचायत मधील निवडणूकीची माहिती व परिस्थितीची जाणीव विद्यार्थ्यांना आली.

Unit II:

कविता– 6.उद्दिष्ट–ही निळी पांढरी कवितेतील षरद ऋतूतील दुपारचे वर्णन करून देणे.

साध्य–इंदिरा संतानी केलेली षरद ऋतूतील उन्हाची माहिती विद्यार्थ्यांना प्राप्त झाली.

कविता –7.उद्दिष्ट–दोन ज्योती यातून कविने वर्णन केलेल्या दोन ज्योतीचा उलघडा करणे .

साध्य–एक दुःखाची ज्योत लाल असते व दुसरी दुःखाची ज्योत काळी असून तीचे दुःख कायम टिकणारे असते याची जाणीव विद्यार्थ्यांना झाली.

कविता– 8.उद्दिष्ट–पाऊस कवितेतून स्त्री मनाच्या विविध भावावस्था विद्यार्थ्यांना उलघडून दाखवणे .

साध्य–ग्रेस कवीने रेखाटलेले स्त्री वेदनेचे स्वरूप व स्त्री मनाच्या भावना याविषयी विद्यार्थ्यांना माहिती मिळाली.

कविता– 9.उद्दिष्ट–प्रेम कवितेच्या आधारे कविने रेखाटलेले पीडितांचे चित्रण करून जाणीव करून देणे.

साध्य–मानवी समाजरचनेत माणूसपण विसरत चालला असून पीडितांना न्याय मिळत नसल्याची साक्ष विद्यार्थ्यांना पटली.

कविता– 10.उद्दिष्ट– टाहारा कवितेतून आदिवासी समाजाला कसा पुढारी हवा याची माहिती विद्यार्थ्यांना देणे.

साध्य–कवितेत वर्णन केलेला आदिवासींचा पुढारी कविला हवा असल्याची जाणीव विद्यार्थ्यांना झाली.

Unit III:

प्रकरण – 3.उद्दिष्ट–ग्रंथपरीक्षण कसे करावे व ग्रंथवाचन करताना कोणते घटक बघावेत याची माहिती विद्यार्थ्यांना करणे.

साध्य– ग्रंथपरीक्षण करताना परिक्षणाची पहीली पायरी ग्रंथवाचन होय त्यानंतर इतर बाबींकडे लक्ष द्यावे याची माहिती विद्यार्थ्यांना प्राप्त झाली.

प्रकरण – 4.उद्दिष्ट–इंटरनेट आणि मराठी भाषा व साहित्य याची माहिती विद्यार्थ्यांना करून देणे.

साध्य– संगणक संवाद,मराठी संकेतस्थळे, इंटरनेटवरील मराठी दैनिके, व मायबोली या संकेतस्थळावरील लेख, कविता, व इतर मराठी साहित्याची माहिती विद्यार्थ्यांना झाली

Compulsory English Course Objectives and Course Outcomes

Objective: To enable students to read fluently with proper pronunciation and comprehend the prose.

Outcome: Students read fluently with proper pronunciation and comprehended the prose

Objective: to make students enable to understand and enjoy one act play

Outcome: Students understood and enjoyed one-act- play.

Objective: To enable students to understand the poets and their prescribed poetry.

Outcome- Students understood the theme of the poems and had knowledge about the prescribed poets.

Objective: To enable students to have knowledge of applied skills like composing an Email, Curriculum vitae, paragraph with the help of given hints/points.

Outcome: Students had knowledge of applied skills like composing an Email, Curriculum vitae, paragraph with the help of given hints/points.

Objective: To enrich conversational skills of students

Outcome: Conversational skill of students improved

Department Of Political Science Course Objectives and Course Outcomes

Course Objectives

- List the difference between scholarly and popular publication in Comparative Politics.
- To understand the issues of International and Domestic Politics and public Policy.

- To analyze contemporary problems in the countries under consideration in light of the conceptual frameworks presented in class.
- To discuss the major theories and concepts of political science and its subfields.
- To relate the basics of International Relations and the new trends in the realm of International Relations.

Course Outcomes

- Write an analysis of the institutions, political behavior and political ideas of another country comparing these attributes to the Indian model
- Exposed to issues of International and Domestic Politics and Public Policy
- Analyze contemporary problems in the countries under consideration in light of the conceptual frameworks presented in class.
- Presented with the major theories and concepts of political science and its sub fields.
- Aware with the basics of International Relations and the new trends in the realm of international relations.

Department of Economics Course Objectives and Course Outcomes

Unit -I: Economic Development and Growth

- Objective- To develop the ability to explain the core economic Sector of Economic Development and Growth.
- Outcome – Students learnt and accepted the Knowledge of Economic Development and Growth.

Unit –II: Planning and Policy

- Objective – To introduce the theory of Planning and Policy.
- Outcome - Students learnt the theory of Planning and Policy

Unit -III: Public Finance

- Objective- To develop preliminary knowledge of Public Finance.
- Outcome – Students learnt preliminary knowledge of Public Finance.

Unit –IV: International Trade

- Objective- To explain the theory of International Trade.
- Outcome –Students learnt about the theory of International Trade.

Department of Sociology Course Objectives and Course Outcomes Current Social Problems in India

Unit - I Education in Contemporary

Objective - To make the students in detail about Education in Contemporary India.

Outcome - Students understood the concept of Education in Contemporary India.

Unit - II Displacement and Rehabilitation

Objective – To make the students aware of Displacement and Rehabilitation.

Outcome – Students understood the concept of Displacement and Rehabilitation.

Unit - III Intolerance, Riot Crime

Objective - To make students know in detail about Intolerance, Riot Crime.

Outcome - Students understood the concept of Intolerance, Riot Crime.

Unit IV Corruption

Objective - To make students aware of Corruption.

Outcome -Students understood the concept of Corruption.

Department of History Course Objectives and Course Outcomes

Course Objectives

- To Study what were Russia's five-year plans?
- To understand Hitler - Mussolini's foreign policy.
- To understand the Causes of World War II.
- To study the United Nations the and performance of Suez Canal.

Course Outcomes

- Learned about Russia's Five-Year Plan
- Learned about Hitler - Mussolini's foreign policy in detail.
- Learned the reasons for the Second World War.
- Received information about the United Nations .
- Understood the performance of the Suez Canal, NATO SEATO, Warsaw Pact.

Department of Marathi Course Objectives and Course Outcomes Marathi Literature

Unit I:

गरुडझेप— भरत आंधळे

उद्दिष्ट गरुड जेप मधील लेखकानी नोकरीसाठी ध्येयवेडा प्रवास कसा केला याची माहिती देऊन विद्यार्थ्यांना प्रेरीत करणे.

साध्य— भरत आंधळेच्या वैयक्तिक प्रगतीचा व स्पर्धा परीक्षेच्या कार्याचा आढावा घेऊन विद्यार्थ्यांनी गरुडझेप आत्मकथनातून पेरणा घेतली.

प्राचीन मराठी वाङ्मयाचा इतिहास— ल.रा. नषिराबादकर.

उद्दिष्ट— प्राचीन मराठी वाङ्मयाचा इतिहासाच्या आधार संतसाहित्य, पंडिती साहित्य,षाहिरी साहित्य, बखर वाङ्मय या साहित्याची माहिती विद्यार्थ्यांना देणे

साध्य— संतसाहित्य, पंडिती साहित्य,षाहिरी साहित्य, बखर वाङ्मय या साहित्याची माहिती विद्यार्थ्यांना झाली.

भाषाविज्ञानाचा परिचय. डॉ. मालसे, डॉ. कृळकर्णी

उद्दिष्ट— भाषाविज्ञानाचा परिचय विद्यार्थ्यांना करून देणे.

साध्य— मराठी मुळाक्षरे, स्वन व स्वनांतरे यांची माहिती विद्यार्थ्यांना झाली.

Bachelor of Commerce

Course Objectives and Course Outcomes

Semester -I Compulsory English

Course Objective

Students will be able -

- To understand the meaning of Start-up through the prescribed Life Sketches of Start-up founders
- To understand financial and business acumen through basic research skills for business
- To understand and value inclusivity in human nature
- To prioritize the importance of human life and wealth
- To understand horror stories with elements of surprise and irony
- To understand expansive and imaginative concepts
- To understand the meanings of motivation and indomitable spirit
- To take up tasks and not to worry about the end result for the larger benefit of Human kind
- To understand that tranquil temperament is the most potent weapon one can have against diversity
- To understand grammar and apply it in their writing skills

Course Outcomes

- Understood the meaning of Start-up through the prescribed Life Sketches of Start-up founders
- Understood financial and business acumen through basic research skills for business
- Understood and value inclusivity in human nature
- Understood prioritize the importance of human life and wealth
- Understood horror stories with elements of surprise and irony
- Understood expansive and imaginative concepts
- Understood the meanings of motivation and indomitable spirit
- Understood tasks and not to worry about the end result for the larger benefit of Human kind
- Understood that tranquil temperament is the most potent weapon one can have against diversity
- Understood grammar and apply it in their writing skills

Department of Marathi

Course Objectives and Course Outcomes

- उद्दिष्टे:- 1. मराठी भाषेविषयी विद्यार्थ्यांमध्ये अभिरुची निर्माण करणे.
2. साहित्यलेखनाची व वाचनाची आवड निर्माण करणे.
3. विद्यार्थ्यांमध्ये असलेल्या सुप्त कलांगुणांना वाव देऊन त्यांच्यात साहित्यविषयक वृद्धिंगत करणे.
4. साहित्यातून मानवतावादी दृष्टिकोण रुजविणे.
5. साहित्यातून समाजातील प्रश्नांना वाचा फोडून त्यांचे निराकरण करणे.

- ध्येय:- 1. भावी काळात विद्यार्थ्यांमधून साहित्यनिर्मिती करणे.
2. अध्यापन व अध्ययनात विद्यार्थ्यांना सहभागी करून संवादशील वातावरण निर्मिती करणे.
3. विभागात विविध उपक्रमांचे आयोजन करून मराठी भाषेचा दर्जा वाढविणे.
4. विद्यार्थ्यांमध्ये संशोधनवृत्ती वृद्धिंगत करणे.
5. मराठी भाषेची प्रयोगशाळा निर्माण करणे.

By the end of this course, the students will be able to:

- CO1 भारतीय लोकशाहीचे मूल्य विद्यार्थ्यांमध्ये रुजविणे.
CO2 ग्रामीण जनजिवन व शेतीनिष्ठेशी विद्यार्थ्यांची नाळ जोळणे.
CO3 संताच्या व्यावहारीक विचारांचा परिचय घडविणे.
CO4 शाहू महाराजाच्या आरक्षण विषयी विचारांचा परिचय घडविणे.
CO5 काव्यातील रसग्रहणक्षमता विकसीत करणे.
CO6 विद्यार्थ्यांमध्ये आधुनिक मूल्य रुजविणे
CO7 विद्यार्थ्यांमध्ये सामाजिक बांधिलकी निर्माण करणे.
CO8 विद्यार्थ्यांमध्ये सर्जनशीलता निर्माण करणे.

Financial Accounting Course Objectives and Course Outcomes

Unit No. I - Financial Accounting.

- Objective- To make the students understand Financial Accounting. Meaning, Principles & Problem.
- Outcome -Students understood the following topics. Financial Accounting. Meaning, Objective, Principles & Problem.

Unit No 2- Hire Purchase Account.

- Objective - To make the students understand Hire Purchase Account Meaning, Method & Problems.
- Outcome- Students understood the following topics Hire Purchase Account Meaning, Method & Problems.

Unit No 3- Final Account of Co-Operative Societies.

- Objective - To make the students to understand the Final Account Co-Operative Societies .Introduction, Type, Co-operative Legislation and Problems.
- Outcome- Students understood the following topics Final Account of Co-Operative Societies Introduction, Type, Co-Operative Legislation and Problems

Unit No 4- Join Venture Accounts.

- Objective- To make the students understand Join Venture Accounts Meaning, Method and Problem.
- Outcome - Students understood the following topics Join Venture Accounts Meaning, Method and Problems.

BUSINESS ORGANISATION
Course Objectives and Course Outcomes

Objectives

- To make the students understand the concept, objective, importance of business.
- To acquaint the students with various forms of Business organization and their functioning.
- To make the students understand the concept, functions of Organization and types of Organization.
- To make the students understand the Internal constituents of the Business Organization Key Managerial Personnel, Chairman, Chief executive officer, E-Commerce, E-business and E-banking.

Outcomes

- Students understood the concept, objective and importance of business.
- Acquainted the students with various forms of Business organization and their functioning.
- Understood the concept, functions of Organization and types of Organization.
- Understood Internal constituents of the Business Organization Key managerial Personnel, Chairman, Chief executive officer, E-Commerce, E-business and E-banking.

Company Law

Course Objectives and Course Outcomes

Unit No. I - Background of New Company

- Objective - To make the students understand the Background of New Company Act 2013, Corporate Personality & Kinds of Company.
- Outcome - Students understood the following topics. Background of New Company Act 2013, Corporate Personality & Kinds of Company.

Unit No 2- Memorandum of Association, Article of Association and Prospectus.

- Objective - To make the students understand the Memorandum of Association, Article of Association and Prospectus.
- Outcome - Students understood the Memorandum of Association, Article of Association and Prospectus.

Unit No 3- Shares and Share Capital

- Objective- To make the students understand Shares and Share Capital.
- Outcome- Students understood the following topics Shares and Share Capital.

Unit No 4- Membership in a company, Director.

- Objective - To make the students understand Membership in a company, Director.
- Outcome- Students understood the following topics Membership in a company, Director.

Business Economics- I

Course Objectives and Course Outcomes

Unit I-

Nature and Scope of Business Economics:

Objective- To make the students understand the concept of Business Economics.

Outcomes- Students get well understood the following topics:

Business Economics.

Unit II-

Theory of Consumption:

Objective- To make the students understand the Law of Demand, Elasticity of Demand & Demand forecasting.

Outcomes-Students get well understood the following topics:

Law of Demand, Elasticity of Demand & Demand forecasting.

Unit III-

Theory of Production:

Objective- To make the students understand the Theory of Production.

Outcomes- Students get well understood the Theory of Production.

Unit IV-

Theory of Cost and Revenue:

Objective- Students should be aware of the Theory of Cost and Revenue.

Outcomes-Students get well understood Theory of Cost and Revenue.

Semester-II
Compulsory English
Course Objectives and Course Outcomes

Course Objectives

- To understand the meaning of Start-up through the prescribed Life Sketches of Start-up founders.
- To understand financial and business acumen through basic research skills for business.
- To understand and value inclusivity in human nature.
- To prioritize the importance of human life and wealth.
- To understand horror stories with elements of surprise and irony.
- To understand expansive and imaginative concepts.
- To understand the meanings of motivation and indomitable spirit.
- To take up tasks and not to worry about the end result for the larger benefit of Humankind.
- To understand that tranquil temperament is the most potent weapon one can have against diversity.
- To understand grammar and apply it in their writing skills.

Course Outcomes

- Understood the meaning of Start-up through the prescribed Life Sketches of Start-up founders.
- Understood financial and business acumen through basic research skills for business.
- Understood and valued inclusivity in human nature.

- Understood prioritizing the importance of human life and wealth.
- Understood horror stories with elements of surprise and irony.
- Understood expansive and imaginative concepts.
- Understood the meanings of motivation and indomitable spirit.
- Understood the tasks and not to worry about the end result for the larger benefit of Human kind.
- Understood that tranquil temperament is the most potent weapon one can have against diversity.
- Understood grammar and apply it to their writing skills.

Department of Marathi
Course Objectives and Course Outcomes

By the end of this course, the students will be able to:

- CO1 भारतीय लोकशाहीचे मूल्य विद्यार्थ्यांमध्ये रुजविणे.
- CO2 ग्रामीण जनजिवन व शेतीनिष्ठेशी विद्यार्थ्यांची नाळ जोळणे.
- CO3 संताच्या व्यावहारीक विचारांचा परिचय घडविणे.
- CO4 शाहू महाराजाच्या आरक्षण विषयी विचारांचा परिचय घडविणे.
- CO5 काव्यातील रसग्रहणक्षमता विकसीत करणे.
- CO6 विद्यार्थ्यांमध्ये आधुनिक मूल्य रुजविणे
- CO7 विद्यार्थ्यांमध्ये सामाजिक बांधिलकी निर्माण करणे.
- CO8 विद्यार्थ्यांमध्ये सर्जनशीलता निर्माण करणे.

Statistics and Business Mathematics
Course Objectives and Course Outcomes

Unit No. I - Statistics & Measures of Central Tendency

- Objective - To make the students understand the Background of Statistics & Measures of Central Tendency.
- Outcome - Students understood the following topics. Statistics & Measures of Central Tendency.

Unit No 2- Dispersion.

- Objective - To make the students understand Dispersion.
- Outcome - Students understood the following topics Dispersion.

Unit No 3- Skewness

- Objective - To make the students understand Skewness.
- Outcome - Students understood the following topics Skewness.

Unit No 4- Business Mathematics

- Objective- To make the students understand Business Mathematics.
- Outcome - Students understood the following topics.

BUSINESS MANAGEMENT

Course Objectives and Course Outcomes

Course Objectives

- To make the students understand the Meaning, types of management, Principles, function of Business Management.
- To make the students know about Planning and Decision Making.
- To make the students know about Delegation of Authority and coordination & Controlling.
- To expose the students for the applicability of recent trends in management practices.
- To make students familiar with the modern management practices being used by the corporate world.

Course Outcomes

- Understood the Meaning, types of management, Principles, and function of Business Management.
- Knew about Planning and Decision Making.
- Students knew about Delegation of Authority and coordination & Controlling.
- Exposed the students for the applicability of recent trends in management practices.
- Understood and became familiar with the modern management practices being used by the corporate world.

Secretarial Practice

Course Objectives and Course Outcomes

Unit No. 1 - Incorporation of Company

- Objective - To make the students understand the Incorporation of Company, Directors of Company.
- Outcome - Students understood the following topics Incorporation of Company, Directors of Company.

Unit No 2- Company Meeting, Company Agenda & Voting and Resolution.

- Objective - To make the students understand the Company Meeting, Company Agenda & Voting and Resolution.
- Outcome- Understood the Company Meeting, Company Agenda & Voting and Resolution.

Unit No 3- Report Writings, Secretarial audit & E-Governance and E-Filing

- Objective - To make the students understand Report Writings, Secretarial Audit & E-Governance and E-Filing.
- Outcome - Students get well understood the following topics Report Writings, Secretarial audit & E-Governance and E-Filing.

Unit No 4- Key Management Personnel, Appointment of Director & Management Remuneration.

- Objective - To Make the students understand Key Management Personnel, Appointment of Director & Management Remuneration.
- Outcome - Students understood the following topics Key Management Personnel, Appointment of Director & Management Remuneration.

Business Economics II
Course Objectives and Course Outcomes

Unit I-

Market Structure

Objective- To make the students understand the Market structure.

Outcome- Students understood the Market Structure.

Unit II-

Perfect & Imperfect Competition Markets

Objective- Students should become aware of Perfect& Imperfect Competition.

Outcome- Students understood Perfect& Imperfect Competition.

Unit III-

Theories of Distribution

Objective- Students should become aware of the Theory of Distribution.

Outcome- Students understood & they applied their knowledge.

Unit IV-

Business cycles & National Income

Objective- Students should become aware of Business cycles & National Income.

Outcome- Students understood Business cycles & National Income.

Semester-III
Compulsory English
Course Objectives and Course Outcomes

Course Objective

Students will be able -

- To understand the meaning of Start-up through the prescribed Life Sketches of Start-up founders
- To understand financial and business acumen through basic research skills for business
- To understand and value inclusivity in human nature
- To prioritize the importance of human life and wealth
- To understand horror stories with elements of surprise and irony
- To understand expansive and imaginative concepts
- To understand the meanings of motivation and indomitable spirit
- To take up tasks and not to worry about the end result for the larger benefit of Human kind

- To understand that tranquil temperament is the most potent weapon one can have against diversity
- To understand grammar and apply it in their writing skills

Course Outcomes

- Understood the meaning of Start-up through the prescribed Life Sketches of Start-up founders
- Understood financial and business acumen through basic research skills for business
- Understood and value inclusivity in human nature
- Understood prioritize the importance of human life and wealth
- Understood horror stories with elements of surprise and irony
- Understood expansive and imaginative concepts
- Understood the meanings of motivation and indomitable spirit
- Understood tasks and not to worry about the end result for the larger benefit of Human kind
- Understood that tranquil temperament is the most potent weapon one can have against diversity
- Understood grammar and apply it in their writing skills

Department of Marathi Course Objectives and Course Outcomes

By the end of this course, the students will be able to:

- CO1 मातृभाषेची आवड व जाणीव निर्माण करणे
- CO2 प्राचिन मराठीचे वैशिष्ट्ये स्पष्ट करणे.
- CO3 विनोदी लेखनात खेळकरवृत्तीचे दर्शन घडविणे.
- CO4 संत साहित्यातून सामाजिक, सांस्कृतीक, आध्यात्मिक लोकशाहीचा पुरस्कार करणे.
- CO5 स्त्री विषयक जाणिव जागृती करणे.
- CO6 वृत्त लेखन व कल्पना विस्तार तंत्राची माहिती अवगत करणे.

Financial Accounting-II Course Objectives and Course Outcomes

Unit I-

Consignment Accounts

Objective- Students should be aware of the topic of Consignment Accounts.

Outcomes- Students understood & solved the problems.

Unit II-

Hire Purchase:

Objective- Students should be aware of the topic of Hire Purchase.

Outcomes- Students understood & solved the problems.

Unit III-**Capital Structure & Issues of Shares.**

Objective- Students should be aware of the topic of Capital Structure & Issues of Shares.

Outcomes- Students understood & solved the problems of Issues of Shares.

Unit IV-**Final Accounts of Joint Stock Companies**

Objective- Students should be aware of topic of Final Accounts of Joint Stock Company.

Outcomes- Students understood & solved the problems.

**Business Communication & Management
Course Objectives and Course Outcomes**

Unit No. I - Meaning, Definition and concept of Communication, objective of Communication

Objective - To make the students understand the Meaning, Definition and concept of Communication, objective of Communication

Outcome - The students understood the Meaning, Definition and concept of Communication, the objective of Communication

Unit No 2- Business Communication.

Objective - To make the students understand the Business Communication.

Outcome- The students understood Business Communication.

Unit No 3- Technology and Business Communication

Objective - To make the students understand Technology and Business Communication.

Outcome- Students understood the following topics;
Technology and Business Communication.

Unit No 4- M.S. Office Aided Communication.

Objective - To make the students understand M.S. Office-Aided Communication.

Outcome - Students understood the following topics;
M.S. Office Aided Communication.

Business Law

Course Objectives and Course Outcomes

Course Objectives

- Students will be able to understand various provisions of the related Acts the course gives the knowledge regarding The Indian Contract Act, 1872, The Sales

of Goods Act, 1930, The Indian partnership Act 1932, Negotiable Instruments Act 1881.

- To make the students gain knowledge of various legal aspects of the business.
- To make the students understand laws that affect mercantile transactions.
- Students will be able to understand court interpretations of laws like, Prevention of Money Laundering Act-2002, Consumer Protection Act – 2002

Course Outcomes

- Student understood various provisions of the related Acts the course gives the knowledge regarding The Indian Contract Act, 1872, The Sales of Goods Act, 1930, The Indian partnership Act 1932, Negotiable Instruments Act 1881.
- Students gained knowledge of various legal aspects of the business.
- Students understood laws that affect mercantile transactions.
- Students understood court interpretations of laws like, the Prevention of Money Laundering Act-2002, Consumer Protection Act – 2002

Monetary Economics-I

Course Objectives and Course Outcomes

Unit I-

Money

Objective- To make the students understand the concept of Evolution of Money & Functions of Money.

Outcome-Students understood the concept of the Evolution of Money & Functions of Money.

Unit II-

Inflation & Deflation

Objective- To make the students understand the concept of inflation and deflation.

Outcome-Students developed their knowledge about inflation and deflation.

Unit III-

Money Market & Policies

Objective- To make the students understand the concept of the Money Market and Monetary Policy.

Outcome-Students understood & they applied their knowledge.

Unit IV-

Public Finance

Objective- To make the students understand the concept of Public Finance.

Outcome-Students applied & developed the knowledge.

Semester-IV
Compulsory English

Course Objectives and Course Outcomes

Course Objectives

Students will be able -

- To understand and value inclusivity in human nature
- To prioritize the importance of human life and wealth
- To understand horror stories with elements of surprise and irony
- To understand expansive and imaginative concepts
- To understand the meanings of motivation and indomitable spirit
- To take up tasks and not to worry about the end result for the larger benefit of Human kind
- To understand grammar and apply it in their writing skills

Course Outcomes

- Understood and value inclusivity in human nature
- Understood prioritize the importance of human life and wealth
- Understood horror stories with elements of surprise and irony
- Understood expansive and imaginative concepts
- Understood the meanings of motivation and indomitable spirit
- Understood tasks and not to worry about the end result for the larger benefit of Human kind
- Understood grammar and apply it in their writing skills

Department of Marathi
Course Objectives and Course Outcomes

By the end of this course, the students will be able to:

- CO1 मातृभाषेची आवड व जाणीव निर्माण करणे
 - CO2 प्राचिन मराठीचे वैशिष्ट्य स्पष्ट करणे.
 - CO3 विनोदी लेखनात खेळकरवृत्तीचे दर्शन घडविणे.
 - CO4 संत साहित्यातून सामाजिक, सांस्कृतिक, आध्यात्मिक लोकशाहीचा पुरस्कार करणे.
 - CO5 स्त्री विषयक जाणिव जागृती करणे.
 - CO6 वृत्त लेखन व कल्पना विस्तार तंत्राची माहिती अवगत करणे.
-

Financial Accounting III
Course Objectives and Course Outcomes

Unit I-

Final Accounts of Banking Companies

Objective- Students should become aware of the topic of Final Accounts of Banking Companies.

Outcome- Students understood and solved the Problems.

Unit II-

Final Accounts of General Insurance Companies

Objective- Students should become aware of the topic of Final Accounts of General Insurance Companies.

Outcome- Student understood and solved the Problems.

Unit III-

Valuation of Goodwill

Objective- Students should become aware of the topic of the Valuation of Goodwill.

Outcome- Student understood and solved the Problems.

Unit IV-

Liquidation of Company

Objective- Students should become aware of the topic of the Liquidation of Company.

Outcome- Student understood & solved the Problems.

Skill Development
Course Objectives and Course Outcomes

Unit No. I - Introduction- Basic Personality, Human Growth and Behavior and Motivation.

- Objective - To make the students understand the Introduction- Basic Personality, Human Growth and Behavior and Motivation.
- Outcome - The students understood the Introduction- Basic Personality, Human Growth and Behavior and Motivation.

Unit No 2- Communication Skill and Personality Development.

- Objective - To make the students understand Communication Skills and Personality Development.
- Outcome - The students understood the Communication Skills and Personality Development.

Unit No 3- Techniques in Personality Development.

- Objective - To make the students understand Techniques in Personality Development.
- Outcome - Students understood the following topics Techniques in Personality Development.

Unit No 4- Entrepreneurial Skill Development.

- Objective - To make the students understand Entrepreneurial Skill Development.
- Outcome- Students understood Entrepreneurial Skill Development.

Income Tax

Course Objectives and Course Outcomes

Course Objectives

- To make the students understand the basic concepts involved in the Income Tax act and the basics of income tax.
- To make the students understand the Taxable Salary and tax liability.
- Students get exposure to provisions of taxation of house property.
- To make the students understand Income Tax Slab Rates. They know how to deduct under section 80C, 80 CCC, 80CCD, 80D, 80DDB, 80E,80G, 80GG and 80U. Students get exposure to provisions of taxation of Income from other sources.
- They learn the procedure of filing tax returns, Advance tax and tax refunds.

Course Outcomes

- Understood the basic concepts involved in Income Tax act and also the basics of income tax.
- Understood the Taxable Salary and tax liability.
- Students got exposure to provisions of taxation of house property.
- Understood Income Tax Slab Rates. They know how to deduct under section 80C, 80 CCC, 80CCD, 80D, 80DDB, 80E,80G, 80GG and 80U. Students get exposure to provisions of taxation of Income from other sources. They learn the procedure of filing tax returns, Advance tax and tax refunds.

Monetary Economics-II Course Objectives and Course Outcomes

Unit I-

Commercial Bank

Objective-To make the students understand the functions of Commercial Bank.

Outcome-Students understood the functions of Commercial Bank.

Unit II-

E-Banking and Core Banking

Objective- To make the students understand -Banking and Core Banking.

Outcome-Students developed their knowledge.

Unit III-

Banks and Customers Relationship and Service

Objective- To make the students understand the Banks Customers Relationship and Service.

Outcome-Students understood & applied their knowledge.

Unit IV-

Central Bank

Objective- To make the students to understand the Central Bank.

Outcome-Students developed the knowledge about Central Bank.

Semester-V

Financial Accounting-IV

Course Objectives and Course Outcomes

Unit No. I - Amalgamations & Absorption of Companies.

Objective - To make the students understand Amalgamations & Absorption.

Outcome - Students understood the topics like Amalgamations & Absorption.

Unit No 2- Reorganization & reconstruction of Companies.

Objective - To make the students understand the Reorganization & reconstruction problem.

Outcome - Students understood the concepts of the Reorganization & reconstruction problems.

Unit No 3- Valuation of Shares

Objective - To make the students understand Valuation of Shares Problems.

Outcome- Students understood the Valuation of Shares Problems.

Unit No 4- Double Account system

Objective - To make the students understand Double Account system.

Outcome - Students understood the Double Account system.

Management Process

Course Objectives and Course Outcomes

Unit I-

Management and Administration

Objective- To make the students understand meaning and difference of Management and Administration.

Outcome-Students applied the knowledge of Management and Administration.

Unit II-

Managerial Development & Group Dynamics

Objective- To make the students to understand the Managerial Development & Group Dynamics

Outcome-Students understood the knowledge of Managerial Development & Group Dynamics.

Unit III-

Managerial Style

Objective- To make the students understand the Managerial Style.

Outcome-Students developed the knowledge of Managerial Style.

Unit IV-

Motivation:

Objective- To make the students understand the Motivation.

Outcome- Students understood the meaning of Motivation and their types.

Indian Economics
Course Objectives and Course Outcomes

Unit I-

Indian Economy & Planning:

Objective- To make the students understand the Indian Economy & Planning.

Outcomes-Students will be able to understand Indian Economy & Planning.

Unit II-

Indian Economy & Policy:

Objective- To make the students understand the Indian Economy & Policy.

Outcomes-Students will be able to understand Indian Economy & Policy.

Unit III-

Population & Unemployment:

Objective- To make the students understand the population & Unemployment

Outcomes-Students will be able to understand the population & Unemployment

Unit IV-

India's Public Finance:

Objective- To make the students understand Public Revenue and Public Expenditure.

Outcomes-Students will be able to understand the Public Revenue and Public Expenditure.

Computerize Accounting
Course Objectives and Course Outcomes

Objective - To make the students understand Introduction of Computerize Accounting, Advantage, Need and Accounting Groups.

Outcome - Students understood the following topics;
Introduction of Computerize Accounting, Advantage, Need and Accounting Groups.

Unit No 2- Accounting Software's.

Objective - To make the students understand Accounting Software.

Outcome - Students understood the topic- Accounting Software.

Unit No 3- Accounts Info Menu, Accounts Groups.

Objective - To make the students understand the Accounts Info Menu, Accounts Groups- Create Group, Ledger Accounts, Voucher & Features of Account Voucher.

Outcome - Students understood the following topics-
Accounts Info Menu, Accounts Groups-
Create Group, Ledger Accounts, Voucher & Features of Account Voucher.

Unit No 4- Inventory Info, Features of Inventory Info. Configure.

Objective - To make the students understand the Inventory Info, Features of the Inventory Info. Configure.

Outcome - Students understood the following topics-
Inventory Info, Features of Inventory Info. Configure.

Auditing

Course Objectives and Course Outcomes

-Course Objectives

- To make the Students learn a lot about the basics of audit and auditing, internal and external check, periodic audits, internal audit external audit , continuous audit, , cost audit, management audit and annual audit.
- To make the Students learn the Audit Planning and Audit Documentation and Evidence.
- To make the students understand standard on Auditing, Vouching & Verification Vouching, Verification of Assets and Liabilities.
- A glimpse into company audit gives an idea of appointing a company auditor, and the Procedure of audit in a company etc. along with the rules of company and corporate audit.

Course Outcomes

- Students learnt a lot about basics of audit and auditing, internal and external check, periodic audit, internal audit external audit , continuous audit, , cost audit, management audit and annual audit.
- Students learnt Audit Planning and Audit Documentation and Evidence.
- Students understood the standard on Auditing, Vouching & Verification Vouching, Verification of Assets and Liabilities.
- A glimpse into company audit gave an idea of appointing a company auditor, and the Procedure of audit in a company etc.along with the rules of the company and corporate audit.

Semester-VI

Financial Accounting-V

Course Objectives and Course Outcomes

Unit No. I - Accounting of Holding Company.

- Objective - To make the students understand Accounting of Holding Company
- Outcome - Students understood the following topics Accounting of Holding Company.

Unit No. 2 - Insurance Claims.

- Objective - To make the students understand the Insurance Claims.
- Outcome - Students understood the following topics Insurance Claims.

Unit No. 3 - Investment Accounts.

- Objective - To make the students understand Investment Accounts.
- Outcome - Students understood the topic- Investment Accounts.

Unit No. 4 - Profit Prior to Incorporation.

- Objective - To make the students understand the Profit Prior to Incorporation.
- Outcome - Students understood the topic- Profit Prior to Incorporation.

Management Accounting

Course Objectives and Course Outcomes

Course Objectives

- To make the students get a clear idea about the concept, objectives, importance and benefits of management accounting along with the basic advantages and significance of various techniques of management accounting and Break-Even Point Analysis.
- A good idea of preparing various budgets like cash budget, flexible budgets and capital budgets help in drafting budget and budget control measures in organizations.
- Students get a clear idea of Ratio Analysis like- Computation of Profitability Ratio, Financial Ratio with special reference to Current Ratio, Classification of Ratio, Liquid Ratio, Inventory Turnover Ratio, Debtors and Creditors Turnover Ratio, Debt-Equity Ratio, Working Capital Ratio, Earnings per Share Ratio.
- To make the students understand and get a clear idea of the Fund Flow Statement.

Course Outcomes

- Student got a clear idea about the concept, objectives, importance and benefits of management accounting along with the basic advantages and significance of various techniques of management accounting and Break-Even Poing Analysis.
- Understood good ideas of preparing various budgets like cash budget, flexible budgets and capital budgets help in drafting budget and budget control measures in organizations.
- Students understood clear idea of Ratio Analysis like- Computation of Profitability Ratio, Financial Ratio with special reference to Current Ratio, Classification of Ratio, Liquid Ratio, Inventory Turnover Ratio, Debtors and Creditors Turnover Ratio, Debt-Equity Ratio, Working Capital Ratio, Earnings per share Ratio.
- Understood and got clear idea of Fund Flow Statement

Advanced Statistics

Course Objectives and Course Outcomes

Objective - To make the students understand the Accounting of Correlation

Outcome - Students understood the following topics. Correlation Company

Unit No. 2 - Regression.

Objective- To make the students understand Regression.

Outcome - Students understood the Regression.

Unit No. 3 - Index Number.

Objective - To make the students to understand Index Number.

Outcome - Students understood the following topics Index Number.

Unit No. 4 - Time Series Analysis.

Objective - To make the students understand Time Series Analysis.

Outcome- Students understood the Time Series Analysis.

Indian Economics-II
Course Objectives and Course Outcomes

Unit I

Indian Agriculture

Objective- To make the students understand the Indian Agriculture.

Outcome-Students applied the knowledge.

Unit II

Indian Industry

Objective- To make the students understand the Indian Industry.

Outcome-Students created the knowledge.

Unit III

India's Service Sector and International Trade

Objective- To make the students understand the India's International Trade.

Outcome-Students developed the knowledge.

Unit IV

Contribution of Indian Economic Thinkers

Objective- To make the students understand the contribution of Indian Economic Thinkers (Mahatma Gandhi, Pandit Dindayal Upadhyaya, Dr. B. R. Ambedkar, Dr. Ram Manohar Lohiya.)

Outcome-Students understood the contribution of Indian Economic Thinkers (Mahatma Gandhi, Pandit Dindayal Upadhyaya, Dr. B. R. Ambedkar, Dr. Ram Manohar Lohiya.)

Human Resource Management
Course Objectives and Course Outcomes

Unit I-

Introduction

Objective- To make the students understand the concept of Human Resources Management & Human Resource Manager.

Outcome-Students understood the concept of Human Resources Management & Human Resource Manager.

Unit II-

Recruitment, selection and training

Objective- To make the students understand the Recruitment, selection and training

Outcome-Students understood the Recruitment, selection and training

Unit III-

Labor welfare and collective bargaining

Objective- To make the students to understand the Labor welfare and collective bargaining.

Outcome-Students understood the Labor welfare and collective bargaining.

Unit IV-

Human Resource Planning and Accounting

Objective- To make the students understand the Human Resource Planning and Accounting.

Outcome-Students understood Human Resource Planning and Accounting.

Industrial Law

Course Objectives and Course Outcomes

Course Objectives

- To make the students to understand The Indian Factories Act, 1948 and The Industrial Disputes Act, 1947.
- Learners learn Laws Relating to Wages, Laws Relating to Bonus and Gratuity, Laws Relating to Employee's State Insurance and Provident Fund and Laws Relating to Workmen Compensation and Maternity Benefits.
- To make the students to understand Child Labour Act, 1986, Trade Union Act, 1926, International Labour Organisation – ILO and Contract Labour Act, 1971.
- Students will be able to understand the meaning and nature of Industrial Estate, Technology Park, SEZ and Co-operative Industrial Estate.
- Learners learn Intellectual Property Rights Law in India and Environment Protection Act, 1986.

Course Outcomes

- Understood The Indian Factories Act, 1948 and The Industrial Disputes Act, 1947.
- Learned Laws Relating to Wages, Laws Relating to Bonus and Gratuity, Laws Relating to Employee's State Insurance and Provident Fund and Laws Relating to Workmen Compensation and Maternity Benefits.
- Understood Child Labour Act, 1986, Trade Union Act, 1926, International Labour Organisation – ILO and Contract Labour Act, 1971.
- Understood the meaning and nature of Industrial Estate, Technology Park, SEZ and Co-operative Industrial Estate.
- Learners learnt Intellectual Property Rights Law in India and Environment Protection Act, 1986.

Bachelor of Science (B.Sc.)

Semester-I

Department of English
Compulsory English

Course Objectives and Course Outcomes

Unit I: Objective- Making students' conscious about the functioning of Democracy.

Outcome- Students tried to understand the importance of democracy.

Unit II: Objective- Making students understand slavery and its effects.

Outcome- Students tried to understand the effects of slavery and its punishing practice.

Unit III: Objective- to make students understand correct usage of Tense, Transformation of sentences and Common errors.

Outcome- Students tried to solve the examples of Tense, Transformation of sentences and Common errors.

Unit IV: Objective- To create the ability of writing Curriculum Vitae.

Outcome- Students attempted to write the Curriculum Vitae.

Unit I: Objective- Making students conscious of slavery, education, and compassion.

Outcome- Students understood the issues related with slavery, education and struggle in life.

Unit II: Objective- Making students understand about Self- reliance, Indian Freedom and words of wisdom.

Outcome- students understood about Self- reliance, Indian Freedom and words of Wisdom.

Unit III: Objective- To make students understand the value of struggle, Kindness and honesty.

Outcome- students understood the value of struggle, Kindness and honesty.

Unit IV: Objective- To create the ability of writing and comprehension.

Outcome- Students attempted to write and comprehend the passage.

Department of Marathi Course Objectives and Course Outcomes

Course Objectives

उद्दिष्टे:- १. मराठी भाषेविषयी विद्यार्थ्यांमध्ये अभिरुची निर्माण करणे.

२. साहित्यलेखनाची व वाचनाची आवड निर्माण करणे.

३. विद्यार्थ्यांमध्ये असलेल्या सुप्त कलांगुणांना वाव देऊन त्यांच्यात

साहित्यविषयक वृद्धिंगत करणे.

४. साहित्यातून मानवतावादी दृष्टिकोण रुजविणे.

५. साहित्यातून समाजातील प्रश्नांना वाचा फोडून त्याचे निराकरण करणे.

ध्येय:- १. भावी काळात विद्यार्थ्यांमधून साहित्यनिर्मिती करणे.

२. अध्यापन व अध्ययनात विद्यार्थ्यांना सहभागी करून संवादशील वातावरण निर्मिती करणे.
३. विभागात विविध उपक्रमांचे आयोजन करून मराठी भाषेचा दर्जा वाढविणे.
४. विद्यार्थ्यांमध्ये संशोधनवृत्ती वृद्धिंगत करणे.
५. मराठी भाषेची प्रयोगशाळा निर्माण करणे.

Course Outcomes

साहित्य सेतू

- CO1 विद्यार्थ्यांमध्ये साहित्य विषयक आवड निर्माण करणे
- CO2 वाचन संस्कृतीचा पुरस्कार करणे
- CO3 भारतीय संविधानाचे महत्व समजावून सांगणे
- CO4 मानवी मुल्यांची जपणूक करणे
- CO5 कविता लंखनाचे तंत्र अवगत करणे
- CO6 पर्यावरण विषयक जागृती निर्माण करणे
- CO7 व्यावहारिक मराठीचे महत्व समजावून सांगणे

Department of Chemistry Programme Educational Objectives (PEOS)

PEO1: Graduates will pursue higher studies in related fields including management

PEO2: Graduates will perform as employee in private/government institutions rising up to top positions

PEO3: Graduates will become entrepreneurs.

PEO4: Graduates will prepare for various competitive examinations.

Programme Specific Outcomes (PSOS)

PSO-1: Gain the knowledge of Chemistry through theory and practical.

PSO-2: To explain nomenclature, stereochemistry, structures, reactivity, and mechanism of the chemical reactions.

PSO-3: Identify chemical formulae and solve numerical problems.

PSO-4: Use modern chemical tools, Models, Chem-draw, Charts and Equipment's.

PSO-5: Know structure-activity relationship

PSO-6: Understand good laboratory practices and safety.

PSO-7: Make aware and handle the sophisticated instruments/equipment.

PSO-8: Develop research-oriented skills.

PSO-9: Study and understand the different techniques used in purification of compounds

Programme Outcomes (POs)

- The students are expected to understand the fundamentals, principles, and recent developments in the subject area.
- It is expected to inspire and boost interest of the students towards chemistry as the main subject.
- To impart practical skills and learn basics behind experiments
- To prepare background for advanced and applied studies in chemistry.
- To inculcate the scientific temperament in the students and outside the scientific community.
- To inculcate the scientific temperament in the students and outside the scientific community.
- Use modern techniques, decent equipment and Chemistry software

Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: First/First

Subject: Chemistry

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
FY Paper-I Inorganic Chemistry (101)	101.1	<ul style="list-style-type: none">• To understand the basic structure of atom.• Understand shape of orbitals.• Understand periodic properties such as atomic and ionic radii, ionization energy, electron affinity etc.
	101.2	<ul style="list-style-type: none">• To understand the concept of covalent bond.• To understand the bond parameters and various types of types of hybridization.• To understand the ionic structures with respect to NaCl and CsCl.
	101.3	<ul style="list-style-type: none">• Understand s block element and their properties such as electronic configuration, atomic and ionic radii, I.P. etc.• Understand chemical properties of the noble gases, preparation, structures, bonding and applications.
	101.4	<ul style="list-style-type: none">• To understand the P block element. Comparative study of groups 15,16, 17 with respective their properties.• Understand the Hydrides, Oxides, Peroxyacids, Hydrides.
FY Paper-II Physical Chemistry (102)	102.1	<ul style="list-style-type: none">• Understand the common thermodynamics terms. Types of systems and varies thermodynamics processes.• State and path functions and their

		<p>differentiation.</p> <ul style="list-style-type: none"> Understand the first law of thermodynamics.
	102.2	<ul style="list-style-type: none"> Understand gas equation and laws. Understand qualitative discussion of the Maxwell-Boltzmann distribution. Understand ideal gas and real gases behaviors.
	102.3	<ul style="list-style-type: none"> Understand the Intermolecular forces, structure of liquid, structural difference between solid, liquid and gases. Properties of liquid like surface tension, viscosity, refractive index.
	102.4	<ul style="list-style-type: none"> Understand the concept of different types of surface phenomenon and catalytic property, like Adsorption mechanism of adsorption, factor affecting adsorption. Difference between adsorption and absorption, etc. Understand types of catalysis and enzymes.
F.Y. Chemistry Practical Course	103	<ul style="list-style-type: none"> Verify theoretical principles experimentally Interpret the experimental data Improve analytical skills Correlate the theory and experiments and understand their importance

Department of Physics

Programme Educational Objectives (PEOS)

- PEO1:** Graduates will pursue higher studies in related fields including management
- PEO2:** Graduates will perform as employee in private/government institutions rising up to top positions
- PEO3:** Graduates will become entrepreneurs.
- PEO4:** Graduates will prepare for various competitive examinations.

Programme Specific Objectives (PSOS)

- PSO-1:** Gain the knowledge of Physics through theory and experiments.
- PSO-2:** Understand good laboratory practices and safety.
- PSO-3:** Develop research-oriented skills.
- PSO-4:** Make aware and handle the sophisticated instruments/equipments.

Programme Outcomes (POs)

- Bachelor of Science offers theoretical as well as practical knowledge about different subject areas.
- This course forms the basis of science for coherent understanding of the academic field to pursue multi and interdisciplinary science careers in future. These subject areas include Physics, Chemistry, Mathematics and Botany and Zoology.
- Able to plan and execute experiments or investigations, analyze and interpret data information collected using appropriate methods
- It helps to develop scientific temper and thus can prove to be more beneficial for the society as the scientific developments can make a nation or society to grow at a rapid pace through research.
- Think critically; follow innovations and developments in science and technology.

Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: First/First

Subject: Physics

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
Paper 1: Properties of Matter and Mechanics (101)	101.1	<ul style="list-style-type: none">• Understand the mechanical behavior of the material and the fundamental terminology like Stress, Strain, Poisson's ratio, Hooks law, bending moment and modulus of elasticity
	101.2	<ul style="list-style-type: none">• Understand the concept of viscosity.• Apply Poiseuille's Equation, Bernoulli's Theorem, Stoke's law and the concept of terminal velocity.
	101.3	<ul style="list-style-type: none">• Understand the concept of surface tension and surface energy, Newton's laws of motion and to resolve the components of velocity and acceleration in different coordinate system.
	101.4	<ul style="list-style-type: none">• Understand the System of particles and conservation laws.
Paper 2: Electrostatics, Time varying fields & Electric Currents (102)	102.1	<ul style="list-style-type: none">• Understand the concept of Electrostatic force, Electric field, Electric potential, Electric dipole, Electric dipole moment.
	102.2	<ul style="list-style-type: none">• Understand the concept of polarization and capacitors with and without dielectric.• Apply Gauss law to parallel plate capacitor.
	102.3	<ul style="list-style-type: none">• To understand the concept of electromagnetic induction and transformer.• Apply equation of continuity and Kirchoff's law to rise and decay of current in LR, CR and LCR circuits.
	102.4	<ul style="list-style-type: none">• To apply complex number in solving an a.c. circuit.• Apply j- operator in LR, CR and LCR circuit.• Understand the concept of Resonance• Calculate I, Z, Φ and fr.
Physics Practical	103	<ul style="list-style-type: none">• Apply and demonstrate the theoretical concepts of Physics

(103)		and to develop scientific attitude. • Interpret the experimental data
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Department of Mathematics

Programme Educational Objectives (PEOs): B.Sc. (Mathematics)

1.	Graduates will pursue higher studies in related fields including management
2.	To prepare necessary knowledge base for research and development in Mathematics
3.	To help student's build-up a successful career in Mathematics

Programme Specific Outcomes (PSO): B.Sc. (Mathematics)

1.	Enhance students' ability to develop mathematical models
2.	Develop research-oriented skills.
3.	Nurture problem solving skills, thinking, and creativity through assignments, project Work.
4.	Prepare for various competitive exams

Programme Outcomes (POs): B.Sc. (Mathematics)

1.	Understand and solving of major concepts in all disciplines of mathematics.
2.	Solve the problem and also think methodically, independently and draw a logical conclusion.
3.	To inculcate the scientific temperament in the students and outside the scientific community.
4.	Create an awareness of the impact of mathematics on society and development outside the scientific community.
5.	Gain experience investigating the real-world problems and learn to how to apply Mathematical ideas and models to those problems.
6.	Understand and able to use mathematical formulae in another subject.

COURSE OUTCOMES (COs)

Course Name: B. Sc.

Year/Semester: First/First

Subject: Mathematics

After successful completion of three-year degree programme in **Mathematics** students should be able to;

Paper	CO	Outcomes
FY Paper-I Algebra and Trigonometry 101	101.1	Understand the basic concept related to Matrices and solve the problem based on a system of Linear equations
	101.2	Understand the general properties of equations and Solutions of Different equations
	101.3	Understand the basics of complex numbers and solve the problems

	101.4	understand Group theory and general properties
FY Paper-II 102 Calculus	102.1	Using Definition, verify the values of limit and continuity and solve the problem on Differentiation
	102.2	Understand the concept of Maclaurins and Taylor's theorem Identify Indeterminate forms and application of L'Hospitals Rule
	102.3	Understand the concept of partial differential equation, Eulers Theorem and Jacobians
	102.4	Identify the various types and methods to solve Integration and application of Reduction Formulae

Department of Zoology

PROGRAMME EDUCATIONAL OBJECTIVES (PEOs):

1.	Graduates will pursue higher studies in related fields including management
2.	Graduates will perform as employers in private/government institutions rising up to top positions
3.	Graduates will become entrepreneurs.

PROGRAMME OUTCOMES (PO)

1.	The students are expected to understand the fundamentals, principles, and recent developments in the subject area.
2.	It is expected to inspire and boost interest of the students towards zoology as the main subject.
3.	To impart practical skills and learn basics behind experiments.
4.	To prepare background for advanced and applied studies in zoology.
5.	To inculcate the scientific temperament in the students and outside the scientific community.
6.	To inculcate the scientific temperament in the students and outside the scientific community.
7.	Use modern techniques, decent equipments and Zoology softwares.

s PROGRAMME SPECIFIC OUTCOME

1.	Gain the knowledge of Zoology through theory and practicals.
2.	Use modern biological tools, Models, Charts and Equipment's.
3.	Know structure-activity relationship.
4.	Understand good laboratory practices and safety.
5.	Make aware and handle the sophisticated instruments/equipment.
6.	Develop research-oriented skills.
7.	Study and understand the different technique used in purification of compounds

COURSE OUTCOMES (COs)

Course Name: B. Sc.

Year/Semester: First/First

Subject: Zoology

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
FY Paper-I Life and Diversity of Animals – Non- chordates (Protozoa to Annelida) (101)	101.1	To understand general characters and classification up to classes of protozoa, structure and reproduction of <i>Paramoecium</i> , structure and life cycle of <i>Plasmodium</i> , parasitic Protozoans of Man (<i>Entamoeba</i> , <i>Trypanosoma</i> , <i>Giardia</i> and <i>Leishmania</i>). Mode of infection and its control.
	101.2	To understand the general characters and classification up to classes of porifera, Structure, reproduction and development, Canal system in sponges, General characters and classification up to classes of Coelenterata, structure and life cycle of <i>Obelia</i> , Polymorphism in hydrozoa.
	101.3	To Understand the Helminthes: General characters and classification up to classes, <i>Ascaris</i> : External morphology, reproductive system and life cycle, <i>Taenia solium</i> : Structure and life cycle, Elementary idea of parasitic adaptations in helminthes
	101.4	To Understand the Annelida : General characters and classification up to classes, Leech : Morphology, digestive and urinogenital system, Trochophore larva and its significance, Vermiculture and its importance
FY Paper-II Environmental Biology (102)	102.1	To understand the Atmosphere: Major zones and its importance, composition of air, Hydrosphere: Global distribution of water, Physico-chemical characteristics of water, Lithosphere: Types of rocks, formation of soil, Renewable and non-renewable energy sources
	102.2	Understand the Ecosystem - Definition and types, Detailed study of pond ecosystem, Food chain, food web and ecological pyramids, Energy flow in an ecosystem, Single channel, Y – shape and Universal model
	102.3	To understand the Biodiversity and its conservation, Causes of reduction of biodiversity, Wildlife conservation acts (1972 and 1984), Introductory study of national parks and sanctuaries – Tadoba, Kanha, Bharatpur and Nagzira, Hot spots of biodiversity in India
	102.4	To understand the Sources, effect and control measures of air pollution, Acid rain, green house effect, ozone depletion and global warming, Sources, effect and control measures of water pollution, Sources effect and control measures of noise pollution, Toxic effect of heavy metals (lead, cadmium and mercury) – Bioaccumulation and biomagnification
F.Y. Zoology Practical Course	103	<ul style="list-style-type: none"> • Verify theoretical principles experimentally • Interpret the experimental data • Improve analytical skills • Correlate the theory and experiments and understand their importance

Department of Botany

PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)	
1.	Graduates will pursue higher studies in related fields including management
2.	Graduates will perform as employee in private/government institutions rising up to top positions
3.	Graduates will become entrepreneurs.
4.	Graduates will prepare for various competitive examinations.

PO1. Understanding of Plant Diversity and its importance in the maintenance of ecological balance.

PO2. Students learn to carry out practical work, in the field and in the laboratory, interpreting plant morphology and anatomy, Plant identification, Vegetation analysis techniques.

PO3. Apply the knowledge of basic science, life sciences and fundamental process of plants.

PO4. Apply modern techniques and instruments for Biochemical estimation, Molecular Biology, Biotechnology, Plant Tissue culture experiments, cellular and physiological studies of plants with an understanding of the applications in human life.

PO5. Apply the knowledge gained from the studies for the upliftment of society via addressing health, environmental issues, food scarcity etc.

PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

PSO1. Critical evaluation of ideas and arguments by collecting relevant information about the plants, so as to recognize their position in the classification systems and at phylogenetic level.

PSO2. Students will be able to access the primary literature, identify relevant works for a particular topic, and evaluate the scientific content of these works

PSO3. Students will be able to compare and contrast the characteristics of the different groups of plants such as algae, fungi, bryophytes, pteridophytes, gymnosperms and angiosperms.

PSO4. Students will be able to use the evidence of comparative biology to explain how the theory of evolution offers the only scientific explanation for the unity and diversity of life on earth.

PSO5. Students will be able to explain how Plants function at gene, genome, cellular and tissue level,

PSO6. Students will be able to relate the physical features of the environment to the structure of populations, communities, and ecosystems.

PSO7. Students will be able to conceive the idea of artificial propagation of plants via vegetative methods and to find a livelihood via establishing miniature plant nurseries

Course Name: B. Sc.

Year/Semester: First/First

Subject: Botany

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
FY Paper-I Viruses, Prokaryotes,Algae And Biofertilizers (101)	101.1	<ul style="list-style-type: none">• To understand the nature of viruses, Ultra-structure and economic importance.• Understand the properties of Mycoplasma and its reproduction.• Understand general characteristics and reproduction in bacteria.
	101.2	<ul style="list-style-type: none">• To understand general characteristics and classification of algae• To understand the to understand general structure of Cyanobacteria and its reproduction.
	101.3	<ul style="list-style-type: none">• Understand life cycle of <i>Chara</i>, <i>Vaucheria</i>, <i>Ectocarpus</i>, and <i>Batrachospermum</i>.
	101.4	<ul style="list-style-type: none">• To understand Scope and importance of Biofertilizers.• Understand the microbes used in biofertilizers.
FY Paper-II Fungi, Plant Pathology,Lichens, Bryophyta and Mushroom Cultivation (102)	102.1	<ul style="list-style-type: none">• Understand the Characteristics of fungi.• Understand the reproduction and life cycle of <i>Albugo</i>, <i>Mucor</i>, <i>Puccinia</i> and <i>Cercospora</i>.
	102.2	<ul style="list-style-type: none">• Pathogen study, control and causes of diseases : leaf curl of papaya, Citrus canker and red rot of sugarcane
	102.3	<ul style="list-style-type: none">• Understand classification and general characteristics of Bryophyta.• Life history of <i>Marchantia</i>, <i>Anthoceros</i> and <i>Funaria</i>• To Study the nutritional and medicinal values of edible and non-edible mushrooms. Technology of mushroom cultivation
F.Y. Chemistry Practical Course	103	<ul style="list-style-type: none">• Study the fungal genera.• Study the lichens, thallus structure and types of lichens.• Plant pathological study.• Study of bryophytes and identification of its characteristics.• Preparation of mushroom beds.

Semester II
Department of English
Course Objectives and Outcomes
Compulsory English

Unit I : Objective-Making students conscious about the functioning of Democracy.

Outcome-Students tried to understand the importance of democracy.

Unit II: Objective- Making students understand slavery and its effects.

Outcome-Students tried to understand the effects of slavery and its punishing practice.

Unit III: Objective-To make students understand correct usage of Tense, Transformation of sentences and Common errors.

Outcome-Students tried to solve the examples of Tense, Transformation of sentences and Common errors..

Unit IV: Objective-To create the ability to write Curriculum Vitae.

Outcome-Students attempted to write the Curriculum Vitae.

Department of Marathi

Course Objectives and Outcomes

Programme Objectives

- उद्दिष्टे:—
1. मराठी भाषेविषयी विद्यार्थ्यांमध्ये अभिरुची निर्माण करणे.
 2. साहित्यलेखनाची व वाचनाची आवड निर्माण करणे.
 3. विद्यार्थ्यांमध्ये असलेल्या सुप्त कलांगुणांना वाव देऊन त्यांच्यात साहित्यविषयक वृद्धिंगत करणे.
 4. साहित्यातून मानवतावादी दृष्टिकोण रुजविणे.
 5. साहित्यातून समाजातील प्रश्नांना वाचा फोडून त्यांचे निराकरण करणे.

Course Outcomes

साहित्य सेतू

- ध्येय:—
1. भावी काळात विद्यार्थ्यांमधून साहित्यनिर्मिती करणे.
 2. अध्यापन व अध्ययनात विद्यार्थ्यांना सहभागी करून संवादशील वातावरण निर्मिती करणे.
 3. विभागात विविध उपक्रमांचे आयोजन करून मराठी भाषेचा दर्जा वाढविणे.
 4. विद्यार्थ्यांमध्ये संशोधनवृत्ती वृद्धिंगत करणे.
 5. मराठी भाषेची प्रयोगशाळा निर्माण करणे.

Department of Chemistry
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: First/ Second

Subject: Chemistry

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
FY Paper -I Organic Chemistry (201)	201.1	<ul style="list-style-type: none"> To make students understand different organic compounds and the concept structure and bonding in organic compounds. Understand the mechanism of organic reaction.
	201.2	<ul style="list-style-type: none"> Understand the concept of stereochemistry of organic compounds. To make the structure of Geometrical isomerism and conformational isomerism.
	201.3	<ul style="list-style-type: none"> Many of the daily used materials are organic compounds and majority of them are hydrocarbons therefore this topic makes the concept regarding their information
	201.4	<ul style="list-style-type: none"> Basic of the alkane and alkynes with respect to their chemical point of view. To understand the aromaticity of organic compounds.
F.Y. Pape-II Physical Chemistry (202)	202.1	<ul style="list-style-type: none"> To understand the thermodynamics of chemical reactions. Understand free energy functions like work function, Gibb's free energy etc.
	202.2	<ul style="list-style-type: none"> To understand the concept of phase equilibria. Statement of phase rule and term. Application of phase rule
	202.3	<ul style="list-style-type: none"> Understand the concept of nuclear chemistry and molecular structure
	202.4	<ul style="list-style-type: none"> To Understand the concept of chemical kinetics and theories of chemical kinetics.
F.Y. Chemistry Practical course	203	<ul style="list-style-type: none"> Verify theoretical principles experimentally Interpret the experimental data Improve analytical skills Correlate the theory and experiments and understand their importance

Department of Physics
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: First/Second

Subject: Physics

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
Paper 1: Oscillations, Kinetic theory of gases and Thermodynamics (201)	201.1	<ul style="list-style-type: none"> To understand the concept of linear and angular S.H.M., Damped harmonic oscillator
	201.2	<ul style="list-style-type: none"> To understand the concept of Forced oscillation with one degree of freedom and kinetic theory of gasses.
	201.3	<ul style="list-style-type: none"> To understand the Transport phenomenon in gases, Zeroth and First law of thermodynamics and Carnot's Theorem
	201.4	<ul style="list-style-type: none"> To understand second and third law of thermodynamics and Maxwell's general relationship and its applications
Paper 2: Gravitation, Astrophysics, Magnetism and Magnetostatics (202)	202.1	<ul style="list-style-type: none"> To understand Newton's laws of gravitation and the concept of Gravitational self-energy of the galaxy
	202.2	<ul style="list-style-type: none"> Know the constituents of universe (Solar system, Stars, Galaxies) and some physical aspects of universe
	202.3	<ul style="list-style-type: none"> To understand the concepts of Diamagnetism, Paramagnetism and Ferromagnetism and their applications
	202.4	<ul style="list-style-type: none"> To understand the Concept of magnetic field and to study various laws of magneto static and their applications.
Physics Practical (203)	203	<ul style="list-style-type: none"> Apply and demonstrate the theoretical concepts of Physics and to develop scientific attitude.

Department of Mathematics
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: First/ Second

Subject: Mathematics

After successful completion of three-year degree programme in **Mathematics** students should be able to;

Paper	CO	Outcomes
FY Paper-I 201 Geometry, Differential and Difference Equations	201.1	Understand the concept of Solid Geometry
	202.2	Identify and solve the problems on Differential equations of first order
	203.3	Understand the Higher order linear differential equations with constant coefficient
	204.4	Understand the basic concept of Difference equation
FY Paper-II 202	202.1	Students learn the concept of Vector differentiation and Line Integral
	202.2	Learn the evaluation of area by double Integral
	202.3	Apply integration to evaluate over surface and volume
	202.4	Evaluate Improper Integrals also study the gamma and Beta functions

Department of Zoology
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: First/Second

Subject: Zoology

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
FY Paper -I Life and Diversity of Animals – Nonchordates (Arthropoda to Hemichordata) (201)	201.1	To understand the, Arthropoda : General characters and classification up to classes, Cockroach : Mouth parts, digestive system and reproductive system, Insects as Vectors : Mosquito, Housefly, Sandfly, Tse-Tse fly, Study of crustacean larvae : Nauplius, Zoea and Megalopa; Social behavior in honey bees
	201.2	To understand the Mollusca : General characters and classification up to classes, <i>Pila</i> : Morphology, digestive, respiratory and reproductive system, Pearl formation in Mollusca, Molluscan larvae : Glochidium and Veliger
	201.3	To understand the Echinodermata : General characters and classification up to classes, <i>Asterias</i> : External features and digestive system, Water vascular system and locomotion in Starfish, Echinoderm larvae : Bipinnaria and Auricularia
	201.4	To understand Hemichordata : General characters and phylogeny, <i>Balanoglossus</i> : External features and digestive system, Reproduction in <i>Balanoglossus</i> , Tornaria larva, Affinities of <i>Balanoglossus</i>
F.Y. Paper-II Cell Biology (202)	202.1	To understand the Ultrastructure of prokaryotic and eukaryotic cell, Plasma membrane: Structure- Fluid Mosaic Model and functions, Endoplasmic reticulum: Types, ultrastructure and functions, Golgi complex: Ultrastructure and functions
	202.2	To understand Ultrastructure of mitochondria, Oxidative phosphorylation – Glycolysis and Krebs' cycle, Electron Transport Chain and terminal oxidation, Lysosome: Structure, polymorphism and functions
	202.3	To understand the Nucleus: Ultrastructure of nuclear membrane, Structure and functions of nucleolus, Chromosome: Structure and types, structure of nucleosome, Giant chromosomes: Lamp-brush and polytene chromosome
	202.4	To understand the Ribosome: Structure, types, Lake's model and functions, Somatic cell division: Cell cycle and Mitosis, Meiosis (different phases and significance), synaptonemal complex, Cellular ageing and cell death, Elementary idea of cancer and its causative agents
F.Y. Zoology Practical course	203	<ul style="list-style-type: none"> • Verify theoretical principles experimentally • Interpret the experimental data • Improve analytical skills • Correlate the theory and experiments and understand their importance

Department of Botany
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: First/Second

Subject: Botany

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
FY Paper -I Paleobotany, Pteridophytes, Gymnosperms and Soil Analysis (201)	201.1	<ul style="list-style-type: none"> • To make students understand fossils, Pseudofossils, and its importance. • Knowledge about types of fossils. • Details of Geological time scale. • Differentiation among the types of fossil.
	201.2	<ul style="list-style-type: none"> • Study the general characteristics of Pteridophytes and its classification. • Life history of <i>Selaginella</i>. And <i>Equisetum</i>.
	201.3	<ul style="list-style-type: none"> • Classify the Gymnosperms, its characteristics and economic importance. • Understand the fossil gymnosperm. • Study the life cycle of <i>Cycas</i> and <i>Pinus</i>
	201.4	<ul style="list-style-type: none"> • Skill development and soil analysis. • Identification of types of soil on the basis of its color and texture. • Study the physical properties of soil. • Understand the pH of soil and nitrogen availability in it.
F.Y. Pape-II Morphology of Angiosperms and Floriculture (202)	202.1	<ul style="list-style-type: none"> • Study the morphological characteristics of plants. • Identification of morphological characters of plants. • Study the modification occur in root, stem and leaf.
	202.2	<ul style="list-style-type: none"> • Study the reproductive morphology. • Study the types of inflorescence. • Study the calyx, corolla and Androecium.
	202.3	<ul style="list-style-type: none"> • Understand the structure of gynoecium. • Study the fruit and its types.
	202.4	<ul style="list-style-type: none"> • Develop the skills of floriculture and cultivation • Method of cultivation.
F.Y. Botany Practical course	203	<ul style="list-style-type: none"> • Study of different root and stem modification and branching patterns. • Study the types of leaf and its phyllotaxy, venation and modification. • Understand the flower structure and position of calyx, corolla, androecim and gynoecium.

Semester-III
Department of Chemistry
COURSE OUTCOMES (COs)

Course Name: B. Sc.

Year/Semester: Second/Third

Subject: Chemistry

After the successful completion of the course, students will be able to-

Paper	CO	Outcomes
S.Y Paper-I Inorganic Chemistry (301)	301.1	<ul style="list-style-type: none"> Understand the concept of molecular orbital theory and VSEPR theory.
	301.2	<ul style="list-style-type: none"> Understand the properties of d and f block elements.
	301.3	<ul style="list-style-type: none"> Understand the role of nonaqueous solvents. Understand concept of errors and evaluation in chemical analysis.
	301.4	<ul style="list-style-type: none"> Understand the concept of chemistry of Lanthanides and Actinides series.
S.Y. Paper-II Organic Chemistry (302)	302.1	<ul style="list-style-type: none"> Understand the structure and chemical bonding in aryl, alkyl halides, and aldehydes.
	302.2	<ul style="list-style-type: none"> Understand the structure and chemical bonding in alcohols and phenols.
	302.3	<ul style="list-style-type: none"> Understand the nomenclature, structure of the carbonyl group, synthesis of aldehydes and ketones
	302.4	<ul style="list-style-type: none"> Understand chemical reaction of carboxylic acids and its derivatives.
S.Y. Chemistry Practical Course	303	<ul style="list-style-type: none"> Verify theoretical principles experimentally Interpret the experimental data Improve analytical skills Correlate the theory and experiments and understand their importance

Department of Physics
COURSE OUTCOMES (COs)

Course Name: B. Sc.

Year/Semester: Second/Third

Subject: Physics

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
Paper 1: Sound Waves, Applied Acoustic, Ultrasonic and Power Supply	301.1	<ul style="list-style-type: none"> Understand the concept of group and phase velocities, formation of standing waves and diagrammatic introduction of human ear and its responses.
	301.2	<ul style="list-style-type: none"> Understand the working of transducers and their characteristics and the concept of acoustic and its

(301)		applications.
	301.3	<ul style="list-style-type: none"> Understand the production and applications of ultrasonic waves.
	301.4	<ul style="list-style-type: none"> Understand the concept of voltage regulation and working of the half, full and bridge rectifier.
Paper 2: Physical Optics and Electromagnetic Waves (302)	302.1	<ul style="list-style-type: none"> Understand the concept of interference of light through thin film Apply the concept of interference of light through thin film in wavelength determination.
	302.2	<ul style="list-style-type: none"> Understand the concept of diffraction, Resolving Power of grating and Rayleigh's criterion for resolution.
	302.3	<ul style="list-style-type: none"> Understand the concept of polarization and double refraction
	302.4	<ul style="list-style-type: none"> Understand the origin and characteristics of EM waves, Physical significance of Maxwell's equations, Characteristics impedance of dielectric and Poynting theorem.
Physics Practical (303)	303	<ul style="list-style-type: none"> Apply and demonstrate the theoretical concepts of Physics and to develop scientific attitude.

Department of Mathematics
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Second/Third

Subject: Mathematics

After successful completion of three-year degree programme in Mathematics students should be able to;

Paper	CO	Outcomes
SY Paper-I 301 Advanced Calculus, Sequences & Series	301.1	Students understand Mean Value theorem
	301.2	Learn about an envelope of a family of curves in the plane and study the Lagranges Multiplier method
	301.3	Understand the concept of sequence
	301.4	Use Tests for convergence
SY Paper-II 302 Differential Equation and Group Homomorphism	302.1	Understand the concept of Special Functions(Bessels and Legendre's function)
	302.2	Students understand the concept of Laplace Transform and solve the problems
	302.3	Applications of Laplace Transform & Fourier Transform
	302.4	Students develop knowledge in group theory

Department of Zoology
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Second/Third

Subject: Zoology

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
S.Y	301.1	Understand the Protochordata : General characters and classification

Paper-I Life and Diversity of Animals - Chordates (Protochordata to Amphibia) (301)		up to order, <i>Herdmania</i> : Structure, digestive system, ascidian tadpole and retrogressive metamorphosis, <i>Amphioxus</i> : Structure, digestive system, circulatory system, sense organs and protonephridia, Agnatha : General characters of Cyclostomata (<i>Petromyzon</i> and <i>Myxine</i>)
	301.2	Understand the Pisces : Salient features of Chondrichthyes and Osteichthyes, Origin of paired fins in fishes, Migration and Accessory respiratory organs in fishes, Amphibia : General characters and classification up to order, Parental care and Neotony in Amphibia
	301.3	Understand the Gametogenesis and type of eggs, Fertilization of egg, Post fertilization development of fish, Types of scales of fishes, Development of placoid scales
	301.4	Understand the Frog Embryology - Cleavage , blastulation and gastrulation, Fate map, Morphogenetic movements in gastrula of frog, Development of respiratory organs in frog, Development of Aortic arches of frog
S.Y. Paper-II Organic Zoology (302)	302.1	Understand the Mendelian Principles- Dominant recessive relationships, Mendelian laws, Interaction of genes- Epistasis - dominant and recessive, codominance, incomplete dominance, Quantitative genetics – Polygenic traits, inbreeding and outbreeding, hybrid vigor, Extracellular genome – Presence and functions of mitochondrial DNA, plasmids
	302.2	Understand the concept of Cytoplasmic inheritance- <i>Kappa</i> particles in <i>Paramecium</i> , CO ₂ sensitivity in <i>Drosophila</i> , milk factor in mice, Linkage and crossing over – Basic concepts of linkage, types and theories, Concepts of genes – Cistron , muton and recon, Genetic disorders in human beings – Haemoglobin disorders – Thalassemia and Sickle cell anemia. Metabolic disorder: Phenylketonurea
	302.3	Understand the concept of Sex determination – ZZ, XY, XO, ZW pattern, Sex determination in <i>Drosiphila</i> – Genic balance theory, Environmental sex determination in <i>Bonellia</i> , Chromosomal aberrations: addition, deletion, duplication and inversion, Gene mutations- Spontaneous and induced mutations, mutagenic agents, Disorders related to chromosomal number- Turner syndrome, Klinefelter syndrome and Down syndrome
	302.4	Understand the Lethal genes – Concepts and consequences, Population genetics: Basic concepts in population genetics, Hardy Weinberg equilibrium and its significance, Genetic counseling – Introduction , purpose, hereditary diseases and disorders, Applied genetics - DNA fingerprinting , amniocentesis, sperm banks, karyotyping
S.Y. Zoology Practical Course	303	<ul style="list-style-type: none"> • Verify theoretical principles experimentally • Interpret the experimental data • Improve analytical skills • Correlate the theory and experiments and understand their importance

Department of Botany
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Second/Third

Subject: Botany

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
S.Y Paper-I Botany (301)	301.1	<ul style="list-style-type: none"> Understand the study of angiosperms, Fossil angiosperms, Angiosperms taxonomy. Understand the nomenclature. Study the trends in taxonomy.
	301.2	<ul style="list-style-type: none"> Understand the classification system of Bentham and Hooker, Engler and Prantle.
	301.3	<ul style="list-style-type: none"> Study the types of pollination and its significance Study the structure of anther, pollen grain and male gametophyte development. Study the types of ovules and female gametophyte. Understand the fertilization process.
	301.4	<ul style="list-style-type: none"> Study the skills of landscaping and gardening.
S.Y. Paper-II Angiosperm anatomy and Horticulture (302)	302.1	<ul style="list-style-type: none"> Understand anatomical features of plants and its organs. Study the tissue its types and functions.
	302.2	<ul style="list-style-type: none"> Study the primary and secondary growth in stem and root.
	302.3	<ul style="list-style-type: none"> Study the periderm growth rings, sap heartwood, leaf anatomy. Study the Senescence and Abscission.
	302.4	<ul style="list-style-type: none"> Study the techniques of horticulture, methods of propagation. Learn the technique of bonsai preparation.
S.Y. Botany Practical Course	303	<ul style="list-style-type: none"> Study the simplest and complex tissue from permanent micro-preparation. Identification of types of vascular bundle. Anatomy of Dicot and Monocot stem with temporary or double stained. Study the internal structure of dicot and monocot leaf.

SEMESTER IV

Department of Chemistry
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Second/Fourth

Subject: Chemistry

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
S.Y. Paper-I	401.1	<ul style="list-style-type: none"> Understand the properties of coordination compounds. Chelates: classification and their

Inorganic Chemistry (401)		application and valance bond theory of complexes.
	401.2	<ul style="list-style-type: none"> Understand the concept of isomerism in coordination compounds. Concept of oxidation and reduction and balancing of redox reaction.
	401.3	<ul style="list-style-type: none"> Understand the concept of colorimetry and spectrophotometry. Understand the concept of separation technique like chromatography ion exchange and solvent extraction.
	401.4	<ul style="list-style-type: none"> Understand the concept of inorganic polymers.
S.Y. Paper-II Physical Chemistry (402)	402.1	<ul style="list-style-type: none"> Understand solid state and their classification and their laws. To understand the concept of determination of crystal structure.
	402.2	<ul style="list-style-type: none"> Understand electrochemistry of reversible and irreversible cells. Understand the concept of electrical transport and transport number.
	402.3	<ul style="list-style-type: none"> Use spectroscopy for chemical analysis. Understand types of spectroscopy.
	402.4	<ul style="list-style-type: none"> Understand the concept of quantum chemistry and wave function.
S.Y. Chemistry practical Course	403	<ul style="list-style-type: none"> Verify theoretical principles experimentally Interpret the experimental data Improve analytical skills Correlate the theory and experiments and understand their importance

**Department of Physics
Course Outcomes (COs)**

Course Name: B. Sc.

Year/Semester: Second/Fourth

Subject: Physics

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
Paper 1: Solid State Physics, X-ray and Laser (401)	401.1	<ul style="list-style-type: none"> Understand the basic concept of crystallography, find various lattice parameters, find Miller Indices of the given plane and draw planes from the set of Miller Indices.
	401.2	<ul style="list-style-type: none"> Understand main feature of continuous X-ray spectra and Characteristics X-ray spectra, Apply Moseley's law to determine wavelength of X-ray.
	401.3	<ul style="list-style-type: none"> Understand the basic concept of solid state physics. Apply Bragg's law for wavelength determination and simple cubic structure determination.

		<ul style="list-style-type: none"> Calculate Miller indices of the given plane and identify the orientation of the plane from the given set of Miller indices.
	401.4	<ul style="list-style-type: none"> Understand the concepts of LASER emission. Understand the construction and working of various types of LASER.
Paper 2: Solid State Electronics, and Molecular Physics (402)	402.1	<ul style="list-style-type: none"> Understand the construction and working and characteristics of various solid state devices.
	402.2	<ul style="list-style-type: none"> Understand the construction and working and characteristics of various FETs.
	402.3	<ul style="list-style-type: none"> Understand the concept molecular physics.
	402.4	<ul style="list-style-type: none"> Understand and apply the Raman spectroscopy.
Physics Practical (403)	403	<ul style="list-style-type: none"> Apply and demonstrate the theoretical concepts of Physics and to develop scientific attitude.

Department of Mathematics
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Second/Fourth

Subject: Mathematics

After successful completion of three-year degree programme in Mathematics students should be able to;

Paper	CO	Outcomes
SY Paper-I 401 Partial Differential Equations & Calculus of Variation	401.1	Understand the concept of ordinary Differential Equations in more than two variables
	401.2	Use the methods to solve the linear and nonlinear partial differential equations of first order
	401.3	Understand the concept of Higher Partial Differential Equations
	401.4	Find the distance between the curves and understand the concept of Eulers differential equation
SY Paper-II 402 Mechanics	402.1	Students learn about Coplanar Forces, Virtual Work and Catenary
	402.2	Understand the velocity, Acceleration and simple harmonic Motion
	402.3	Understand the concept of Lagranges Equations of motion
	402.4	Learn the problem of two bodies moving under the influence of a mutual central force

Department of Zoology
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Second/Fourth

Subject: Zoology

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
S.Y.	401.1	Understand the Reptilia- Classification based on temporal

Paper-I Life and Diversity of Animals – Chordates (Reptilia, Aves and Mammals) (401)		vacuities, Poison apparatus, biting mechanism , snake venom and its importance, Aves – Comparison of Ratitae and Caranitae, Flight adaptations and migration, Mammals – General characters of Prototheria, Metatheria and Eutheria
	401.2	Understand the Modern theories of evolution : Darwinism and Neo-Darwinism, Adaptations – Cursorial, Aquatic, Terrestrial, Fossorial and Volant, Introduction to genetic basis of evolution – Species Deme, Variation, Races in Man (Caucasoid, Negroid, Mongoloid and Australoid)
	401.3	Understand the Comparative account of aortic arches and heart in Reptiles, Birds and Mammals, Structure of hen’s egg, Development of chick up to primitive streak stage, Development of extra embryonic membranes in chick and functions
	401.4	Understand the Frog Embryology - Cleavage , blastulation and gastrulation, Fate map, Morphogenetic movements in gastrula of frog, Development of respiratory organs in frog, Development of Aortic arches of frog
S.Y. Paper-II Molecular Biology and Immunology(402)	402.1	Understand the DNA: Structure of DNA, forms of DNA, properties of DNA, DNA as a genetic material, RNA: Structure of RNA, types of RNA, RNA as a genetic material, Prokaryotic and eukaryotic gene structure, Recombination in Bacteria: Bacterial transformation – Griffith’s experiment, Conjugation in bacteria, transduction
	402.2	Understand the concept DNA replication: Semiconservative model, Meselson Stahl experiments. Process of replication – origin of replication, concept of replication, directionality of replication, Genetic code: Characteristics of genetic code, Wobble hypothesis, Protein synthesis: Transcription mechanism – Initiation , elongation and termination of transcription. Translation – activation of amino acids, transfer of activated amino acids to tRNA, Initiation, elongation and termination of polypeptide chain; inhibitors of protein synthesis, Gene regulation models- Lac operon and tryptophan operon
	402.3	Understand the Concepts of immunity – Innate and acquired immunity, organs of the immune system, Antigen - Structure, diversity, functions and types of antigen, Antibody- Structure, types and functions, Antigen-antibody interaction – Precipitation and agglutination
	402.4	Understand the Types of immune response: B cell response (antibody mediated), T cell response (cell mediated), Complement system: Basic concepts of complement cascades, classical, alternative and MBL pathways, implications of complement system in immune defense, Cytokines- General account on cytokines, Cytokine related diseases, Autoimmunity and immunodeficiencies- Autoimmune diseases and their treatment, AIDS and other immunodeficiencies
S.Y. Zoology practical Course	403	<ul style="list-style-type: none"> • Verify theoretical principles experimentally • Interpret the experimental data • Improve analytical skills • Correlate the theory and experiments and understand

		their importance
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Department of Botany
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Second/Fourth

Subject: Botany

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
S.Y. Paper-I Cell biology, Plant Breeding, Evolution, and Technology (401)	401.1	<ul style="list-style-type: none"> Understand the brief account of cell theory. Comparison between eukaryotic and prokaryotic cell. Structure and function of cell wall, Endoplasmic reticulum, Golgi complex, plasma membrane, Ribosome and Vacuole.
	401.2	<ul style="list-style-type: none"> Understand the structure and functions of chloroplast, Mitochondria and Nucleus. Understand the chromosome morphology, Molecular organization of chromosomes. Understand the sex chromosomes and cell division process.
	401.3	<ul style="list-style-type: none"> Understand plant breeding, methods of plant breeding. Understand the biostatistics and determine the Mean, Mode, Median. Understand the evolution process.
	401.4	<ul style="list-style-type: none"> Understand the seed development technology which is used to increase a commercial value of seeds.
S.Y. Paper-II (402)	402.1	<ul style="list-style-type: none"> Understand the principle of Mendelism. Understand the linkage and crossing over process.
	402.2	<ul style="list-style-type: none"> Understand the Mutation , chromosomal aberrations and variation in chromosome number. Understand the DNA damage and repair process.
	402.3	<ul style="list-style-type: none"> Study the concept of DNA and RNA. Understand the concept of gene, genetic code. Understand the process of protein synthesis and regulation of gene interaction.
	402.4	<ul style="list-style-type: none"> Study the skill development. Develop the skills related with plant nursery. Understand the nursery management techniques..
S.Y. Botany practical Course	403	<ul style="list-style-type: none"> Study the Mendel's law of segregation with help of color beads. Prove the Mendel's law of independent assortment. Study the different method of vegetative propagation. Study the method of soil sterilization for plant nursery.

SEMESTER V
Department of Chemistry
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Third/Fifth

Subject: Chemistry

After the successful completion of the course students will be able to-

Paper	CO	Outcome
T.Y. Paper-I Organic Chemistry (501)	501.1	<ul style="list-style-type: none"> Understand the concept of organic compounds of nitrogen and amines.
	501.2	<ul style="list-style-type: none"> Understand heterocyclic compounds and their structure.
	501.3	<ul style="list-style-type: none"> Understand quantitative analysis: Estimation of carbon, hydrogen and nitrogen etc. Understand reaction and structure of organometallic compounds.
	501.4	<ul style="list-style-type: none"> To study Spectroscopy. To understand Electromagnetic and Infrared absorption spectroscopy
T.Y. Paper-II Physical Chemistry (502)	502.1	<ul style="list-style-type: none"> Understand electrochemistry and various types of cells. Understand types of reversible electrodes.
	502.2	<ul style="list-style-type: none"> Understand quantum chemistry and molecular orbital theory.
	502.3	<ul style="list-style-type: none"> Understand the concept of Photochemistry. To study Raman Spectroscopy
	502.4	<ul style="list-style-type: none"> To understand colligative properties and macromolecules.
T.Y. Chemistry Practical Course	503	<ul style="list-style-type: none"> Verify theoretical principles experimentally Interpret the experimental data Improve analytical skills Correlate the theory and experiments and understand their importance

Department of Physics
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Third/Fifth

Subject: Physics

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
Paper 1: Atomic Physics, Free Electron Theory and Statistical	501.1	<ul style="list-style-type: none"> Understand Vector atom Model, the concept of space quantization, Zeeman Effect and L-S and J-J coupling.
	501.2	<ul style="list-style-type: none"> Apply free electron theory and band theory of solid

Physics (501)		to classify solids as conductor, semiconductor and insulator.
	501.3	<ul style="list-style-type: none"> Understand and apply Maxwell-Boltzmann statistics
	501.4	<ul style="list-style-type: none"> Understand and apply Bose-Einstein statistics and Fermi-Dirac statistics.
Paper 2: Quantum Mechanics, Nanomaterials and Nanotechnology (502)	502.1	<ul style="list-style-type: none"> Understand the basics of quantum mechanics and apply it to explain the phenomena like black body radiation and Compton Effect.
	502.2	<ul style="list-style-type: none"> Understand and apply Schrodinger's equation to free particle in a one and three dimension.
	502.3	<ul style="list-style-type: none"> Understand the basics of nanotechnology.
	502.4	<ul style="list-style-type: none"> Understand the synthesis and characterization techniques of nano materials.
Physics Practical (503)	503	<ul style="list-style-type: none"> Apply and demonstrate the theoretical concepts of Physics and to develop scientific attitude.

Department of Mathematics
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Third/Fifth

Subject: Mathematics

After successful completion of three year degree program in Mathematics a Student should be able to;

Paper	CO	Outcomes
TY Paper-I 501 Analysis	501.1	Understand the concept of Fourier series
	501.2	Understand the concept of Riemann-Stieltjes integral
	501.3	Understand the concept of Analytics Functions
	501.4	Students learn about Mobius Transformation
TY Paper-II 502 Metric spaces, Complex integration & Algebra	502.1	Students deal with the definition, properties and examples of countable and uncountable sets and understand the metric space
	502.2	Understand the concept of Completeness, Compactness and Connectedness
	502.3	Understand the concept of Ring Analyze and demonstrate examples of ideals and quotient rings
	502.4	Understand the basic concept of Complex Integration Evaluate integrals along a path - directly from the definition and also via the Fundamental Theorem of Contour Integration and Cauchy's Theorem

Department of Zoology
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Third/Fifth

Subject: Zoology

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
T.Y.	501.1	Understand the Enzymes – Distribution and chemical nature of

Paper-I General Mammalian Physiology – I (501)		enzymes, General properties of enzymes, Classification of enzymes, Factors affecting enzyme activity
	501.2	Understand the Structure and functions of digestive glands - (Salivary, Gastric, Intestinal, Liver and Pancreas), Gastrointestinal hormones, Digestion and absorption of proteins, carbohydrates and lipids, Vitamins- Fat soluble and water soluble vitamins; Sources, deficiency and diseases
	501.3	Understand the Respiratory pigments - Types , distribution and properties, Mechanism of Respiration, Transport of O ₂ and CO ₂ , Respiratory disorders and effects of smoking
	501.4	Understand the Composition and functions of blood, Blood clotting – Intrinsic and extrinsic factors, blood groups and Rh factor, Cardiac cycle, E.C.G. and Blood pressure
T.Y. Paper-II Physical Zoology (502)	502.1	Understand Site selection and construction ,Pre stocking and post stocking management of nursery, rearing and stocking ponds, Breeding of fishes by bund and Chinese hatcheries. Induced breeding by hypophysetion. New generation drugs in induced breeding, Brief study of freshwater aquaculture system – Polyculture, cage culture, sewage fed fish culture, integrated fish farming, Fish products and byproducts, Fish preservation
	502.2	Understand the Prawn culture and Pearl culture, Fabrication and setting up of aquarium and its maintenance, Breeding of aquarium fishes – Live bearers and egg layers, Diseases caused by fungi, bacteria, protozoa and helminthes
	502.3	Understand the concept Chemical control : Insecticides - Pyrethroids, carbomate and HCN – mode of action, merits and demerits, Biological control – Biological agents – predators and parasites; merits and demerits, Crop pest: Life cycle, damage and control of Cotton spotted boll worm - <i>Earias vitella</i> ,Stored grain pest- Rice Weevil, <i>Sitophilus oryzae</i> , Animal pest: Life cycle, damage and control of – House fly – <i>Musca nebulosa</i> , Stable fly – <i>Stomoxys calcitrans</i>
	502.4	Understand the Sericulture- Types of Silkworm. Life cycle and rearing of mulberry silkworm, <i>Bombyx mori</i> , Life cycle and rearing of non mulberry silkworm (Tasar), <i>Antheraea mylitta</i> ; Brief idea of cocoon processing for silk fabric - cocoon boiling, reeling, rereeling, winding, doubling, twisting and weaving, Apiculture – Types of honey bees. Life cycle, culture, movable frame hive, bee product and its economic importance, Lac culture – Lac insect, <i>Laccifer lacca</i> - Life cycle, Lac processing, Lac products and Economic Importance
T.Y. Zoology Practical Course	503	<ul style="list-style-type: none"> • Verify theoretical principles experimentally • Interpret the experimental data • Improve analytical skills • Correlate the theory and experiments and understand their importance

Department of Botany
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Third/Fifth

Subject: Botany

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
T.Y. Paper-I Plant physiology, Mineral Nutrition and Hydroponics (501)	501.1	<ul style="list-style-type: none"> • Understand water relation and its significance. • Understand the Osmosis, Diffusion, Osmotic Pressure. • Understand the ascent of sap. • Understand the transpiration, phloem transport and mineral uptake.
	501.2	<ul style="list-style-type: none"> • Understand the photosynthesis process, photosynthetic pigments. • Understand the light and dark reaction of photosynthesis. • Understand the respiration and its mechanism. • Understand the fermentation process.
	501.3	<ul style="list-style-type: none"> • Understand the nitrogen fixation by symbiotic and Non-Symbiotic mechanism. • Study the pant movements and photoperiodism. • Study the circadian rhythms and Biological Clock.
	501.4	<ul style="list-style-type: none"> • Understand the mineral nutrition, source and types. • Study the role and deficiency symptoms Macronutrients and Micronutrients. • Study the hydroponics, advantages and disadvantages of hydroponics.
T.Y. Paper-II Plant Ecology and Organic Farming (502)	502.1	<ul style="list-style-type: none"> • Understand the concept of Ecology. • Study the climatic, Edaphic and Physiographic factors.
	502.2	<ul style="list-style-type: none"> • Study the ecosystem, components of Ecosystem. • Understand the food chain, food web and ecological pyramids. • Study the Autecology and Synecology.
	502.3	<ul style="list-style-type: none"> • Understand the process of succession. • Study the plant adaptations. • Study the Biogeochemical cycles.
	502.4	<ul style="list-style-type: none"> • Develop the skills of organic farming. • Understand the methods of recycling of biodegradable kitchen, agriculture and industrial waste. • Study to prepare organic manure.
T.Y. Botany Practical Course	503	<ul style="list-style-type: none"> • Determining the Frequency, Density, and Abundance of community by Quadrature Method. • Determining the homogeneity of vegetation by Raunkier's frequency. • Study the frequency of herbaceous species in grassland to compare the frequency distribution with Raunkier's standard frequency diagram. • Study the soil profile of different locations near by area. • Study the salinity of different water samples.

SEMESTER VI
Department of Chemistry
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Third/Sixth

Subject: Chemistry

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
T.Y. Paper-I Inorganic Chemistry (601)	601.1	<ul style="list-style-type: none">• Understand Metal ligand bonding in Transition Metal complexes.• Electronic spectra of Transition Metal Complexes.
	601.2	<ul style="list-style-type: none">• Understand Magnetic Properties of Transition metal Complexes.• To study thermodynamic and kinetic aspect of metal complexes.
	601.3	<ul style="list-style-type: none">• Understand organometallic chemistry.• Understand properties and structure of metal carbonyls.
	601.4	<ul style="list-style-type: none">• To study Bio-organic chemistry• Understand the concept of s Hard and Soft acids and bases.
T.Y. Paper-II Organic Chemistry (602)	602.1	<ul style="list-style-type: none">• Understand NMR Spectroscopy
	602.2	<ul style="list-style-type: none">• Understand Organic Synthesis via Enolates.• Carbohydrates: classification, reaction and mechanisms.
	602.3	<ul style="list-style-type: none">• Understand Amino acids, peptides and nucleic acids.• To study Fats, oil and detergents.
	602.4	<ul style="list-style-type: none">• Understand synthetic dyes, synthetic drugs, synthetic polymer.
T.Y. Chemistry Practical Course	603	<ul style="list-style-type: none">• Verify theoretical principles experimentally• Interpret the experimental data• Improve analytical skills• Correlate the theory and experiments and understand their importance

Department of Physics
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Third/Sixth

Subject: Physics

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
Paper 1: Relativity, Nuclear Physics and Bio Physics (601)	601.1	<ul style="list-style-type: none"> Understand the postulates of the special theory of relativity. Apply the concept of relativity to explain Length contraction, Time dilation, Velocity addition theorem, Variation of mass with velocity, Mass energy equivalence.
	601.2	<ul style="list-style-type: none"> Understand the concept of nuclear physics.
	601.3	<ul style="list-style-type: none"> Apply the concept of nuclear physics to explain various decay processes.
	601.4	<ul style="list-style-type: none"> Understand the Principle, Construction and working of different bio instruments.
Paper 2: Electronics, Fiber Optics, Communication and Digital Electronics (602)	602.1	<ul style="list-style-type: none"> Understand the operations and applications of operational amplifiers.
	602.2	<ul style="list-style-type: none"> Understand the various basic structures of optical fibers and basic concept involved in propagation of light waves through optical fiber.
	602.3	<ul style="list-style-type: none"> Understand the concept of amplitude modulation and frequency modulation.
	602.4	<ul style="list-style-type: none"> Understand various number systems. Construct the truth tables for various logic gates. Verify De Morgan's theorem
Physics Practical (603)	603	<ul style="list-style-type: none"> Apply and demonstrate the theoretical concepts of Physics and to develop scientific attitude.

Department of Mathematics
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Third/Sixth

Subject: Mathematics

After successful completion of three-year degree program in Mathematics Students should be able to;

Paper	CO	Outcomes
TY Paper-I 601 Abstract Algebra	601.1	Understand the concept of Group Automorphism
	601.2	Understand definition and examples of vector spaces
	601.3	Learn about algebra of linear transformation
	601.4	Find range, rank, kernel and nullity of matrix and also study about Inner product spaces
TY Paper-II 602 Special Theory of Relativity	602.1	Study the Newtonian Mechanics and understand the concept special theory of relativity
	602.2	Learn the Lorentz transformation and consequences
	602.3	Understand the concept of Tensors and Space –Time structure

	602.4	Study the Mass Energy Equivalence, Energy momentum Tensor and Maxwell's Equation of Electromagnetic theory in Vacuum
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Course Name: B. Sc.

Year/Semester: Third/Sixth

Subject: Zoology

After the successful completion of the course students will be able to-

Paper	CO	Outcomess
T.Y. Paper-I General Mammalian Physiology - II (601)	601.1	Understand the Types of neurons, E.M. structure of neuron, Conduction of nerve impulse, Ultrastructure of striated muscle, Sliding filament theory of muscle contraction, Properties of muscles (Twitch, Tetanus, Tonus, Summation, All or None Principle, Muscle fatigue)
	601.2	Understand Structure of uriniferous tubule, Mechanism of urine formation, Counter – current mechanism, Normal and abnormal constituents of urine; Elementary idea of dialysis
	601.3	Understand the Structure and functions of pituitary gland, Structure and functions of thyroid and parathyroid gland, Structure and functions of adrenal gland, Structure and functions of pineal gland
	601.4	Understand the Oestrous and menstrual cycle, Male and female sex hormones, Causes of infertility in male and female, Contraceptives – Mechanical and hormonal ; <i>In-vitro</i> fertilization
T.Y. Paper-II Applied Zoology –II (Biotechniques, Microtechnique, Biotechnology, Bioinformatics and Biostatistics) (602)	602.1	Understand the Concepts of sterilization: Filtration, autoclaving, dry heat sterilization, wet sterilization and radiation, Separation of biomolecules: Centrifugation (Sedimentation, density gradient); Chromatography (Elementary idea of thin layer, gel filtration and ion exchange - Principles and applications), Electrophoresis: Agarose gel electrophoresis, SDS-PAGE, Principles of colorimeter and spectrophotometers
	602.2	Understand the concept of Fixation, dehydration, clearing, embedding & section cutting, Difficulties encountered during section cutting (causes and remedies), Double staining with Haematoxylin and Eosin, Histochemical staining techniques for carbohydrates (Periodic acid schiff), proteins (Mercury-bromophenol blue) and lipids (Sudan black-B)
	602.3	Understand the Basic concepts in recombinant DNA technology, Gene isolation method- Shotgun cloning, Isolation of gene- DNA manipulation enzymes: Nucleases, ligases, polymerases, Basic concepts of cloning vectors and splicing : Insertion of DNA and ligation using blunt ends, cohesive ends, Cloning vectors, Application of biotechnology: Insulin and vaccine production
	602.4	Understand the Bioinformatics: Definition, Basic concepts in bioinformatics, importance and role of bioinformatics in life sciences, Bioinformatics databases- introduction, types of databases, Nucleotide sequence databases, Elementary idea of protein databases, Biostatistics – Tabulation of data,

		presentation of data, sampling errors, mean, mode, median, probability, standard error and standard deviation
T.Y. Zoology Practical Course	603	<ul style="list-style-type: none"> • Verify theoretical principles experimentally • Interpret the experimental data • Improve analytical skills • Correlate the theory and experiments and understand their importance

Department of Botany
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Third/Sixth

Subject: Botany

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
Biochemistry, biotechnology And herbal technology Paper-I (601)	601.1	<ul style="list-style-type: none"> • Study the lipids, role of fatty acids, oils and waxes. • Study the enzymes its classification and nomenclature. • Study the basic concepts of Enzymology. • Study the enzyme inhibitors.
	601.2	<ul style="list-style-type: none"> • Study the tissue culture techniques. • Study the process of sterilization. • Study the preparation of culture media..
	601.3	<ul style="list-style-type: none"> • Understand the techniques of genetic engineering. • Study the process of DNA library. • Study the types of DNA library. • Study the Agrobacteria mediated gene transfer.
	601.4	<ul style="list-style-type: none"> • Develop the skills of herbal technology. • Study the methods of Cultivation, Harvesting, • Understand the technique of dye yielding of herbal plants. • Study the used of herbs in cosmetics.
T.Y. Paper-II Phytogeography, Utilization of Plants, Techniques and Pharmacognosy (602)	602.1	<ul style="list-style-type: none"> • Study the phytogeography, climatic regions of India. • Study the Environmental pollution. • Study the Renewable and Non Renewable sources. • Understand the conservation strategies.
	602.2	<ul style="list-style-type: none"> • Study the morphology, utilization and important chemicals constituents of the plants. • Understand the concept of Ethnobotany.
	602.3	<ul style="list-style-type: none"> • Study the principle, types and application of microscope. • Study the various techniques.
	602.4	<ul style="list-style-type: none"> • Understand synthetic dyes, synthetic drugs,

		<p>synthetic polymer.</p> <ul style="list-style-type: none"> • Study the pharmacological plants
T.Y. Botany Practical Course	603	<ul style="list-style-type: none"> • Find out the level of noise pollution of different nearby area with the help of decimeter and compare it with tolerance limit • Study the morphology, utilization, and important chemical constituents of plants. • Study the Ethnobotanical importance of plants. • Study the different adulterants used with reference to drug adultration.

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Principal

Bhiwapur Mahavidyalaya
 Bhiwapur, Dist.-Nagpur



Backward Class Youth Relief Committee's

Bhiwapur Mahavidyalaya, Bhiwapur

Dist - Nagpur, Maharashtra 441201

Criteria- 2

Teaching- Learning and Evaluation

2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website.

Academic Session 2021-22



Programme Outcomes
Course Outcomes

Academic Session 2021-2022

**Faculty of Bachelor of Arts,
Bachelor of Commerce & Bachelor
of Science**

Bhiwapur Mahavidyalaya, Bhiwapur
Course Outcomes and Programme Outcomes
Index
Bachelor of Arts

Session	Course	Semester	Sr. No.	Subject
2021-2022	B. A	First	1	English
			2	Marathi
			3	Political Science
			4	Economics
			5	English Literature
			6	Sociology
			7	History
			8	Marathi Literature
			9	Ambedkar Thought
		Second	10	English
			11	Marathi
			12	Political Science
			13	Economics
			14	English Literature
			15	Sociology
			16	History
			17	Marathi Literature
			18	Ambedkar Thought
		Third	19	English
			20	Marathi
			21	Political Science
			22	Economics
			23	English Literature
			24	Sociology
			25	History
			26	Marathi Literature
			27	Ambedkar Thought
		Fourth	28	English
			29	Marathi
			30	Political Science
			31	Economics
			32	English Literature
			33	Sociology
				34
		35		Marathi Literature
		36		Ambedkar Thought
		Fifth	37	English
			38	Marathi
			39	Political Science

			40	Economics
			41	English Literature
			42	Sociology
			43	History
			44	Marathi Literature
			45	Ambedkar Thought
		Sixth	46	English
			47	Marathi
			48	Political Science
			49	Economics
			50	English Literature
			51	Sociology
			52	History
			53	Marathi Literature
			54	Ambedkar Thought

Bachelor of Commerce

Session	Course	Semester	Sr. No.	Subject
2021-2022	B. Com	First	1	English
			2	Marathi
			3	Financial Accounting- I
			4	Business Organization
			5	Company Law
			6	Business Economics- I
		Second	7	English
			8	Marathi
			9	Statistics and Business Mathematics
			10	Business Management
			11	Secretarial Practice
			12	Business Economics- II
		Third	13	English
			14	Marathi
			15	Financial Accounting- II
			16	Business Communication and Management
			17	Business Law
			18	Monetary Economics-I
		Fourth	19	English
			20	Marathi
			21	Financial Accounting-III
			22	Skill Development
			23	Income Tax
			24	Monetary Economics-II

		Fifth	25	Financial Accounting-IV
			26	Cost Accounting
			27	Management Process
			28	Indian Economics-I
			29	Computerized Accounting
			30	Auditing
		Sixth	31	Financial Accounting-V
			32	Management Accounting
			33	Advanced Statistics
			34	Indirect Economics-II
			35	Human Resource Management
			36	Industrial Law

Bachelor of Science
(Physics, Chemistry, Mathematics, Zoology and Botany)

Session	Course	Semester	Sr. No.	Subject
2021-2022	B.Sc.	First	1	English
			2	Marathi
			3	Chemistry I & II
			4	Physics I & II
			5	Mathematics I & II
			6	Zoology I & II
			7	Botany I & II
		Second	8	English
			9	Marathi
			10	Chemistry I & II
			11	Physics I & II
			12	Mathematics I & II
			13	Zoology I & II
			14	Botany I & II
		Third	15	Chemistry I & II
			16	Physics I & II
			17	Mathematics I & II
			18	Zoology I & II
		Fourth	19	Botany I & II
			20	Chemistry I & II
			21	Physics I & II
			22	Mathematics I & II
			23	Zoology I & II
			24	Botany I & II
		Fifth	25	Chemistry I & II

			26	Physics I & II
			27	Mathematics I & II
			28	Zoology I & II
			29	Botany I & II
		Sixth	30	Chemistry I & II
			31	Physics I & II
			32	Mathematics I & II
			33	Zoology I & II
			34	Botany I & II

Bachelor of Arts

Semester – I

Department of English Compulsory English

Course Objectives

- To develop interest in the English language through interesting lessons.
- To understand the lives of successful entrepreneurs through life sketches.
- To understand and apply rules of grammar with the help of the prescribed grammar syllabus.
- To motivate themselves by reading and understanding the lives of great personalities.

Course Outcomes

- Developed interest in English language through interesting lessons.
- Understood the lives of successful entrepreneurs through life sketches.
- Appreciated poetry through prescribed poems.
- Applied rules of grammar with the help of prescribed grammar syllabus.
- Motivated themselves by reading and understanding the lives of great personalities.

Department of Marathi Course Objectives and Course Outcomes Compulsory Marathi ;साहित्यरंग भाग-1

Unit I:

प्रकरण –1.उद्दिष्ट– 'पाखाला बाळक पांगुरवणे' या लीळतील मराठी भाषेची ओळख व जाणीव विद्यार्थ्यांना करणे देणे.

साध्य– विद्यार्थ्यांना लीळाचरित्रातील गद्य मराठी भाषेची ओळख व माहिती मिळाली.

प्रकरण –2.उद्दिष्ट– शिक्षण पाठातून महात्मा फुले यांनी भारतातील शिक्षणाच्या केलेल्या पुरस्काराची माहिती देणे

साध्य–भारतातील बहुजनसमाजाच्या शिक्षणाची महात्मा फुलेंनी सांगितलेली उद्दीष्टे क"ी महत्वाची व उपयोगी आहेत याचे मर्म विद्यार्थ्यांना कळून आले.

प्रकरण –3.उद्दिष्ट–स्वामी विवेकानंदानी सांगितलेल्या व्यक्तिमत्व विकासाविषयी विद्यार्थ्यांना बोध करणे

साध्य–सामर्थ्य हेच जीवन व दुर्बलता हाच मृत्यु यास्वामी विवेकानंदानी युवकांसाठी केलेले मार्गदर्शनाची जाणीव विद्यार्थ्यांना झाली.

प्रकरण –4.उद्दिष्ट–राष्ट्रसंत तुकडोजी महाराज यांनी सांगितलेल्या सृष्टीच्या कायदयाची व परिवर्तनाची माहिती

विद्यार्थ्यांना देणे.

साध्य—'बदला किंवा मरा' हा सृष्टीचाकायदा आहे व परिवर्तन हे जीवंतपणाचे लक्षण आहे याची साक्ष विद्यार्थ्यांना पटली.

प्रकरण —5.उद्दिष्ट—कोंकराची कथेतून गोखलेंनी लष्करातून पळून आलेल्या विठ्ठलरावच्या जीवनाचे चित्रण करणे.

साध्य—लष्करी पेगातील कडक विस्तारीची माहिती विठ्ठलरावच्या व्यक्तिमत्वातून विद्यार्थ्यांना झाली.

Unit II:

कविता— 1.उद्दिष्ट—मुकुंदराजानी माय मराठी भाषेचे सांगितलेली महत्त्व व वैशिष्ट्यांची ओळखविद्यार्थ्यांना करुण देणे
साध्य—माय मराठी कवितेतून मराठी भाषेचे महत्त्व व मराठीची वैशिष्ट्ये विद्यार्थ्यांना समजून आली.

कविता—2. उद्दिष्ट— संत ज्ञानेश्वरांनी सांगितलेल्या अभंगातून विरहीणीचे महत्त्व विद्यार्थ्यांना पटवून देणे.

साध्य— घनु वाजे घुणघुणा व पैल तो गे कारु कोकताहे या अभंगातून भक्ताची भगवंतांणी एकरूप होण्याची ओढ व तळमळीची जाणीव विद्यार्थ्यांना झाली.

कविता— 3.उद्दिष्ट—दंवाचे थेंब कवितेतून केवसुतांनी रेखाटलेल्या निसर्गातील घटनांचे वर्णन विद्यार्थ्यांना करुन सांगणे.

साध्य— आई व मुलगा यांच्यातील संवादातून निसर्गातील विभिन्न घटनांविषयीचे कुतूहल याची माहिती विद्यार्थ्यांना झाली.

कविता— 4.उद्दिष्ट—भंगू दे काठिन्य माझे कवितेतून परमेश्वरांणी जवळीक साधण्याची कविच्या ईच्छेची विद्यार्थ्यांना जाणीव करुन देणे.

साध्य—बा. सी. मर्ढेकरांनी परमेश्वरांणी जवळीक साधण्यासाठी स्वतःच्या मर्यादा व उणिवांतून मुक्त होण्यासाठी परमेश्वरांणी घातलेल्या संवादाची माहिती विद्यार्थ्यांना मिळाली

कविता— 5.उद्दिष्ट—चार शब्द कवितेतून कविने व्यक्त केलेल्या अपेक्षित परिवर्तनाची जाणीव विद्यार्थ्यांना करुन देणे.

साध्य—नारायण सुर्वे यांनी कष्टकरी, कामकरींच्या स्वाभीमानातून परिवर्तन घडून येईल याची माहिती विद्यार्थ्यांना मिळाली.

Unit III:

प्रकरण — 1.उद्दिष्ट— व्यावहारिक मराठीची आवयकता जीवन व्यवहारासाठी का आहे याची यथार्थता विद्यार्थ्यांना पटविणे.

साध्य—जीवन व्यवहारात व्यावहारिक मराठीची उपयुक्तता असल्याचे विद्यार्थ्यांना कळले तसेच अनेक व्यवहार क्षेत्रात व्यावहारिक मराठीची उपयुक्तता असल्याचे स्पष्ट झाले.

प्रकरण — 2.उद्दिष्ट—भाषिक संवाद व्यवहाराच्या मूलतत्वांची ओळख व माहिती विद्यार्थ्यांना करुन देणे.

साध्य—भाषा हे संवादाचे माध्यम असून लेखन, वाचन, श्रवण व भाषण यातून भाषेचा संवाद व्यवहार चालतो हे कळले सोबतच भाषिक संवाद व्यवहाराच्या विविध मुलतत्वांची ओळख विद्यार्थ्यांना झाली.

Department of Political Science Course Objectives and Course Outcomes

Course Objectives

The Students will able;

- To understand the basic concept and ideological orientations of political science discipline.
- To understand the processes and dynamics of Indian government and politics
- To understand the contribution of the main traditions of Indian Political Thought.
- To understand the contribution of the main traditions of Western Political Thinkers to Political Thought

Course Outcomes

- familiarized with the basic concepts and ideological orientations of political science discipline.
- Exposed to the processes and dynamics of Indian government and politics
- Made to understand the contribution of the main traditions of Indian Political Thought.
- Made to understand the contribution of the main traditions of Western Political thinkers to political thought.

Department of Economics

Course Objectives and Course Outcomes

Unit – I

- Objective - To develop preliminary knowledge of Economic concepts for the understanding of Economics Nature, Definition, and Method of Economics Analysis.
- Outcome – Students learned preliminary knowledge of Economic concepts and definitions.

Unit – II

- Objective - To provide an orderly and objective way of thinking about Economic Demand & Supply Theory.
- Outcome- The students learned about the knowledge of Demand and Supply.

Unit – III

- Objective- To gain knowledge about Consumer Behavior Utility Analysis.
- Outcome- The Students gained the knowledge of Consumer Behavior and Utility Analysis

Unit – IV

- Objective –To explain core Economics- various factors of production.
- Outcome - Students learnt about the production function.

Department of English

Course Objectives and Course Outcomes

English Literature

Course Objectives

- To understand familiar with characteristic literary texts within a given historical, geographical, and socio- cultural context.
- To apply analytical skills to literary and cultural texts of multiple genres.
- To identify, and describe the values, and themes present in the prescribed text.
- To identify ideas, values, and themes which had made an impact on the socio-cultural ethos of the society in the past and in the contemporary society.

Course Outcomes

- Students should be familiar with characteristic literary texts within a given historical, geographical, and socio-cultural context.
- Students should be able to apply analytical skills to literary and cultural texts of multiple genres.
- Students should be able to identify, and describe the values, and themes present in the prescribed text.
- Students should be able to identify ideas, values, and themes which had made an impact on the socio-cultural ethos of the society in the past and in the contemporary society.

Department of Sociology

Course Objectives and Course Outcomes

Introduction

Unit - I Understanding Sociology

Objective - To make students know in detail about Understanding Sociology.

Outcome - Students understood the concept of Understanding Sociology.

Unit – II Basic Concepts in Sociology

Objective - To Make Students Aware of Basic Concepts in Sociology.

Outcome - Students understood the concept of Basic Concepts in Sociology.

Unit - III Socialization

Objective - To Make Students Aware of Socialization.

Outcome - Students understood the concept of Socialization.

Unit – IV Social Structure

Objective - To make the students know in detail about Social Structure.

Outcome - Student understood the concept of Social Structure.

Department of History

Course Objectives and Course Outcomes

After successful completion of three-year Degree Programme in History a student should be able to know;

Programme Outcomes

- PO1: History has an unprecedented significance in human life.
- PO2: The study of history preserves culture.
- PO3: The study of history leads to Socio-Political awareness.
- PO4: Learn about world events.
- PO5: The study of History is important for competitive examination.
- PO6: Conversational skills come and understand the importance of human society.

Course Objectives

- To know the importance of culture gives you the ability to make decisions in yourself.
- To gain the ability to make decisions while living life.
- To gain employment opportunities through competitive examinations.
- To acquire moral values, devotional movement and Sufi sect.

Course Outcomes

- Knew the importance of culture gives you the ability to make decisions in yourself
- Gained the ability to make decisions while living life
- Received employment opportunities through competitive examinations.
Acquired moral values, devotional movement and Sufi sect

Department of Marathi

Course Objectives and Course Outcomes

Marathi Literature

Unit I: माझी जन्मठेप- वि.दा. सावरकर (आत्मचरित्र)-

उद्दिष्ट- स्वातंत्र्यविर वि.दा. सावरकर यांची भारतीय स्वातंत्र्यातील भूमिका व सावरकरांचे व्यक्तिमत्व समजावून सांगणे.
साध्य- स्वातंत्र्यविर सावरकरांची स्वातंत्र्यप्रेरीत भूमिका व योंगदान तसेच त्यांचे व्यक्तिमत्व याची सत्यता विद्यार्थ्यांना समजली.

Unit II:

प्रतिभा साधन- ना.सी. फडके

उद्दिष्ट- साहित्याची अभिरुची व साहित्याची निर्मितीची ओळख व माहिती विद्यार्थ्यांना देणे.
साध्य-साहित्य प्रकार, अभिरुची व निर्मिती व रसास्वाद याबद्दल विद्यार्थ्यांना माहिती झाली.

Semester-II

Department of English

Course Objectives and Course Outcomes

Compulsory English

Course Objectives

- To study lessons based on the themes of humor, emotional bonding, ethics and values.
- To motivate themselves even in adverse situations by reading successful people's life sketches.
- To prioritize life's needs over wants.
- To apply grammar lessons to spoken English.
- Grasp the nuances of learning a foreign language.

Course Outcomes

- Studied lessons based on the themes of humor, emotional bonding, ethics and values.
- Motivated themselves even in adverse situations through reading their lives.

- Applied grammar lessons to spoken English.

Department of Marathi
Course Objectives and Course Outcomes
Compulsory Marathi (साहित्यरंग.भाग-1)

Unit I:

प्रकरण – 6.उद्दिष्ट-भारतीय लोक”ाहीचे भवितव्य काय? या पाठाच्या आधारे लोक”ाहीची माहिती करुन देणे.

साध्य- डॉ. बाबासाहेब आंबेडकर यांनी भारतीय लोक”ाही आणि जातीव्यवस्थेसंबंधी बहाल केलेल्या विचारांची विद्यार्थ्यांना ओळख पटली व माहिती मिळाली.

प्रकरण – 7.उद्दिष्ट- गाडगेबाबांनी लेखिकेला दाखविलेल्या शाळेचा मार्ग व ज्ञानाचा प्रका”ाची रुजवणूक करणे.

साध्य-सीमा साखरेचे व्यक्तिमत्व घडण्यासाठी कर्मयोगी गाडगेबाबांनी दाखविलेला शाळेचा मार्ग व ज्ञानाचा प्रका”ा कसा उपयुक्त ठरला याची महती विद्यार्थ्यांना पटली.

प्रकरण – 8.उद्दिष्ट-भारतरत्न अटलबिहारी वाजपेयी यांच्या व्यक्तिमत्त्वाची ओळख विद्यार्थ्यांना करुन देणे.

साध्य-अजात”ात्रू अटलजी यांच्या आगळ्या वेगळ्या व्यक्तिचित्रणाची शरद पवार यांनी करुन दिलेली ओळख माहिती विद्यार्थ्यांना झाली.

प्रकरण –9.उद्दिष्ट-जात चोरीच्या आपत्तीमुळे कोणते संकटे येतात याची जाणीव विद्यार्थ्यांना करुन देणे.

साध्य-बाबुराव बागुल यांनी आपली अस्पृश्य महार ही जात लपविल्यामुळे त्यांना आलेला अनुभवाचे वर्णन विद्यार्थ्यांना समजून आले.

प्रकरण –10.उद्दिष्ट- पुर्णिया या बिहार राज्यातील मागसलेल्या जिल्हयातील लोकांच्या दुःखी कष्टी जीवनाची माहिती विद्यार्थ्यांना देणे.

साध्य- अनिल अवचट यांनी पूर्णियामधून रेखाटलेले सियांचे बदिस्त जीवन, शाळा, नोक-यांचा प्र”न, राजकीय परिस्थिती, मजूरांचे हलाकीचे जीवन, उपासमारी इ.ची माहिती विद्यार्थ्यांना मिळाली.

Unit II:

कविता- 6.उद्दिष्ट-मुक्त पक्षी या कवितेतू पिंजऱ्यातील पक्षी स्वातंत्र का नाकारतो याचीमाहिती देणे.

साध्य- गुलामीची सवय जडल्यामुळे पक्षी पिंजऱ्यातून मुक्त केल्यावरही स्वातंत्र नाकारतो याची ज्ञान विद्यार्थ्यांना प्राप्त झाले.

कविता –7.उद्दिष्ट- जीवन मरणाबध्दल बहिणाबाईंनी केलेल्या चिंतनाची सार्थकता पटवून देणे.

साध्य- जन्ममृत्यु विषयी कवयित्रीने कवितेत प्रगट केलेले विचार मानवी जीवनाची सार्थकता पटवून देतात याची विद्यार्थ्यांना खात्री पटली.

कविता- 8.उद्दिष्ट-राष्ट्रसंतांना गरीबाच्या झोपडीमधील सुखाची माहिती विद्यार्थ्यांना देणे

साध्य- महालातील सुखापेक्षा लहानषा झोपडीतील सुख हे महान असल्याची प्रचिती कवितेच्या भावार्थावरून विद्यार्थ्यांना आली.

कविता- 9.उद्दिष्ट-माणसाच्या मनातील मोठेपना नाहिसा होण्याची कविची इष्वराकडे केलेली मागणीचे ज्ञान विद्यार्थ्यांना देणे.

साध्य-कविने आपल्या जीभेवरचा लोभ जळू देण्यासाठी व मी पणाचे साम्राज्य नाहीसे होण्याची कविची भावना विद्यार्थ्यांना समजली.

कविता- 10.उद्दिष्ट-कुसुमाग्रजांच्या कवितेतून मानवी सामर्थ्य निसर्गावर कसे मात करते याची ओळख विद्यार्थ्यांना करुन देणे.

साध्य-कवितेतील नायकाचा गंगा नदीच्या पुरामुळे संसार उध्वस्त होऊनही सराच्या आर्षिवादाची थाप मागणारा नायक प्रतिकूल परिस्थितीवर मात करुन संसार उभा करतो याची विद्यार्थ्यांना प्रेरणा मिळाली.

Unit III:

प्रकरण – 3.उद्दिष्ट– पत्रलेखनाचे स्वरूप, पत्राचे प्रकार, पत्रलेखाचे घटक, वैशिष्ट्ये व पत्राचा नमूना विद्यार्थ्यांना समजावून देणे.

साध्य– विद्यार्थ्यांना पत्राचे रूप कसे असते ,घटक कोणते, खजगी पत्रे व कार्यालयीन पत्रे कधी लिहावीत याचे कौशल्य व ज्ञान प्राप्त झाले.

प्रकरण – 4.उद्दिष्ट–सारांषलेखन कसे करावे व सारांष लेखन करतांना कोणती काळजी घ्यावी व सारांषलेखनाचे फायदे याविषयी विद्यार्थ्यांना माहिती देणे.

साध्य– विद्यार्थ्यांना सारांषलेखन करण्याची माहिती मिळाली तसेच दिलेल्या सारांषाचे एक तृतीयांष लेखन करण्याचे कौशल्य प्राप्त होऊन सारांषलेखनाचे फायदे समजले.

Department of Political Science Course Objectives and Course Outcomes

Course objectives

- To understand the processes and dynamics of the Indian government and politics.
- To understand the contribution of the main traditions of Indian Political Thought.
- To understand the contribution of the main traditions of Western Political Thinkers to Political Thought.

Course Outcomes

- Familiarized with the basic concepts and ideological orientations of the Political Science discipline.
- Exposed to the processes and dynamics of Indian government and politics.
- Made to understand the contribution of the main traditions of Indian Political Thought.
- Made to understand the contribution of the main traditions of Western Political thinkers to Political thought.

Department of Economics Course Objectives and Course Outcomes Micro Economics Theory -II

Unit – I: Cost and Revenue Analysis Cost of Production:

Objective- TO explain the Kinds of Cost and Revenue Analysis Cost of Production

Outcome –Explained theknowledge of Cost and Revenue Analysis.

Unit – II: Market Structure and Perfect Competition Market

Objective- To explain major types of market Structure and Identify Characteristics of Perfect Competition.

Outcome –Received assignments from the students those are coherent, organized, concise, grammatically correct and well-presented.

Unit – III: Monopoly and Imperfect Competition Market

Objective- To identify and discuss the key concepts of Monopoly and Imperfect Competition Market.

Outcome –Identified economic theory in the Monopoly and Imperfect Competition
Unit – IV: Factors Pricing and Statistics for Economics Factors Pricing:

Objective- To explain the contribution of Factors of production.

Outcome – Students learned about the factor of production.

English Literature

Course Outcomes

CO6 - Students will be familiar with literary texts in a given historical, geographical and cultural context

CO7- Students should be able to apply critical theories to the reading of multiple genres of literature

CO8- Students should be able to identify, and analyze the critical ideas and themes

CO9- Students should be able to write analytically with the help of language competencies

CO10- Students should be able to imbibe, ethical, moral, and cultural values

Department of Sociology

Course Objectives and Course Outcomes

Themes and Perspectives

Themes and Perspectives

Unit - I Culture and Society

Objective - To Make the students know in detail about culture and society

Outcome - Students understood the concept of culture and society.

Unit - II Social Deviation and Social Control

Objective – To make the students aware of social deviation and social control.

Outcome – Students understood the concept of social deviation and social control.

Unit - III Social Stratification and Social Mobility

Objective - To Make Students know in detail about Social Stratification and Social Mobility.

Outcome – Students understood in detail about Social Stratification and Social Mobility.

Unit - IV Concept of Gender

Objective - To make students aware of concept of gender.

Outcome - Student understood the concept of concept of gender.

Department of History

Course Objectives and Course Outcomes

1) How Mughal power was established in India.

2) How was the administration of Sher shah Suri

3) Mughal carpet administration

4) Information about Chhatrapati Shivaji and Mughal relationship

5) Why and why Panipat III

Course Objectives

- To understand how the Mughal power was established in India.
- To learn information about Sher Shah Suri and the Mughal administration.
- To get information about Chhatrapati Shivaji and Mughal relationship war took place.
- To understand the Panipat Third War and the arrival of the British.

Course Outcomes

- Understood how the Mughal power was established in India.
- Learned information about Sher Shah Suri and the Mughal administration.
- Student got information about Chhatrapati Shivaji and Mughal relationship war took place.
- Understood the Panipat Third War and the arrival of the British.

Department of Marathi Marathi Literature Course Objectives and Course Outcomes

Unit I:

नटसम्राट-वि. वा. शिरवाडकर (नाटक)-

उद्दिष्ट- नटसम्राट या नाटकातून मानवी जीवनातील कौटुंबिक, सामाजिक व नटसम्राट अप्पासाहेब बेलवणकर यांचे संघर्षप्रवण जीवनाची माहिती विद्यार्थ्यांना देणे.

साध्य- वि. वा. शिरवाडकरांनी नटसम्राट नाटकात रेखाटलेल्या अप्पासाहेब बेलवणकरांच्या व्यक्तिमत्त्वाच्या आधारे मानवी जीवनाची 'भौतिक' विद्यार्थ्यांना कळली.

Unit II:

साहित्यप्रकार-कादंबरी, चरित्र, आत्मचरित्र.

उद्दिष्ट- कादंबरी, चरित्र, आत्मचरित्र या साहित्य प्रकाराची ओळख व माहिती विद्यार्थ्यांना देणे.

साध्य- कादंबरी, चरित्र, आत्मचरित्र या साहित्य प्रकाराची ओळख व माहिती विद्यार्थ्यांना झाली..

B.A. Part -II Semester-III

Course Objectives and Course Outcomes

Department of English Compulsory English

Unit I: Objective- Making students aware of the importance of Honesty.

Outcome- Students tried to examine and applied through the various activities carried out in the class.

Unit II: Objective- Making students realize the beauties of nature and sublime.

Outcome- Students tried to apply the values of nature and the sublime.

Unit III: Objective- Making students understand the social evils of society and the values of Humanity.

Outcome-Students were exposed to the social evils of society through discussion.

Unit IV: Objective-Grammatically correct usage of Narration and Punctuation.

Outcome-Students solved the examples of Narration and Punctuation.

Unit V: Objective-To create the ability to use English for the purpose of communication.

Outcome-Students attempted to use English for the purpose of communication in the Class.

Department of Marathi
Course Objectives and Course Outcomes
Compulsory Marathi
साहित्य संवाद.भाग.2

Unit I:

प्रकरण –1.उद्दिष्ट– तेराव्या शतकातील दृष्टांतपाठातील गद्य भाषाशैली, श्रीचक्रधरस्वामीचे चरित्र, महानूभाव पंथा विषयी माहिती देणे.

साध्य– दृष्टांतपाठातील गद्य भाषाशैली, श्रीचक्रधरस्वामीचे चरित्र, महानूभाव पंथाचे समाजाला दिलेले योगदान विद्यार्थ्यांना समजून आले.

प्रकरण –2.उद्दिष्ट–स्त्री पुरुष तुलना या पाठातून ताराबाई शिंदे हीने पारतंत्र्यांच्या काळात स्त्रियांच्या नषिबी येणाऱ्या दुर्गुणांची जाणीव करून देणे.

साध्य– सर्व प्रकारचे दुर्गुण स्त्रियांतच असतात या पुरुषांच्या पूर्वग्रहदूषित विचारांची विद्यार्थ्यांना माहिती प्राप्त झाली.

प्रकरण –3.उद्दिष्ट–यषस्वी वक्ता होण्यासाठी प्र.के.अत्रे यांनी सांगितलेला अनुभव विद्यार्थ्यांना सांगणे.

साध्य– विद्यार्थ्यांनी यषस्वी वक्ता होण्यासाठी अ०यांच्या अनुभवाचा बोध घेतला.

प्रकरण –4.उद्दिष्ट–पंढरपूर व विठ्ठलाचे दर्पनाची माहिती विद्यार्थ्यांना करून देणे.

साध्य – पंढरपूर व पांडुरंगाचे संपूर्ण वर्णन तेथील भौगोलिक परिस्थितीची माहिती विद्यार्थ्यांना प्राप्त झाली.

प्रकरण –5.उद्दिष्ट–राष्ट्रसंताच्या मते शिक्षक हाच राष्ट्राचा भाग्यविधाता असल्याची खात्री विद्यार्थ्यांना करून देणे.

साध्य– शिक्षकाचे विद्यार्थी, समाजाप्रती केलेल्या संपूर्ण कार्याची व शैक्षणिक कार्याची जाणीव विद्यार्थ्यांना कळली.

Unit II:

कविता–1.उद्दिष्ट–संत नामदेवांनी श्रीविठ्ठलाचे वर्णन, विठ्ठलभक्तितेचे व नामस्मरणाचेमहात्म्य विद्यार्थ्यांना सांगणे.

साध्य–अभंगाच्या निपनातून विठ्ठलाच्या अनंत लावण्याची षोभा, विठ्ठलभक्तितेचे व नामस्मरणाचे महात्म्य विद्यार्थ्यांना कळले.

कविता–2.उद्दिष्ट– मारोपंतानी सत्संगतीचा वर्णन केलेला महिमा सांगणे.

साध्य– सत्संगतीत समाजजिवनाला उद्बोधन करण्याचे सामर्थ्य आहे याची विद्यार्थ्यांना माहिती मिळाली.

कविता–3.उद्दिष्ट–भला जन्म हा तुला लाभला यातून राम जोषींनी सांगितलेल्या मानवी जीवनाचे सार्थकत्व पटविणे.

साध्य– उपदेशपर लावणीतून मानवी जीवनाची सार्थकता विद्यार्थ्यांना पटली.

कविता–4.उद्दिष्ट–षेतकरी–कष्टकऱ्यांची जीवनगाथा व परीस्थितीचे वर्णन करणे.

साध्य–विद्यार्थी ग्रामीण भागातला असून शेतकऱ्यांच्या परीस्थितीची जाणीव झाली.

कविता– 5.उद्दिष्ट– कवी अनिलांच्या विराणीतून कवी मनाच्या उदासीनतेचे दर्शन घडविणे.

साध्य–कविला लाभलेल्या दुःखामुळे कविच्या मनाला उदासिनता प्राप्त झाली याची विद्यार्थ्यांना प्रचिती आली.

Unit III:

प्रकरण – 1.उद्दिष्ट–इतिवृत्त लेखन, प्रकार,पध्दती व लेखनाची काळजी याविषयी विद्यार्थ्यांना माहिती देणे.

साध्य –इतिवृत्त म्हणजे सभेची नोंद, प्रकार पध्दती व लेखन करतांना घ्यावयाची काळजी याची विद्यार्थ्यांना माहिती मिळाली.

प्रकरण – 2.उद्दिष्ट–प्रसारमाध्यमे आणि वृत्तलेखन याविषयी विद्यार्थ्यांना माहितीचे विप्लेषण करणे.

साध्य–दूक श्राव्य प्रसारमाध्यमांच्याद्वारे बातमी, बातमीचे लेखन व वृत्तपत्रीय लेखन कसे केले जाते याची माहिती विद्यार्थ्यांना झाली.

Course Objectives

- To explain the vital contemporary emerging issues of center-state relations, political parties, emergence of new leadership at different levels, demand for autonomy movement, ethnic conflicts, etc.
- To understand the strengths and weakness of Indian political processes, both in terms of their effectiveness in responding to public policy needs.
- To understand the current political issues in the context of wider debates about democratic life in India and the capacity of political institutions
- To understand the basic concept and issues concerning human rights and challenges.

Course Outcomes

- Familiarized with the vital contemporary emerging issues of center-state relations, political parties, the emergence of new leadership at different levels, demand for autonomy movement, ethnic conflicts, etc.
- Analyzed the strengths and weakness of Indian political processes, both in terms of their effectiveness in responding to public policy needs and retaining constitutional protections.
- Understood the current political issues in the context of wider debates about democratic life in India and the capacity of political institutions.
- Acquainted with a basic understanding of concepts and issues concerning the Right to Information Act, Human Rights, and Challenges.

Department of Economic
Course Objectives and Course Outcomes

Unit – I Introduction to Macro Economics

Objective – To discuss the Introduction of Macro Economics.

Outcomes – Students understand the concept of Macro Economics.

Unit – II National Income

Objective – To explain the concept of National income.

Outcome – Students understood the various concept of National income.

Unit – III Money and Value of Money

Objective – To evaluate the value of money and theories of the Value of Money.

Outcome – Students learned the theories of Value of Money.

Unit – IV **Output and Employment**

Objective – To introduce the theory of Employment.

Outcome- Students learnt the theory of Employment.

Dept. of English
Course Objectives and Course Outcomes
English Literature

Unit I: Objective-Making students conscious of the various issues of the Indian society.

Outcome-Students attempted to understand the various issues of the Indian society

Unit II: Objective- Making students realize revolution and its effects.

Outcome-Students realized equality, revolution and its effects.

Unit III: Objective- Making students understand the biography, autobiography and Criticism

Outcome- Students understood the biography, autobiography and Criticism.

Unit IV: Objective-Making students understand the Literary Terms.

Outcome-Students understood the Literary Terms and their usage

Department of Sociology
Course Objectives and Course Outcomes
Foundations of Social Thought

Unit - I Emergence of Sociology as a Discipline

Objective - To Make the students know in detail about the emergence of sociology as a discipline.

Outcome - Students understood the concept of the emergence of sociology as a discipline

Unit - II Founders of Sociology I

Objective - Students understood the concept of Founders of Sociology-I (August Comte, Herbert Spencer,)

Outcome - Students understood the concept of Founders of Sociology-I (August Comte, Herbert Spencer)

Unit – III Founders of Sociology II

Objective - Students understood the concept of Founders of Sociology-II (Charles of Horton Cooley, Emile Durkheim)

Outcome - Students understood the concept of Founders of Sociology-II (Charles of Horton Cooley, Emile Durkheim)

Unit - IV Founders of Sociology III

Objective - Students understood the concept of Founders of Sociology-III (Karl Marx, Max Weber)

Outcome -Students understood the concept of Founders of Sociology-II (Karl Marx, Max Weber)

Department of History
Course Objectives and Course Outcomes

Course Objectives

- To study Battle of Buxar and English policy.
- To understand Kayamdhara Methods, Ryotwari, and Lord Wellesley.
- To understand the uprising of 1857 (independent war) results.
- To understand how did nationalism emerge in India?

Course Outcomes

- Studied the Battle of Buxar and how the British implemented their policy in India
- Gained information about working methods, Kaymdhara, Ryotwari and Mahalwari and Lord Wellesley deployment forces.
- The uprising of 1857 (independent war) result was known
- Learned how Nationalism emerged in India

Department of Marathi Marathi Literature Course Objectives and Course Outcomes

Unit I: रु उद्दिष्ट—कुसुमाग्रजाच्या रसयात्रा कविता संग्रहाच्या आधारे विविध प्रकारच्या कवितांची ओळख व माहिती विद्यार्थ्यांना देणे.

साध्य—कुसुमाग्रजांच्या कवितासंग्रहातून सामाजिक कविता, राजकीय, राष्ट्रीय कविता, प्रेम कविता, निसर्ग कविता व तत्वज्ञानपर कवितांची माहिती विद्यार्थ्यांना झाली.

Unit II:

उद्दिष्ट—काव्यशास्त्र परिचय यातून काव्यकारण व षड्दशक्ती याविषयी विद्यार्थ्यांना माहिती देणे.

साध्य—विद्यार्थ्यांना काव्य निर्मितीचे कारण व षड्दशक्तीच्या अभिदा, व्यंजना व लक्षणा या षड्दशक्तीची माहिती प्राप्त झाली.

Semester-IV

Department of English Course Objectives and Course Outcomes Compulsory English

Unit I: Objective-Making students aware of the importance of faith and friendship

Outcome-Students understood the value of friendship.

Unit II: Objective- Making students realize about discipline and struggle.

Outcome-Students tried to apply the discipline and struggle in their lives.

Unit III: Objective- Making students understand the presence of the mind.

Outcome- Students were put through various activities to get the feel of it.

Unit IV: Objective-Grammatically correct usage of Tense and Voice.

Outcome-Students tried to solve the examples of Tense and Voice.

Unit V: Objective-To create the ability to use English for the purpose of communication.

Outcome-Students attempted to use English for the purpose of communication in the Class.

-Students attempted to use English for the purpose of communication in the Class.

**Department of Marathi
Course Objectives and Course Outcomes**

**Compulsory Marathi
साहित्यरंग.भाग.2**

Unit I:

प्रकरण – 1.उद्दिष्ट-आज्ञापत्राच्या आधारे राजकर्तव्ये पाठातून शिवछत्रपतींच्या कृतबगारीचा बोध विद्यार्थ्यांना करून देणे.
साध्य- राजकर्तव्ये पाठातील शिवाजींच्या कार्यकर्तृत्वाची विद्यार्थ्यांनी जाणिव झाली व विद्यार्थ्यांनी बोध घेतला.

प्रकरण –2.उद्दिष्ट-स्वराज्य व सुराज्य पाठातून लोकमान्य टिळकांच्या भारतीय स्वातंत्र्यासंबंधी योगदानाची विद्यार्थ्यांना माहिती करून देणे.

साध्य- भारतीय स्वातंत्र्यात लोकमान्य टिळकांच्या व्यक्तिचित्रणातून निर्भयता, निःस्पृहता, ज्वलंत देशभक्ती या गुणांचा प्रत्यय विद्यार्थ्यांना आला.

प्रकरण – 3.उद्दिष्ट- माध्यान्ह या पाठातील कुसुमावती देशपांडे यांचे माध्यान्हीच्या वेळेतील अनुभव विद्यार्थ्यांना सांगणे.
साध्य- माध्यान्हीच्या वेळेतील समतोलपणा, गंभीरता, अभिजात सौंदर्य व बानंद या गुणांची जाणीव विद्यार्थ्यांना झाली.

प्रकरण –4.उद्दिष्ट-अद्वैताचा साक्षात्कार यातून साने गुरुजींच्या संदेशाची विद्यार्थ्यांमध्ये रुजवणूक करणे.
साध्य- साने गुरुजींच्या अद्वैत भारतीय संस्कृतीचा आत्मा आहे, या तत्वाची विद्यार्थ्यांना जाणीव झाली.

प्रकरण –5.उद्दिष्ट- आधार या कथेतून वि.स. जोग यांनी रेखाटलेल्या भाऊकाकांची 'गोकांतिका विद्यार्थ्यांना सांगणे.
साध्य-ओंकारी, अधम संस्कृतीत वावरणाऱ्या भाऊकाकांच्या 'गोकांतिकेचा विद्यार्थ्यांनी बोध घेतला-

Unit II:

कविता- 1.उद्दिष्ट- अभंगवाणीतून संत चोखमेळाकालीन सामाजिक विमता व अन्यायकारक वागणूकीची माहिती देणे.
साध्य-तेराव्या शतकातील सामाजिक परिस्थिती रूढी परंपरांची माहिती चोखमेळाच्या अभंगातून विद्यार्थ्यांना समजून आली.

कविता –2.उद्दिष्ट-क्रांतीचा जयजयकार कवितेतून भारताच्या स्वातंत्र्यासाठी क्रांतीकारकांनी दिलेल्या योगदानाची माहिती सांगणे.

साध्य-कुसुमाग्रजांनी व्यक्त केलेली क्रांतीकारकांच्या मनातील स्वातंत्र्यासंबंधी देशभक्तीची जाणीव विद्यार्थ्यांना झाली.
कविता- 3.उद्दिष्ट-सत्य या संकल्पनेचे स्वरूप सत्याच्या जातीला कवितेतून विद्यार्थ्यांना सांगणे.

साध्य-परचंद्र मुकितबोध यांच्या कवितेतून संघर्षातील वृत्ती आणि विपरीत स्थितीतील उत्तुंग आषावाद याची माहिती विद्यार्थ्यांना मिळाली.

कविता- 4.उद्दिष्ट- रातझडीचा पाऊस कवितेतून 'तातल्या निसर्गाशी कविच्या वृत्ती तादात्म्य पावण्याची साक्ष पटविणे.
साध्य- प्रेमासक्त आणि निसर्गासक्त अशा दोन रुपांची सायुज्यता व पाऊसाची विद्यार्थ्यांना साक्ष पटली.

कविता- 5.उद्दिष्ट-माझ्या कवितेची चव कवितेतून कविच्या काव्यनिर्मितीचे प्रयोजन विद्यार्थ्यांना सांगणे.

साध्य- इंद्रजित भालेराव यांनी व्यक्त केलेली काव्यविष्णाची भूमिका विविध 'ब्द प्रतिमांतून विद्यार्थ्यांनी समजून घेतला.

Unit III:

प्रकरण – 3.उद्दिष्ट-पटकथा व संवादलेखन याबद्दलची माहिती विद्यार्थ्यांना देणे.

साध्य- सिनेमात कथा,पटकथा व संवादलेखन कसे असते याची जाणीव विद्यार्थ्यांना झाली.

प्रकरण – 4.उद्दिष्ट- स्मरणिकेचे संपादन व इतर संपादनकार्य व स्वरूप स्पष्ट करणे.

साध्य-स्मरणिकेचे संपादन कार्य व मासिकाचे कार्य काय असते हे विद्यार्थ्यांना कळले.

**Department Of Political Science
Course Objectives and Course Outcomes**

Course Objectives

- To explain the vital contemporary emerging issues of center-state relations and political parties, the emergence of the new leadership at different levels, demand for autonomy movement, ethnic conflicts etc.
- To understand the strengths and weakness of Indian political processes, both in terms of their effectiveness in responding to public policy needs.
- To understand the current political issues in the context of wider debates about democratic life in India and the capacity of political institutions.
- To understand the basic concept and issues concerning human rights and challenges.

Course Outcomes

- Familiarized with the vital contemporary emerging issues of center-state relations, political parties, the emergence of new leadership at different levels, demand for autonomy movement, ethnic conflicts etc.
- Analyzed the strengths and weakness of Indian political processes, both in terms of their effectiveness in responding to public policy needs and retaining constitutional protections.
- Understood the political issues in context of wider debates about democratic life in India and the capacity of political institutions.
- Acquainted with a basic understanding of concept and issues concerning Right to Information Act, Human Rights and Challenges.

Department of Economics

Course Objectives and Course Outcomes

Unit -I: Commercial and Central Bank Commercial Banks:

Objective – To explain the function of the Commercial and Central Bank and why it is important.

Outcome – Students learned the function of the Commercial and Central Bank and why it is important.

Unit –II: RBI and Innovation in Banking Reserve Bank of India:

Objective - Introduce RBI and innovation in Banking Sector.

Outcome – Students learnt about the structure of RBI and its function.

Unit -III: Financial Market Money Market:

Objective – To define Financial Market.

Outcome – Students understood the function of Financial Market.

Unit –IV: Health Economics and Statistics for Economics Health Economics:

Objective – To explain the importance of Health Economics and Statistics.

Outcome – Students understood the knowledge of Health Economics and Statistics

Department of English

Course Objectives and Course Outcomes

English Literature

Unit I: Objective-Making students conscious of the various issues of Indian society.

Outcome-Students attempted to understand the various issues of Indian society

Unit II: Objective- Making students realize revolution and its effects.

Outcome-Students realized equality, revolution, and their effects.

Unit III: Objective- Making students understand the biography, autobiography and Criticism.

Outcome- Students understood the biography, autobiography and Criticism.

Unit IV: Objective- Making students understand the Literary Terms.

Outcome- Students understood the Literary Terms and their usage.

Department of Sociology

Course Objectives and Course Outcomes

Indian Sociological Tradition

Unit - I Theoretical Roots of Caste in India

Objective - To make the students aware of the Theoretical Roots of Caste in India (B.R. Ambedkar, G.S. Ghurye)

Outcome - Student understood the concept of Founders of Theoretical Roots of Caste in India (B.R. Ambedkar, G.S. Ghurye)

Unit - II Social Change from Indian Perspective

Objective - To make the students aware of Social Change from Indian Perspective (M.N. Shrinivas, D.P.Mukharjee)

Outcome - Student understood the concept of Social Change from Indian Perspective (M.N. Shrinivas, D.P.Mukharjee)

Unit - III Indian Society and Contemporary Change

Objective - To make the students aware of Indian Society and Contemporary Change (R.K. Mukharjee, S.C. Dube)

Outcome - Student understood the concept of Indian Society and Contemporary Change (R.K. Mukharjee, S.C. Dube)

Unit - IV Gender and Society in India

Objective - To Make Students Aware of Gender and Society in India (Tarabai Shinde, Jyotiba Fule and Savitribai Fule)

Outcome - Student understood the concept of Gender and Society in India (Tarabai Shinde, Jyotiba Fule and Savitribai Fule)

Department of History

Course Objectives and Course Outcomes

B.A.II (IV -Sem) History of

India (1885 -1947)

Course Objectives

- To study How the National Congress was formed
- To understand What was the role of Jahal and Mawal.
- To study Non-cooperation, civil disobedience movement
- To learn Indian Independence Mountaineering Scheme

Course Outcomes

- Learned about the establishment of the National Congress
- Understood the role of Jahal and Mawal
- Information was received about non-cooperation, civil disobedience movement
- Gained detailed knowledge of how India became independent

Department of Marathi Marathi Literature Course Objectives and Course Outcomes

Unit I:

उद्दिष्ट— कुसुमाग्रजांच्या रसयात्रा कविता संग्रहाच्या आधारे विविध प्रकारच्या कवितांची ओळख व माहिती विद्यार्थ्यांना देणे.

साध्य—कुसुमाग्रजांच्या कवितासंग्रहातून सामाजिक कविता,राजकीय, राष्ट्रीय कविता, प्रेम कविता,निसर्ग कविता व तत्वज्ञानपर कवितांची माहिती विद्यार्थ्यांना झाली.

Unit II:

उद्दिष्ट—काव्यशास्त्र परिचय यातून काव्यकारण व षड्दशवृत्ती याविषयी विद्यार्थ्यांना माहिती देणे.

साध्य— विद्यार्थ्यांना काव्य निर्मितीचे कारण व षड्दशवृत्तीच्या अभिदा, व्यंजना व लक्षणा या षड्दशवृत्तीची माहिती प्राप्त झाली.

B. A. III

Semester-V

Department of Marathi Compulsory Marathi

Course Objectives and Course Outcomes

Unit I:

लीळाचरित्र एकांक दृडों. मदन कुळकर्णी

उद्दिष्ट— लीळाचरित्राच्या एकांक ग्रंथाच्या आधारे तत्कालीन सामाजिक परिस्थितीचा आढावा घेणे.

साध्य—लीळाचरित्र एकांक ग्रंथातून लीळांच्या आधारे विद्यार्थ्यांना तत्कालीन सामाजिक, धार्मिक व राजकीय परिस्थिती तसेच एकूण समाजजिवनाची ओळख विद्यार्थ्यांना झाली.

Unit II: दलित साहित्य वेदना व विद्रोह— भालचंद्र फडके

उद्दिष्ट— दलित साहित्य वेदना व विद्रोह यातून दलित साहित्याच्या अभ्यासाचे महत्त्व साहित्यातील योगदान व महत्त्व विद्यार्थ्यांना पटवून देणे.

साध्य— दलित साहित्याचा उगम, चळवळ तसेच साहित्यिकांचे प्रेरणास्थान व कार्य याची जाणीव विद्यार्थ्यांना झाली.

भाषाविज्ञानाचा परिचय. डॉ. मालसे, डॉ. कुळकर्णी

उद्दिष्ट— भाषाविज्ञानाचा परिचय विद्यार्थ्यांना करून देणे.

साध्य— प्रमाण भाषा आणि बोली तसेच स्पीम व पदविचार यांची माहिती विद्यार्थ्यांना झाली.

Department of Political Science
Course Objectives and Course Outcomes

Course Objectives

- List the difference between scholarly and popular publication in Comparative Politics.
 - To understand the issues of International and Domestic Politics and public Policy.
 - To analyze contemporary problems in the countries under consideration in light of the conceptual frameworks presented in class.
 - To discuss the major theories and concepts of political science and its subfields.
- To relate the basics of International Relations and the new trends in the realm of International Relations.

Course Outcomes

- Write an analysis of the institutions, political behavior and political ideas of another country comparing these attributes to the Indian model.
- Exposed to issues of International and Domestic Politics and Public Policy.
- Analyze contemporary problems in the countries under consideration in light of the conceptual frameworks presented in class.
- Presented with the major theories and concepts of political science and its sub fields.
- Aware with the basics of International Relations and the new trends in the realm of international relations.

Department of Economics

Course Objectives and Course Outcomes

Unit – I Nature of Indian Economy

Objective – To introduce the basic Knowledge of the Indian Economy

Outcome -Students learnt about the Knowledge of the Indian Economy.

Unit – II Agriculture

Objective –To explain the importance of the Agriculture Sector in the Indian Economy.

Outcome -Students learnt about the Importance of the Agriculture Sector in the Indian Economy.

Unit – III - Industry

Objective – To explain the Importance and Role of Industries in Economic Development

Outcome -Students learnt about the Knowledge of Industries in the Economic Development.

Unit – IV- Employment and Poverty

Objective- To develop preliminary knowledge of Employment and Poverty

Outcome -Students learnt about the preliminary knowledge of Employment and Poverty.

English Literature
SEM-V
Course Objectives and Course Outcomes

Objective: To enable students to analyze literary text.

Outcome: Students showed their ability to analyze literary text.

Objective: To enable students to interpret literary texts.

Outcome: Students showed their ability to interpret the literary text.

Objective: To enable students to understand significant developments in the history of English and Indian literature.

Outcome: Students became aware of significant developments in the history of English and Indian literature

Objective: To enable students to apply theoretical approaches to the critical reading of literary texts.

Outcome: Students tried to apply theoretical approaches to the critical reading of literary texts.

Department of Sociology

Course Objectives and Course Outcomes

Unit - I Indian Society, Structure and Inequality

Objective - To know in detail about Indian Society, Structure and Inequality

Outcome - Student understood the concept of Indian Society, Structure and Inequality

Unit - II Family in Contemporary India

Objective - To make the students aware of Family in Contemporary India.

Outcome - Student understood the concept of Family in Contemporary India

Unit - III Tribal Issues and Problems in India

Objective - To make the students aware of Tribal Issues and Problems in India.

Outcome – Students understood the concept of Tribal Issues and Problems in India.

Unit - IV Rural Community in India

Objective - To make the students know in details about Rural Community in India.

Outcome - Student understood the concept of Rural Community in India

Department of History Course Objectives and Course Outcomes

Course Objective

- To understand What were the causes and consequences of the French Revolution?
- To study How imperialism came into being
- To study World War I - Treaty of Vasai
- To understand United Nations and performance

Course Outcomes

- Understood The French Revolution was also the first revolution in the world
- Studied What are the reasons for imperialism?
- Understood World War I - The Treaty of Vasai
- Learned about the United Nations and its achievements and Failures

Department of Marathi

Course Objectives and Course Outcomes Marathi Literature

Unit I:

लीळाचरित्र एकांक दृडो. मदन कुळकर्णी

उद्दिष्ट— लीळाचरित्राच्या एकांक ग्रंथाच्या आधारे तत्कालीन सामाजिक परिस्थितीचा आढावा घेणे.

साध्य—लीळाचरित्र एकांक ग्रंथातून लीळांच्या आधारे विद्यार्थ्यांना तत्कालीन सामाजिक, धार्मिक व राजकीय परिस्थिती तसेच एकूण समाजजिवनाची ओळख विद्यार्थ्यांना झाली.

Unit IIरू दलित साहित्य वेदना व विद्रोह— भालचंद्र फडके

उद्दिष्ट— दलित साहित्य वेदना व विद्रोह यातून दलित साहित्याच्या अभ्यासाचे महत्व साहित्यातील योगदान व महत्त्व विद्यार्थ्यांना पटवून देणे.

साध्य— दलित साहित्याचा उगम, चळवळ तसेच साहित्यिकांचे प्रेरणास्थान व कार्य याची जाणीव विद्यार्थ्यांना झाली.

भाषाविज्ञानाचा परिचय. डॉ. मालसे, डॉ. कुळकर्णी

उद्दिष्ट— भाषाविज्ञानाचा परिचय विद्यार्थ्यांना करून देणे.

साध्य— प्रमाण भाषा आणि बोली तसेच स्पीम व पदविचार यांची माहिती विद्यार्थ्यांना झाली.

Department of Marathi SEMESTER-VI

Course Objectives and Course Outcomes Compulsory Marathi

Unit I:

प्रकरण – 6.उद्दिष्ट—चक्र या कथेतून महाभारतातील द्रौपदी या स्त्रीचे चित्रण विद्यार्थ्यांना माहित करून देणे.

साध्य— महाभारतातील द्रौपदीच्या मनातील गूढ वगुंतागुंतीचे भावनीक प्रसंगाची माहिती विद्यार्थ्यांना प्राप्त झाली.

प्रकरण – 7.उद्दिष्ट—पक्षीगान पाठातून पक्ष्यांच्या सौंदर्याचे दर्शन घडविणे..

साध्य—पक्षीगान मधून विविधपक्षी, पक्ष्यांची घरटी, त्यांची पिल्ले यांची माहिती व ओळख विद्यार्थ्यांना झाली.

प्रकरण – 8.उद्दिष्ट—अन्वरषा फकीर या मुस्लीम व्यक्तीमत्वाची ओळख विद्यार्थ्यांना करून देणे.

साध्य—लहान मुले, स्त्रीया, माणसे व आजुबाजूच्या गावातील जनतेसाठी उपयुक्त असे अन्वरषा फकीराचे व्यक्तिमत्व असल्याचे विद्यार्थ्यांना कळून आले.

प्रकरण –9.उद्दिष्ट— दाभोळकराच्या अंधश्रध्दा निर्मूलनाचे कार्याची माहिती विद्यार्थ्यांना करून देणे.

साध्य—वैज्ञानिक दृष्टिकोण व शास्त्रीय विचार पध्दतीने अंधश्रध्दा निर्मूलन करण्याचे घ्येय दाभोळकरांचे होते याची माहिती विद्यार्थ्यांना झाली.

प्रकरण –10.उद्दिष्ट—महिला ग्रामपंचायतीच्या निवडणुकीचे चित्रण विद्यार्थ्यांना सांगणे.

साध्य— ग्रामीण भागातील ग्रामपंचायत मधील निवडणुकीची माहिती व परिस्थितीची जाणीव विद्यार्थ्यांना आली.

Unit II:

कविता— 6.उद्दिष्ट—ही निळी पांढरी कवितेतील षरद ऋतूतील दुपारचे वर्णन करून देणे.

साध्य—इंदिरा संतानी केलेलीषरद ऋतूतील उन्हाची माहिती विद्यार्थ्यांना प्राप्त झाली.

कविता –7.उद्दिष्ट—दोन ज्योती यातून कविने वर्णन केलेल्या दोन ज्योतीचा उलघडा करणे .

साध्य—एक दुःखाची ज्योत लाल असते व दुसरी दुःखाची ज्योत काळी असून तीचे दुःख कायम टिकणारे असते याची जाणीव विद्यार्थ्यांना झाली.

कविता— 8.उद्दिष्ट—पारुस कवितेतून स्त्री मनाच्या विविध भावावस्था विद्यार्थ्यांना उलघडून दाखविणे .

साध्य—ग्रेस कवीने रेखाटलेले स्त्री वेदनेचे स्वरूप व स्त्री मनाच्या भावना याविषयीविद्यार्थ्यांना माहिती मिळाली.

कविता— 9.उद्दिष्ट—प्रेम कवितेच्या आधारे कविने रेखाटलेले पीडितांचे चित्रण करून जाणीव करून देणे.

साध्य—मानवी समाजरचनेत माणूसपण विसरत चालला असून पीडितांना न्याय मिळत नसल्याची साक्ष विद्यार्थ्यांना पटली.

कविता— 10.उद्दिष्ट— टाहारा कवितेतून आदिवासी समाजाला कसा पुढारी हवा याची माहिती विद्यार्थ्यांना देणे.

साध्य—कवितेत वर्णन केलेला आदिवासिंचा पुढारी कविला हवा असल्याची जाणीव विद्यार्थ्यांना झाली.

Unit III:

प्रकरण – 3.उद्दिष्ट—ग्रंथपरीक्षण कसे करावे व ग्रंथवाचन करताना कोणते घटक बघावेत याची माहिती विद्यार्थ्यांना करणे.

साध्य— ग्रंथपरीक्षण करताना परिक्षणाची पहीली पायरी ग्रंथवाचन होय त्यानंतर इतर बाबींकडे लक्ष्य द्यावे याची माहिती विद्यार्थ्यांना प्राप्त झाली.

प्रकरण – 4.उद्दिष्ट—इंटरनेट आणि मराठी भाषा व साहित्य याची माहिती विद्यार्थ्यांना करून देणे.

साध्य— संगणक संवाद,मराठी संकेतस्थळे, इंटरनेटवरील मराठी दैनिके, व मायबोली या संकेतस्थळावरील लेख, कविता, व इतर मराठी साहित्याची माहिती विद्यार्थ्यांना झाली

Compulsory English Course Objectives and Course Outcomes

Objective: To enable students to read fluently with proper pronunciation and comprehend the prose.

Outcome: Students read fluently with proper pronunciation and comprehended the prose

Objective: to make students enable to understand and enjoy one act play

Outcome: Students understood and enjoyed one-act- play.

Objective: To enable students to understand the poets and their prescribed poetry.

Outcome- Students understood the theme of the poems and had knowledge about the prescribed poets.

Objective: To enable students to have knowledge of applied skills like composing an Email, Curriculum vitae, paragraph with the help of given hints/points.

Outcome: Students had knowledge of applied skills like composing an Email, Curriculum vitae, paragraph with the help of given hints/points.

Objective: To enrich conversational skills of students

Outcome: Conversational skill of students improved

Department Of Political Science Course Objectives and Course Outcomes

Course Objectives

- List the difference between scholarly and popular publication in Comparative Politics.
- To understand the issues of International and Domestic Politics and public Policy.
- To analyze contemporary problems in the countries under consideration in light of the conceptual frameworks presented in class.
- To discuss the major theories and concepts of political science and its subfields.
- To relate the basics of International Relations and the new trends in the realm of International Relations.

Course Outcomes

- Write an analysis of the institutions, political behavior and political ideas of another country comparing these attributes to the Indian model
- Exposed to issues of International and Domestic Politics and Public Policy
- Analyze contemporary problems in the countries under consideration in light of the conceptual frameworks presented in class.
- Presented with the major theories and concepts of political science and its sub fields.
- Aware with the basics of International Relations and the new trends in the realm of international relations.

Department of Economics

Course Objectives and Course Outcomes

Unit -I: Economic Development and Growth

- Objective- To develop the ability to explain the core economic Sector of Economic Development and Growth.
- Outcome – Students learnt and accepted the Knowledge of Economic Development and Growth.

Unit –II: Planning and Policy

- Objective – To introduce the theory of Planning and Policy.
- Outcome - Students learnt the theory of Planning and Policy

Unit -III: Public Finance

- Objective- To develop preliminary knowledge of Public Finance.
- Outcome – Students learnt preliminary knowledge of Public Finance.

Unit –IV: International Trade

- Objective- To explain the theory of International Trade.
- Outcome –Students learnt about the theory of International Trade.

Department of Sociology Course Objectives and Course Outcomes

Current Social Problems in India

Unit - I Education in Contemporary

Objective - To make the students in detail about Education in Contemporary India.

Outcome - Students understood the concept of Education in Contemporary India.

Unit - II Displacement and Rehabilitation

Objective – To make the students aware of Displacement and Rehabilitation.

Outcome – Students understood the concept of Displacement and Rehabilitation.

Unit - III Intolerance, Riot Crime

Objective - To make students know in detail about Intolerance, Riot Crime.

Outcome - Students understood the concept of Intolerance, Riot Crime.

Unit IV Corruption

Objective - To make students aware of Corruption.

Outcome -Students understood the concept of Corruption.

Department of History Course Objectives and Course Outcomes

Course Objectives

- To Study what were Russia's five-year plans?

- To understand Hitler - Mussolini's foreign policy.
- To understand the Causes of World War II.
- To study the United Nations the and performance of Suez Canal.

Course Outcomes

- Learned about Russia's Five-Year Plan
- Learned about Hitler - Mussolini's foreign policy in detail.
- Learned the reasons for the Second World War.
- Received information about the United Nations.
- Understood the performance of the Suez Canal, NATO SEATO, Warsaw Pact.

Department of Marathi Course Objectives and Course Outcomes Marathi Literature

Unit I:

- गरुडझेप- भरत आंधळे
उद्दिष्ट गरुड जेप मधील लेखकानी नोकरीसाठी ध्येयवेडा प्रवास कसा केला याची माहिती देऊन विद्यार्थ्यांना प्रेरीत करणे.
साध्य- भरत आंधळेच्या षैक्षणिक प्रगतीचा व स्पर्धा परीक्षेच्या कार्याचा आढावा घेऊन विद्यार्थ्यांनी गरुडझेप आत्मकथनातून पेरणा घेतली.
प्राचीन मराठी वाङ्मयाचा इतिहास- ल.रा. नषिराबादकर.
उद्दिष्ट- प्राचीन मराठी वाङ्मयाचा इतिहासाच्या आधार संतसाहित्य, पंडिती साहित्य,षाहिरी साहित्य, बखर वाङ्मय या साहित्याची माहिती विद्यार्थ्यांना देणे
साध्य- संतसाहित्य, पंडिती साहित्य,षाहिरी साहित्य, बखर वाङ्मय या साहित्याची माहिती विद्यार्थ्यांना झाली.
भाषाविज्ञानाचा परिचय. डॉ. मालसे, डॉ. कृळकर्णी
उद्दिष्ट- भाषाविज्ञानाचा परिचय विद्यार्थ्यांना करून देणे.
साध्य- मराठी मुळाक्षरे, स्वन व स्वनांतरे यांची माहिती विद्यार्थ्यांना झाली.

Bachelor of Commerce Course Objectives and Course Outcomes

Semester -I Compulsory English

Course Objective

Students will be able -

- To understand the meaning of Start-up through the prescribed Life Sketches of Start-up founders
- To understand financial and business acumen through basic research skills for business
- To understand and value inclusivity in human nature
- To prioritize the importance of human life and wealth
- To understand horror stories with elements of surprise and irony
- To understand expansive and imaginative concepts

- To understand the meanings of motivation and indomitable spirit
- To take up tasks and not to worry about the end result for the larger benefit of Human kind
- To understand that tranquil temperament is the most potent weapon one can have against diversity
- To understand grammar and apply it in their writing skills

Course Outcomes

- Understood the meaning of Start-up through the prescribed Life Sketches of Start-up founders
- Understood financial and business acumen through basic research skills for business
- Understood and value inclusivity in human nature
- Understood prioritize the importance of human life and wealth
- Understood horror stories with elements of surprise and irony
- Understood expansive and imaginative concepts
- Understood the meanings of motivation and indomitable spirit
- Understood tasks and not to worry about the end result for the larger benefit of Human kind
- Understood that tranquil temperament is the most potent weapon one can have against diversity
- Understood grammar and apply it in their writing skills

Department of Marathi

Course Objectives and Course Outcomes

- उद्दिष्टे:— 1. मराठी भाषेविषयी विद्यार्थ्यांमध्ये अभिरुची निर्माण करणे.
 2. साहित्यलेखनाची व वाचनाची आवड निर्माण करणे.
 3. विद्यार्थ्यांमध्ये असलेल्या सुप्त कलांगुणांना वाव देऊन त्यांच्यात साहित्यविषयक वृद्धिंगत करणे.
 4. साहित्यातून मानवतावादी दृष्टिकोण रुजविणे.
 5. साहित्यातून समाजातील प्र"नांना वाचा फोडून त्यांचे निराकरण करणे.

- ध्येय:— 1. भावी काळात विद्यार्थ्यांमधून साहित्यनिर्मिती करणे.
 2. अध्यापन व अध्ययनात विद्यार्थ्यांना सहभागी करून संवाद"ील वातावरण निर्मिती करणे.
 3. विभागात विविध उपक्रमांचे आयोजन करून मराठी भाषेचा दर्जा वाढविणे.
 4. विद्यार्थ्यांमध्ये सं"ोधनवृत्ती वृद्धिंगत करणे.
 5. मराठी भाषेची प्रयोग"ाळा निर्माण करणे.

By the end of this course, the students will be able to:

CO1 भारतीय लोक"ाहीचे मूल्य विद्यार्थ्यांमध्ये रुजविणे.

CO2 ग्रामीण जनजिवन व शेतीनिष्ठे"ी विद्यार्थ्यांची नाळ जोळणे.

- CO3 संताच्या व्यावहारीक विचारांचा परिचय घडविणे.
- CO4 शाहू महाराजाच्या आरक्षण विषयी विचारांचा परिचय घडविणे.
- CO5 काव्यातील रसग्रहणक्षमता विकसीत करणे.
- CO6 विद्यार्थ्यांमध्ये आधुनिक मूल्य रुजविणे
- CO7 विद्यार्थ्यांमध्ये सामाजिक बांधिलकी निर्माण करणे.
- CO8 विद्यार्थ्यांमध्ये सर्जनशीलता निर्माण करणे.

Financial Accounting Course Objectives and Course Outcomes

Unit No. I - Financial Accounting.

- Objective- To make the students understand Financial Accounting. Meaning, Principles & Problem.
- Outcome -Students understood the following topics. Financial Accounting. Meaning, Objective, Principles & Problem.

Unit No 2- Hire Purchase Account.

- Objective - To make the students understand Hire Purchase Account Meaning, Method & Problems.
- Outcome- Students understood the following topics
Hire Purchase Account Meaning, Method & Problems.

Unit No 3- Final Account of Co-Operative Societies.

- Objective - To make the students to understand the Final Account Co-Operative Societies. Introduction, Type, Co-operative Legislation and Problems.
- Outcome- Students understood the following topics
Final Account of Co-Operative Societies
Introduction, Type, Co-Operative Legislation and Problems

Unit No 4- Join Venture Accounts.

- Objective- To make the students understand Join Venture Accounts Meaning, Method and Problem.
- Outcome - Students understood the following topics
Join Venture Accounts Meaning, Method and Problems.

BUSINESS ORGANISATION

Course Objectives and Course Outcomes

Objectives

- To make the students understand the concept, objective, importance of business.
- To acquaint the students with various forms of Business organization and their functioning.
- To make the students understand the concept, functions of Organization and types of Organization.
- To make the students understand the Internal constituents of the Business Organization Key Managerial Personnel, Chairman, Chief executive officer, E-Commerce, E-business and E-banking.

Outcomes

- Students understood the concept, objective and importance of business.

- Acquainted the students with various forms of Business organization and their functioning.
- Understood the concept, functions of Organization and types of Organization.
- Understood Internal constituents of the Business Organization Key Managerial Personnel, Chairman, Chief executive officer, E-Commerce, E-business and E-banking.

Company Law

Course Objectives and Course Outcomes

Unit No. I - Background of New Company

- Objective - To make the students understand the Background of New Company Act 2013, Corporate Personality & Kinds of Company.
- Outcome - Students understood the following topics. Background of New Company Act 2013, Corporate Personality & Kinds of Company.

Unit No 2- Memorandum of Association, Article of Association and Prospectus.

- Objective - To make the students understand the Memorandum of Association, Article of Association and Prospectus.
- Outcome - Students understood the Memorandum of Association, Article of Association and Prospectus.

Unit No 3- Shares and Share Capital

- Objective- To make the students understand Shares and Share Capital.
- Outcome- Students understood the following topics; Shares and Share Capital.

Unit No 4- Membership in a company, Director.

- Objective - To make the students understand Membership in a company, Director.
- Outcome- Students understood the following topics; Membership in a company, Director.

Business Economics- I

Course Objectives and Course Outcomes

Unit I-

Nature and Scope of Business Economics:

Objective- To make the students understand the concept of Business Economics.

Outcomes- Students get well understood the following topics:

Business Economics.

Unit II-

Theory of Consumption:

Objective- To make the students understand the Law of Demand, Elasticity of Demand & Demand forecasting.

Outcomes- Students get well understood the following topics:

Law of Demand, Elasticity of Demand & Demand forecasting.

Unit III-

Theory of Production:

Objective- To make the students understand the Theory of Production.

Outcomes- Students get well understood the Theory of Production.

Unit IV-

Theory of Cost and Revenue:

Objective- Students should be aware of the Theory of Cost and Revenue.

Outcomes-Students get well understood Theory of Cost and Revenue.

Semester-II
Compulsory English
Course Objectives and Course Outcomes

Course Objectives

- To understand the meaning of Start-up through the prescribed Life Sketches of Start-up founders.
- To understand financial and business acumen through basic research skills for business.
- To understand and value inclusivity in human nature.
- To prioritize the importance of human life and wealth.
- To understand horror stories with elements of surprise and irony.
- To understand expansive and imaginative concepts.
- To understand the meanings of motivation and indomitable spirit.
- To take up tasks and not to worry about the end result for the larger benefit of Humankind.
- To understand that tranquil temperament is the most potent weapon one can have against diversity.
- To understand grammar and apply it in their writing skills.

Course Outcomes

- Understood the meaning of Start-up through the prescribed Life Sketches of Start-up founders.
- Understood financial and business acumen through basic research skills for business.
- Understood and valued inclusivity in human nature.
- Understood prioritizing the importance of human life and wealth.
- Understood horror stories with elements of surprise and irony.
- Understood expansive and imaginative concepts.
- Understood the meanings of motivation and indomitable spirit.
- Understood the tasks and not to worry about the end result for the larger benefit of Human kind.

- Understood that tranquil temperament is the most potent weapon one can have against diversity.
- Understood grammar and apply it to their writing skills.

Department of Marathi
Course Objectives and Course Outcomes

By the end of this course, the students will be able to:

- CO1 भारतीय लोक”ाहीचे मूल्य विद्यार्थ्यांमध्ये रुजविणे.
- CO2 ग्रामीण जनजिवन व शेतीनिष्ठे”ी विद्यार्थ्यांची नाळ जोळणे.
- CO3 संताच्या व्यावहारीक विचारांचा परिचय घडविणे.
- CO4 शाहू महाराजाच्या आरक्षण विषयी विचारांचा परिचय घडविणे.
- CO5 काव्यातील रसग्रहणक्षमता विकसीत करणे.
- CO6 विद्यार्थ्यांमध्ये आधुनिक मूल्य रुजविणे
- CO7 विद्यार्थ्यांमध्ये सामाजिक बांधिलकी निर्माण करणे.
- CO8 विद्यार्थ्यांमध्ये सर्जन”ीलता निर्माण करणे.

Statistics and Business Mathematics
Course Objectives and Course Outcomes

Unit No. I - Statistics & Measures of Central Tendency

- Objective - To make the students understand the Background of Statistics & Measures of Central Tendency.
- Outcome - Students understood the following topics. Statistics & Measures of Central Tendency.

Unit No 2- Dispersion.

- Objective - To make the students understand Dispersion.
- Outcome - Students understood the following topics Dispersion.

Unit No 3- Skewness

- Objective - To make the students understand Skewness.
- Outcome - Students understood the following topics Skewness.

Unit No 4- Business Mathematics

- Objective- To make the students understand Business Mathematics.
- Outcome - Students understood the following topics.

BUSINESS MANAGEMENT

Course Objectives and Course Outcomes

Course Objectives

- To make the students understand the Meaning, types of management, Principles, function of Business Management.
- To make the students know about Planning and Decision Making.
- To make the students know about Delegation of Authority and coordination & Controlling.
- To expose the students for the applicability of recent trends in management practices.

- To make students familiar with the modern management practices being used by the corporate world.

Course Outcomes

- Understood the Meaning, types of management, Principles, and function of Business Management.
- Knew about Planning and Decision Making.
- Students knew about Delegation of Authority and coordination & Controlling.
- Exposed the students for the applicability of recent trends in management practices.
- Understood and became familiar with the modern management practices being used by the corporate world.

Secretarial Practice

Course Objectives and Course Outcomes

Unit No. I - Incorporation of Company

- Objective - To make the students understand the Incorporation of Company, Directors of Company.
- Outcome - Students understood the following topics Incorporation of Company, Directors of Company.

Unit No 2- Company Meeting, Company Agenda & Voting and Resolution.

- Objective - To make the students understand the Company Meeting, Company Agenda & Voting and Resolution.
- Outcome- Understood the Company Meeting, Company Agenda & Voting and Resolution.

Unit No 3- Report Writings, Secretarial audit & E-Governance and E-Filing

- Objective - To make the students understand Report Writings, Secretarial Audit & E-Governance and E-Filing.
- Outcome - Students get well understood the following topics Report Writings, Secretarial audit & E-Governance and E-Filing.

Unit No 4- Key Management Personnel, Appointment of Director & Management Remuneration.

- Objective - To Make the students understand Key Management Personnel, Appointment of Director & Management Remuneration.
- Outcome - Students understood the following topics Key Management Personnel, Appointment of Director & Management Remuneration.

Business Economics II

Course Objectives and Course Outcomes

Unit I-

Market Structure

Objective- To make the students understand the Market structure.

Outcome- Students understood the Market Structure.

Unit II-

Perfect & Imperfect Competition Markets

Objective- Students should become aware of Perfect& Imperfect Competition.

Outcome-Students understood Perfect& Imperfect Competition.

Unit III-

Theories of Distribution

Objective- Students should become aware of the Theory of Distribution.

Outcome-Students understood & they applied their knowledge.

Unit IV-

Business cycles & National Income

Objective- Students should become aware of Business cycles & National Income.

Outcome-Students understood Business cycles & National Income.

Compulsory English Semester-III

Course Objectives and Course Outcomes

Course Objective

Students will be able -

- To understand the meaning of Start-up through the prescribed Life Sketches of Start-up founders
- To understand financial and business acumen through basic research skills for business
- To understand and value inclusivity in human nature
- To prioritize the importance of human life and wealth
- To understand horror stories with elements of surprise and irony
- To understand expansive and imaginative concepts
- To understand the meanings of motivation and indomitable spirit
- To take up tasks and not to worry about the end result for the larger benefit of Human kind
- To understand that tranquil temperament is the most potent weapon one can have against diversity
- To understand grammar and apply it in their writing skills

Course Outcomes

- Understood the meaning of Start-up through the prescribed Life Sketches of Start-up founders
- Understood financial and business acumen through basic research skills for business
- Understood and value inclusivity in human nature
- Understood prioritize the importance of human life and wealth
- Understood horror stories with elements of surprise and irony
- Understood expansive and imaginative concepts
- Understood the meanings of motivation and indomitable spirit
- Understood tasks and not to worry about the end result for the larger benefit of Human kind
- Understood that tranquil temperament is the most potent weapon one can have against diversity
- Understood grammar and apply it in their writing skills

Department of Marathi
Course Objectives and Course Outcomes

By the end of this course, the students will be able to:

- CO1 मातृभाषेची आवड व जाणीव निर्माण करणे
- CO2 प्राचिन मराठीचे वैशिष्ट्य स्पष्ट करणे.
- CO3 विनोदी लेखनात खेळकरवृत्तीचे दर्शन घडविणे.
- CO4 संत साहित्यातून सामाजिक, सांस्कृतिक, आध्यात्मिक लोकशाहीचा पुरस्कार करणे.
- CO5 स्त्री विषयक जाणिव जागृती करणे.
- CO6 वृत्त लेखन व कल्पना विस्तार तंत्राची माहिती अवगत करणे.

Financial Accounting-II
Course Objectives and Course Outcomes

Unit I-

Consignment Accounts

Objective- Students should be aware of the topic of Consignment Accounts.

Outcomes- Students understood & solved the problems.

Unit II-

Hire Purchase:

Objective- Students should be aware of the topic of Hire Purchase.

Outcomes- Students understood & solved the problems.

Unit III-

Capital Structure & Issues of Shares.

Objective- Students should be aware of the topic of Capital Structure & Issues of Shares.

Outcomes- Students understood & solved the problems of Issues of Shares.

Unit IV-

Final Accounts of Joint Stock Companies

Objective- Students should be aware of topic of Final Accounts of Joint Stock Company.

Outcomes- Students understood & solved the problems.

Business Communication & Management Course Objectives and Course Outcomes

Unit No. I - Meaning, Definition and concept of Communication, objective of Communication

Objective - To make the students understand the Meaning, Definition and concept of Communication, objective of Communication

Outcome - The students understood the Meaning, Definition and concept of Communication, the objective of Communication

Unit No 2- Business Communication.

Objective - To make the students understand the Business Communication.

Outcome- The students understood Business Communication.

Unit No 3- Technology and Business Communication

Objective - To make the students understand Technology and Business Communication.

Outcome- Students understood the following topics;

Technology and Business Communication.

Unit No 4- M.S. Office Aided Communication.

Objective - To make the students understand M.S. Office-Aided Communication.

Outcome - Students understood the following topics;

M.S. Office Aided Communication.

Business Law

Course Objectives and Course Outcomes

Course Objectives

- Students will be able to understand various provisions of the related Acts the course gives the knowledge regarding The Indian Contract Act, 1872, The Sales of Goods Act, 1930, The Indian partnership Act 1932, Negotiable Instruments Act 1881.
- To make the students gain knowledge of various legal aspects of the business.
- To make the students understand laws that affect mercantile transactions.

- Students will be able to understand court interpretations of laws like, Prevention of Money Laundering Act-2002, Consumer Protection Act – 2002

Course Outcomes

- Student understood various provisions of the related Acts the course gives the knowledge regarding The Indian Contract Act, 1872, The Sales of Goods Act, 1930, The Indian partnership Act 1932, Negotiable Instruments Act 1881.
- Students gained knowledge of various legal aspects of the business.
- Students understood laws that affect mercantile transactions.
- Students understood court interpretations of laws like, the Prevention of Money Laundering Act-2002, Consumer Protection Act – 2002

Monetary Economics-I Course Objectives and Course Outcomes

Unit I-

Money

Objective- To make the students understand the concept of the Evolution of Money & Functions of Money.

Outcome-Students understood the concept of the Evolution of Money & Functions of Money.

Unit II-

Inflation & Deflation

Objective- To make the students understand the concept of inflation and deflation.

Outcome-Students developed their knowledge about inflation and deflation.

Unit III-

Money Market & Policies

Objective- To make the students understand the concept of the Money Market and Monetary Policy.

Outcome-Students understood & they applied their knowledge.

Unit IV-

Public Finance

Objective- To make the students

understand the concept of Public Finance.

Outcome-Students applied & developed the knowledge.

Semester-IV Compulsory English

Course Objectives and Course Outcomes

Course Objectives

Students will be able -

- To understand and value inclusivity in human nature
- To prioritize the importance of human life and wealth
- To understand horror stories with elements of surprise and irony
- To understand expansive and imaginative concepts
- To understand the meanings of motivation and indomitable spirit
- To take up tasks and not to worry about the end result for the larger benefit of Human kind
- To understand grammar and apply it in their writing skills

Course Outcomes

- Understood and value inclusivity in human nature
- Understood prioritize the importance of human life and wealth
- Understood horror stories with elements of surprise and irony
- Understood expansive and imaginative concepts
- Understood the meanings of motivation and indomitable spirit
- Understood tasks and not to worry about the end result for the larger benefit of Human kind
- Understood grammar and apply it in their writing skills

Department of Marathi
Course Objectives and Course Outcomes

By the end of this course, the students will be able to:

- CO1 मातृभाषेची आवड व जाणीव निर्माण करणे
- CO2 प्राचिन मराठीचे वैशिष्ट्य स्पष्ट करणे.
- CO3 विनोदी लेखनात खेळकरवृत्तीचे दर्शन घडविणे.
- CO4 संत साहित्यातून सामाजिक, सांस्कृतिक, आध्यात्मिक लोकगाणीचा पुरस्कार करणे.
- CO5 स्त्री विषयक जाणिव जागृती करणे.
- CO6 वृत्त लेखन व कल्पना विस्तार तंत्राची माहिती अवगत करणे.

Financial Accounting III
Course Objectives and Course Outcomes

Unit I-

Final Accounts of Banking Companies

Objective-Students should become aware of the topic of Final Accounts of Banking Companies.

Outcome-Students understood and solved the Problems.

Unit II-

Final Accounts of General Insurance Companies

Objective- Students should become aware of the topic of Final Accounts of General Insurance Companies.

Outcome-Student understood and solved the Problems.

Unit III-

Valuation of Goodwill

Objective- Students should become aware of the topic of the Valuation of Goodwill.

Outcome-Student understood and solved the Problems.

Unit IV-

Liquidation of Company

Objective- Students should become aware of the topic of the Liquidation of Company.

Outcome-Student understood & solved the Problems.

Skill Development Course Objectives and Course Outcomes

Unit No. I - Introduction- Basic Personality, Human Growth and Behavior and Motivation.

- Objective - To make the students understand the Introduction- Basic Personality, Human Growth and Behavior and Motivation.
- Outcome - The students understood the Introduction- Basic Personality, Human Growth and Behavior and Motivation.

Unit No 2- Communication Skill and Personality Development.

- Objective - To make the students understand Communication Skills and Personality Development.
- Outcome - The students understood the Communication Skills and Personality Development.

Unit No 3- Techniques in Personality Development.

- Objective - To make the students understand Techniques in Personality Development.
- Outcome - Students understood the following topics; Techniques in Personality Development.

Unit No 4- Entrepreneurial Skill Development.

- Objective - To make the students understand Entrepreneurial Skill Development.
- Outcome- Students understood Entrepreneurial Skill Development.

Income Tax
Course Objectives and Course Outcomes

Course Objectives

- To make the students understand the basic concepts involved in the Income Tax act and the basics of income tax.
- To make the students understand the Taxable Salary and tax liability.
- Students get exposure to provisions of taxation of house property.
- To make the students understand Income Tax Slab Rates. They know how to deduct under section 80C, 80 CCC, 80CCD, 80D, 80DDB, 80E,80G, 80GG and 80U. Students get exposure to provisions of taxation of Income from other sources.
- They learn the procedure of filing tax returns, Advance tax and tax refunds.

Course Outcomes

- Understood the basic concepts involved in Income Tax act and also the basics of income tax.
- Understood the Taxable Salary and tax liability.
- Students get exposure to provisions of taxation of house property.
- Understood Income Tax Slab Rates. They know how to deduct under section 80C, 80 CCC, 80CCD, 80D, 80DDB, 80E,80G, 80GG and 80U. Students get exposure to provisions of taxation of Income from other sources.
- They learn the procedure of filing tax returns, Advance tax and tax refunds.

Monetary Economics-II
Course Objectives and Course Outcomes

Unit I-

Commercial Bank

Objective-To make the students understand the functions of Commercial Bank.

Outcome-Students understood the functions of Commercial Bank.

Unit II-

E-Banking and Core Banking

Objective- To make the students understand -Banking and Core Banking.

Outcome-Students developed their knowledge.

Unit III-

Banks and Customers Relationship and Service

Objective- To make the students understand the Banks Customers Relationship and Service.

Outcome-Students understood & applied their knowledge.

Unit IV-

Central Bank

Objective- To make the students to understand the Central Bank.

Outcome-Students developed the knowledge about Central Bank.

Semester-V

Financial Accounting-IV

Course Objectives and Course Outcomes

Unit No.I - Amalgamations & Absorption of Companies.

Objective - To make the students understand Amalgamations & Absorption.

Outcome - Students understood the topics like Amalgamations & Absorption.

Unit No 2- Reorganization & reconstruction of Companies.

Objective - To make the students understand the Re-organization & reconstruction problem.

Outcome - Students understood the concepts of the Reorganization & reconstruction problems.

Unit No 3- Valuation of Shares

Objective - To make the students understand Valuation of Shares Problems.

Outcome- Students understood the Valuation of Shares Problems.

Unit No 4- Double Account system

Objective - To make the students understand Double Account system.

Outcome - Students understood the Double Account system.

Management Process

Course Objectives and Course Outcomes

Unit I-

Management and Administration

Objective- To make the students understand meaning and difference of Management and Administration.

Outcome-Students applied the knowledge of Management and Administration.

Unit II-

Managerial Development & Group Dynamics

Objective- To make the students to understand the Managerial Development & Group Dynamics

Outcome-Students understood the knowledge of Managerial Development & Group Dynamics.

Unit III-

Managerial Style

Objective- To make the students understand the Managerial Style.

Outcome-Students developed the knowledge of Managerial Style.

Unit IV-

Motivation:

Objective- To make the students understand the Motivation.

Outcome- Students understood the meaning of Motivation and their types.

Indian Economics
Course Objectives and Course Outcomes

Unit I-

Indian Economy & Planning:

Objective- To make the students understand the Indian Economy & Planning.

Outcomes-Students will be able to understand Indian Economy & Planning.

Unit II-

Indian Economy & Policy:

Objective- To make the students understand the Indian Economy & Policy.

Outcomes-Students will be able to understand Indian Economy & Policy.

Unit III-

Population & Unemployment:

Objective- To make the students understand the population & Unemployment

Outcomes-Students will be able to understand the population & Unemployment

Unit IV-

India's Public Finance:

Objective- To make the students understand Public Revenue and Public Expenditure.

Outcomes-Students will be able to understand the Public Revenue and Public Expenditure.

Computerize Accounting
Course Objectives and Course Outcomes

Objective - To make the students understand Introduction of Computerize Accounting, Advantage, Need and Accounting Groups.

Outcome - Students understood the following topics;
Introduction of Computerize Accounting, Advantage, Need and Accounting Groups.

Unit No 2- Accounting Software's.

Objective - To make the students understand Accounting Software.

Outcome - Students understood the topic- Accounting Software.

Unit No 3- Accounts Info Menu, Accounts Groups.

Objective - To make the students understand the Accounts Info Menu, Accounts Groups- Create Group, Ledger Accounts, Voucher & Features of Account Voucher.

Outcome - Students understood the following topics-
Accounts Info Menu, Accounts Groups-
Create Group, Ledger Accounts, Voucher & Features of Account Voucher.

Unit No 4- Inventory Info, Features of Inventory Info. Configure.

Objective - To make the students understand the Inventory Info, Features of the Inventory Info. Configure.

Outcome - Students understood the following topics-

Inventory Info, Features of Inventory Info. Configure.

Auditing
Course Objectives and Course Outcomes

- **Course Objectives**

- To make the Students learn a lot about the basics of audit and auditing, internal and external check, periodic audits, internal audit external audit , continuous audit, , cost audit, management audit and annual audit.
- To make the Students learn the Audit Planning and Audit Documentation and Evidence.
- To make the students understand standard on Auditing, Vouching & Verification Vouching, Verification of Assets and Liabilities.
- A glimpse into company audit gives an idea of appointing a company auditor, and the Procedure of audit in a company etc. along with the rules of company and corporate audit.

Course Outcomes

- Students learnt a lot about basics of audit and auditing, internal and external check, periodic audit, internal audit external audit , continuous audit, , cost audit, management audit and annual audit.
- Students learnt Audit Planning and Audit Documentation and Evidence.
- Students understood the standard on Auditing, Vouching & Verification Vouching, Verification of Assets and Liabilities.
- A glimpse into company audit gave an idea of appointing a company auditor, and the Procedure of audit in a company etc.along with the rules of the company and corporate audit.

Semester-VI

**Financial Accounting-V
Course Objectives and Course Outcomes**

Unit No.I - Accounting of Holding Company.

- Objective - To make the students understand Accounting of Holding Company
- Outcome - Students understood the following topics Accounting of Holding Company.

Unit No. 2 - Insurance Claims.

- Objective - To make the students understand the Insurance Claims.
- Outcome - Students understood the following topics Insurance Claims.

Unit No. 3 - Investment Accounts.

- Objective - To make the students understand Investment Accounts.
- Outcome - Students understood the topic- Investment Accounts.

Unit No. 4 - Profit Prior to Incorporation.

- Objective - To make the students understand the Profit Prior to Incorporation.
- Outcome - Students understood the topic- Profit Prior to Incorporation.

Management Accounting

Course Objectives and Course Outcomes

Course Objectives

- To make the students get a clear idea about the concept, objectives, importance and benefits of management accounting along with the basic advantages and

significance of various techniques of management accounting and Break-Even Point Analysis.

- A good idea of preparing various budgets like cash budget, flexible budgets and capital budgets help in drafting budget and budget control measures in organizations.
- Students get a clear idea of Ratio Analysis like- Computation of Profitability Ratio, Financial Ratio with special reference to Current Ratio, Classification of Ratio, Liquid Ratio, Inventory Turnover Ratio, Debtors and Creditors Turnover Ratio, Debt-Equity Ratio, Working Capital Ratio, Earnings per Share Ratio.
- To make the students understand and get a clear idea of the Fund Flow Statement.

Course Outcomes

- Student got a clear idea about the concept, objectives, importance and benefits of management accounting along with the basic advantages and significance of various techniques of management accounting and Break-Even Point Analysis.
- Understood good ideas of preparing various budgets like cash budget, flexible budgets and capital budgets help in drafting budget and budget control measures in organizations.
- Students understood clear idea of Ratio Analysis like- Computation of Profitability Ratio, Financial Ratio with special reference to Current Ratio, Classification of Ratio, Liquid Ratio, Inventory Turnover Ratio, Debtors and Creditors Turnover Ratio, Debt-Equity Ratio, Working Capital Ratio, Earnings per share Ratio.
- Understood and got clear idea of Fund Flow Statement

Advanced Statistics

Course Objectives and Course Outcomes

Objective - To make the students understand the Accounting of Correlation

Outcome - Students understood the following topics. Correlation Company

Unit No. 2 - Regression.

Objective- To make the students understand Regression.

Outcome - Students understood the Regression.

Unit No. 3 - Index Number.

Objective - To make the students to understand Index Number.

Outcome - Students understood the following topics Index Number.

Unit No. 4 - Time Series Analysis.

Objective - To make the students understand Time Series Analysis.

Outcome- Students understood the Time Series Analysis.

Indian Economics-II

Course Objectives and Course Outcomes

Unit I

Indian Agriculture

Objective- To make the students understand the Indian Agriculture.

Outcome-Students applied the knowledge.

Unit II

Indian Industry

Objective- To make the students understand the Indian Industry.

Outcome-Students created the knowledge.

Unit III

India's Service Sector and International Trade

Objective- To make the students understand the India's International Trade.

Outcome-Students developed the knowledge.

Unit IV

Contribution of Indian Economic Thinkers

Objective- To make the students understand the contribution of Indian Economic Thinkers (Mahatma Gandhi, Pandit Dindayal Upadhyaya, Dr. B. R. Ambedkar, Dr. Ram Manohar Lohiya.)

Outcome-Students understood the contribution of Indian Economic Thinkers (Mahatma Gandhi, Pandit Dindayal Upadhyaya, Dr. B. R. Ambedkar, Dr. Ram Manohar Lohiya.)

Human Resource Management Course Objectives and Course Outcomes

Unit I-

Introduction

Objective- To make the students understand the concept of Human Resources Management & Human Resource Manager.

Outcome-Students understood the concept of Human Resources Management & Human Resource Manager.

Unit II-

Recruitment, selection and training

Objective- To make the students understand the Recruitment, selection and training

Outcome-Students understood the Recruitment, selection and training

Unit III-

Labor welfare and collective bargaining

Objective- To make the students to understand the Labor welfare and collective bargaining.

Outcome-Students understood the Labor welfare and collective bargaining.

Unit IV-

Human Resource Planning and Accounting

Objective- To make the students understand the Human Resource Planning and Accounting.

Outcome-Students understood Human Resource Planning and Accounting.

Industrial Law

Course Objectives and Course Outcomes

Course Objectives

- To make the students to understand The Indian Factories Act, 1948 and The Industrial Disputes Act, 1947.
- Learners learn Laws Relating to Wages, Laws Relating to Bonus and Gratuity, Laws Relating to Employee's State Insurance and Provident Fund and Laws Relating to Workmen Compensation and Maternity Benefits.
- To make the students to understand Child Labour Act, 1986, Trade Union Act, 1926, International Labour Organisation – ILO and Contract Labour Act, 1971.
- Students will be able to understand the meaning and nature of Industrial Estate, Technology Park, SEZ and Co-operative Industrial Estate.
- Learners learn Intellectual Property Rights Law in India and Environment Protection Act, 1986.

Course Outcomes

- Understood The Indian Factories Act, 1948 and The Industrial Disputes Act, 1947.
- Learned Laws Relating to Wages, Laws Relating to Bonus and Gratuity, Laws Relating to Employee's State Insurance and Provident Fund and Laws Relating to Workmen Compensation and Maternity Benefits.
- Understood Child Labour Act, 1986, Trade Union Act, 1926, International Labour Organisation – ILO and Contract Labour Act, 1971.
- Understood the meaning and nature of Industrial Estate, Technology Park, SEZ and Co-operative Industrial Estate.
- Learners learnt Intellectual Property Rights Law in India and Environment Protection Act, 1986.

Bachelor of Science (B.Sc.)

Semester-I

Department of English

Compulsory English

Course Objectives and Course Outcomes

Unit I: Objective-Making students' conscious about the functioning of Democracy.

Outcome-Students tried to understand the importance of democracy.

Unit II: Objective- Making students understand slavery and its effects.

Outcome-Students tried to understand the effects of slavery and its punishing practice.

Unit III: Objective-to make students understand correct usage of Tense, Transformation of sentences and Common errors.

Outcome-Students tried to solve the examples of Tense, Transformation of sentences and Common errors.

Unit IV: Objective-To create the ability of writing Curriculum Vitae.

Outcome-Students attempted to write the Curriculum Vitae.

Unit I: Objective-Making students conscious of slavery, education, and compassion.

Outcome-Students understood the issues related with slavery, education and struggle in life.

Unit II: Objective- Making students understand about Self- reliance, Indian Freedom and words of wisdom.

Outcome- students understood about Self- reliance, Indian Freedom and words of Wisdom.

Unit III: Objective-To make students understand the value of struggle, Kindness and honesty.

Outcome- students understood the value of struggle, Kindness and honesty.

Unit IV: Objective-To create the ability of writing and comprehension.

Outcome-Students attempted to write and comprehend the passage.

Department of Marathi
Course Objectives and Course Outcomes

Course Objectives

उद्दिष्टे:- १. मराठी भाषेविषयी विद्यार्थ्यांमध्ये अभिरुची निर्माण करणे.

२. साहित्यलेखनाची व वाचनाची आवड निर्माण करणे.

३. विद्यार्थ्यांमध्ये असलेल्या सुप्त कलांगुणांना वाव देऊन त्यांच्यात साहित्यविषयक वृद्धिंगत करणे.

४. साहित्यातून मानवतावादी दृष्टिकोण रुजविणे.

५. साहित्यातून समाजातील प्रश्नांना वावा फोडून त्यांचे निराकरण करणे.

ध्येय:- १. भावी काळात विद्यार्थ्यांमधून साहित्यनिर्मिती करणे.

२. अध्यापन व अध्ययनात विद्यार्थ्यांना सहभागी करून संवादशील वातावरण निर्मिती करणे.

३. विभागात विविध उपक्रमांचे आयोजन करून मराठी भाषेचा दर्जा वाढविणे.

४. विद्यार्थ्यांमध्ये संशोधनवृत्ती वृद्धिंगत करणे.

५. मराठी भाषेची प्रयोगशाळा निर्माण करणे.

Course Outcomes

साहित्य सेतू

CO1 विद्यार्थ्यांमध्ये साहित्य विषयक आवड निर्माण करणे

CO2 वाचन संस्कृतीचा पुरस्कार करणे

CO3 भारतीय संविधानाचे महत्व समजावून सांगणे

CO4 मानवी मुल्यांची जपणूक करणे

CO5 कविता लंखनाचे तंत्र अवगत करणे

CO6 पर्यावरण विषयक जागृती निर्माण करणे

CO7 व्यावहारिक मराठीचे महत्व समजावून सांगणे

Department of Chemistry Programme Educational Objectives (PEOS)

PEO1: Graduates will pursue higher studies in related fields including management

PEO2: Graduates will perform as employee in private/government institutions rising up to top positions

PEO3: Graduates will become entrepreneurs.

PEO4: Graduates will prepare for various competitive examinations.

Programme Specific Outcomes (PSOS)

PSO-1: Gain the knowledge of Chemistry through theory and practical.

PSO-2: To explain nomenclature, stereochemistry, structures, reactivity, and mechanism of the chemical reactions.

PSO-3: Identify chemical formulae and solve numerical problems.

PSO-4: Use modern chemical tools, Models, Chem-draw, Charts and Equipment's.

PSO-5: Know structure-activity relationship

PSO-6: Understand good laboratory practices and safety.

PSO-7: Make aware and handle the sophisticated instruments/equipment.

PSO-8: Develop research-oriented skills.

PSO-9: Study and understand the different techniques used in purification of compounds

Programme Outcomes (POs)

- The students are expected to understand the fundamentals, principles, and recent developments in the subject area.
- It is expected to inspire and boost interest of the students towards chemistry as the main subject.
- To impart practical skills and learn basics behind experiments

- To prepare background for advanced and applied studies in chemistry.
- To inculcate the scientific temperament in the students and outside the scientific community.
- To inculcate the scientific temperament in the students and outside the scientific community.
- Use modern techniques, decent equipment and Chemistry software

Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: First/First

Subject: Chemistry

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
FY Paper-I Inorganic Chemistry (101)	101.1	<ul style="list-style-type: none"> • To understand the basic structure of atom. • Understand shape of orbitals. • Understand periodic properties such as atomic and ionic radii, ionization energy, electron affinity etc.
	101.2	<ul style="list-style-type: none"> • To understand the concept of covalent bond. • To understand the bond parameters and various types of types of hybridization. • To understand the ionic structures with respect to NaCl and CsCl.
	101.3	<ul style="list-style-type: none"> • Understand s block element and their properties such as electronic configuration, atomic and ionic radii, I.P. etc. • Understand chemical properties of the noble gases, preparation, structures, bonding and applications.
	101.4	<ul style="list-style-type: none"> • To understand the P block element. Comparative study of groups 15,16, 17 with respective their properties. • Understand the Hydrides, Oxides, Peroxyacids, Hydrides.
FY Paper-II Physical Chemistry (102)	102.1	<ul style="list-style-type: none"> • Understand the common thermodynamics terms. Types of systems and varies thermodynamics processes. • State and path functions and their differentiation. • Understand the first law of thermodynamics.
	102.2	<ul style="list-style-type: none"> • Understand gas equation and laws. • Understand qualitative discussion of the Maxwell-Boltzmann distribution.

		<ul style="list-style-type: none"> Understand ideal gas and real gases behaviors.
	102.3	<ul style="list-style-type: none"> Understand the Intermolecular forces, structure of liquid, structural difference between solid, liquid and gases. Properties of liquid like surface tension, viscosity, refractive index.
	102.4	<ul style="list-style-type: none"> Understand the concept of different types of surface phenomenon and catalytic property, like Adsorption mechanism of adsorption, factor affecting adsorption. Difference between adsorption and absorption, etc. Understand types of catalysis and enzymes.
F.Y. Chemistry Practical Course	103	<ul style="list-style-type: none"> Verify theoretical principles experimentally Interpret the experimental data Improve analytical skills Correlate the theory and experiments and understand their importance

Department of Physics

Programme Educational Objectives (PEOS)

- PEO1:** Graduates will pursue higher studies in related fields including management
- PEO2:** Graduates will perform as employee in private/government institutions rising up to top positions
- PEO3:** Graduates will become entrepreneurs.
- PEO4:** Graduates will prepare for various competitive examinations.

Programme Specific Objectives (PSOS)

- PSO-1:** Gain the knowledge of Physics through theory and experiments.
- PSO-2:** Understand good laboratory practices and safety.
- PSO-3:** Develop research-oriented skills.
- PSO-4:** Make aware and handle the sophisticated instruments/equipments.

Programme Outcomes (POs)

- Bachelor of Science offers theoretical as well as practical knowledge about different subject areas.

- This course forms the basis of science for coherent understanding of the academic field to pursue multi and interdisciplinary science careers in future. These subject areas include Physics, Chemistry, Mathematics and Botany and Zoology.
- Able to plan and execute experiments or investigations, analyze and interpret data information collected using appropriate methods
- It helps to develop scientific temper and thus can prove to be more beneficial for the society as the scientific developments can make a nation or society to grow at a rapid pace through research.
- Think critically; follow innovations and developments in science and technology.

Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: First/First

Subject: Physics

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
Paper 1: Properties of Matter and Mechanics (101)	101.1	<ul style="list-style-type: none"> • Understand the mechanical behavior of the material and the fundamental terminology like Stress, Strain, Poisson's ratio, Hooks law, bending moment and modulus of elasticity
	101.2	<ul style="list-style-type: none"> • Understand the concept of viscosity. • Apply Poiseuille's Equation, Bernoulli's Theorem, Stoke's law and the concept of terminal velocity.
	101.3	<ul style="list-style-type: none"> • Understand the concept of surface tension and surface energy, Newton's laws of motion and to resolve the components of velocity and acceleration in different coordinate system.
	101.4	<ul style="list-style-type: none"> • Understand the System of particles and conservation laws.
Paper 2: Electrostatics, Time varying fields & Electric Currents (102)	102.1	<ul style="list-style-type: none"> • Understand the concept of Electrostatic force, Electric field, Electric potential, Electric dipole, Electric dipole moment.
	102.2	<ul style="list-style-type: none"> • Understand the concept of polarization and capacitors with and without dielectric. • Apply Gauss law to parallel plate capacitor.
	102.3	<ul style="list-style-type: none"> • To understand the concept of electromagnetic induction and transformer. • Apply equation of continuity and Kirchoff's law to rise and decay of current in LR, CR and LCR circuits.
	102.4	<ul style="list-style-type: none"> • To apply complex number in solving an a.c. circuit. • Apply j- operator in LR, CR and LCR circuit. • Understand the concept of Resonance • Calculate I, Z, Φ and fr.
Physics Practical (103)	103	<ul style="list-style-type: none"> • Apply and demonstrate the theoretical concepts of Physics and to develop scientific attitude. • Interpret the experimental data

Programme Educational Objectives (PEOs): B.Sc. (Mathematics)

1.	Graduates will pursue higher studies in related fields including management
2.	To prepare necessary knowledge base for research and development in Mathematics
3.	To help student's build-up a successful career in Mathematics

Programme Specific Outcomes (PSO): B.Sc. (Mathematics)

1.	Enhance students' ability to develop mathematical models
2.	Develop research-oriented skills.
3.	Nurture problem solving skills, thinking, and creativity through assignments, project Work.
4.	Prepare for various competitive exams

Programme Outcomes (POs): B.Sc. (Mathematics)

1.	Understand and solving of major concepts in all disciplines of mathematics.
2.	Solve the problem and also think methodically, independently and draw a logical conclusion.
3.	To inculcate the scientific temperament in the students and outside the scientific community.
4.	Create an awareness of the impact of mathematics on society and development outside the scientific community.
5.	Gain experience investigating the real-world problems and learn to how to apply Mathematical ideas and models to those problems.
6.	Understand and able to use mathematical formulae in another subject.

COURSE OUTCOMES (COs)

Course Name: B. Sc.

Year/Semester: First/First

Subject: Mathematics

After successful completion of three-year degree programme in **Mathematics** students should be able to;

Paper	CO	Outcomes
FY Paper-I Algebra and Trigonometry 101	101.1	Understand the basic concept related to Matrices and solve the problem based on a system of Linear equations
	101.2	Understand the general properties of equations and Solutions of Different equations
	101.3	Understand the basics of complex numbers and solve the problems
	101.4	understand Group theory and general properties
FY Paper-II 102 Calculus	102.1	Using Definition, verify the values of limit and continuity and solve the problem on Differentiation
	102.2	Understand the concept of Maclaurins and Taylor's theorem Identify Indeterminate forms and application of

		L'Hospital's Rule
	102.3	Understand the concept of partial differential equation, Euler's Theorem and Jacobians
	102.4	Identify the various types and methods to solve Integration and application of Reduction Formulae

Department of Zoology

PROGRAMME EDUCATIONAL OBJECTIVES (PEOs):

1.	Graduates will pursue higher studies in related fields including management
2.	Graduates will perform as employers in private/government institutions rising up to top positions
3.	Graduates will become entrepreneurs.

PROGRAMME OUTCOMES (PO)

1.	The students are expected to understand the fundamentals, principles, and recent developments in the subject area.
2.	It is expected to inspire and boost interest of the students towards zoology as the main subject.
3.	To impart practical skills and learn basics behind experiments.
4.	To prepare background for advanced and applied studies in zoology.
5.	To inculcate the scientific temperament in the students and outside the scientific community.
6.	To inculcate the scientific temperament in the students and outside the scientific community.
7.	Use modern techniques, decent equipments and Zoology softwares.

PROGRAMME SPECIFIC OUTCOMES

1.	Gain the knowledge of Zoology through theory and practicals.
2.	Use modern biological tools, Models, Charts and Equipment's.
3.	Know structure-activity relationship.
4.	Understand good laboratory practices and safety.
5.	Make aware and handle the sophisticated instruments/equipment.
6.	Develop research-oriented skills.
7.	Study and understand the different technique used in purification of compounds

COURSE OUTCOMES (COs)

Course Name: B. Sc.

Year/Semester: First/First

Subject: Zoology**After the successful completion of the course students will be able to-**

Paper	CO	Outcomes
FY Paper-I Life and Diversity of Animals – Non- chordates (Protozoa to Annelida) (101)	101.1	To understand general characters and classification up to classes of protozoa, structure and reproduction of <i>Paramecium</i> , structure and life cycle of <i>Plasmodium</i> , parasitic Protozoans of Man (<i>Entamoeba</i> , <i>Trypanosoma</i> , <i>Giardia</i> and <i>Leishmania</i>). Mode of infection and its control.
	101.2	To understand the general characters and classification up to classes of porifera, Structure, reproduction and development, Canal system in sponges, General characters and classification up to classes of Coelenterata, structure and life cycle of <i>Obelia</i> , Polymorphism in hydrozoa.
	101.3	To Understand the Helminthes: General characters and classification up to classes, <i>Ascaris</i> : External morphology, reproductive system and life cycle, <i>Taenia solium</i> : Structure and life cycle, Elementary idea of parasitic adaptations in helminthes
	101.4	To Understand the Annelida : General characters and classification up to classes, Leech : Morphology, digestive and urinogenital system, Trochophore larva and its significance, Vermiculture and its importance
FY Paper-II Environmental Biology (102)	102.1	To understand the Atmosphere: Major zones and its importance, composition of air, Hydrosphere: Global distribution of water, Physico-chemical characteristics of water, Lithosphere: Types of rocks, formation of soil, Renewable and non- renewable energy sources
	102.2	Understand the Ecosystem - Definition and types, Detailed study of pond ecosystem, Food chain, food web and ecological pyramids, Energy flow in an ecosystem, Single channel, Y – shape and Universal model
	102.3	To understand the Biodiversity and its conservation, Causes of reduction of biodiversity, Wildlife conservation acts (1972 and 1984), Introductory study of national parks and sanctuaries – Tadoba, Kanha, Bharatpur and Nagzira, Hot spots of biodiversity in India
	102.4	To understand the Sources, effect and control measures of air pollution, Acid rain, green house effect, ozone depletion and global warming, Sources, effect and control measures of water pollution, Sources effect and control measures of noise pollution, Toxic effect of heavy metals (lead, cadmium and mercury) – Bioaccumulation and biomagnification
F.Y. Zoology Practical Course	103	<ul style="list-style-type: none">• Verify theoretical principles experimentally• Interpret the experimental data• Improve analytical skills• Correlate the theory and experiments and understand their importance

Department of Botany**PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)**

1.	Graduates will pursue higher studies in related fields including management
2.	Graduates will perform as employee in private/government institutions rising up to top positions
3.	Graduates will become entrepreneurs.
4.	Graduates will prepare for various competitive examinations.

PO1. Understanding of Plant Diversity and its importance in the maintenance of ecological balance.

PO2. Students learn to carry out practical work, in the field and in the laboratory, interpreting plant morphology and anatomy, Plant identification, Vegetation analysis techniques.

PO3. Apply the knowledge of basic science, life sciences and fundamental process of plants.

PO4. Apply modern techniques and instruments for Biochemical estimation, Molecular Biology, Biotechnology, Plant Tissue culture experiments, cellular and physiological studies of plants with an understanding of the applications in human life.

PO5. Apply the knowledge gained from the studies for the upliftment of society via addressing health, environmental issues, food scarcity etc.

PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

PSO1. Critical evaluation of ideas and arguments by collecting relevant information about the plants, so as to recognize their position in the classification systems and phylogenetic level.

PSO2. Students will be able to access the primary literature, identify relevant works for a particular topic, and evaluate the scientific content of these works

PSO3. Students will be able to compare and contrast the characteristics of the different groups of plants such as algae, fungi, bryophytes, pteridophytes, gymnosperms and angiosperms.

PSO4. Students will be able to use the evidence of comparative biology to explain how the theory of evolution offers the only scientific explanation for the unity and diversity of life on earth.

PSO5. Students will be able to explain how Plants function at gene, genome, cellular and tissue level,

PSO6. Students will be able to relate the physical features of the environment to the structure of populations, communities, and ecosystems.

PSO7. Students will be able to conceive the idea of artificial propagation of plants via vegetative methods and to find a livelihood via establishing miniature plant nurseries

Course Name: B. Sc.

Year/Semester: First/First

Subject: Botany

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
FY Paper-I Viruses, Prokaryotes, Algae And	101.1	<ul style="list-style-type: none"> To understand the nature of viruses, Ultra-structure and economic importance. Understand the properties of Mycoplasma and its reproduction. Understand general characteristics and

Biofertilizers (101)		reproduction in bacteria.
	101.2	<ul style="list-style-type: none"> To understand general characteristics and classification of algae To understand the to understand general structure of Cyanobacteria and its reproduction.
	101.3	<ul style="list-style-type: none"> Understand life cycle of <i>Chara</i>, <i>Vaucheria</i>, <i>Ectocarpus</i>, and <i>Batrachospermum</i>.
	101.4	<ul style="list-style-type: none"> To understand Scope and importance of Biofertilizers. Understand the microbes used in biofertilizers.
FY Paper-II Fungi, Plant Pathology, Lichens, Bryophyta and Mushroom Cultivation (102)	102.1	<ul style="list-style-type: none"> Understand the Characteristics of fungi. Understand the reproduction and life cycle of <i>Albugo</i>, <i>Mucor</i>, <i>Puccinia</i> and <i>Cercospora</i>.
	102.2	<ul style="list-style-type: none"> Pathogen study, control and causes of diseases : leaf curl of papaya, Citrus canker and red rot of sugarcane
	102.3	<ul style="list-style-type: none"> Understand classification and general characteristics of Bryophyta. Life history of <i>Marchantia</i>, <i>Anthoceros</i> and <i>Funaria</i> To Study the nutritional and medicinal values of edible and non-edible mushrooms. Technology of mushroom cultivation
F.Y. Chemistry Practical Course	103	<ul style="list-style-type: none"> Study the fungal genera. Study the lichens, thallus structure and types of lichens. Plant pathological study. Study of bryophytes and identification of its characteristics. Preparation of mushroom beds.

Semester II
Department of English
Course Objectives and Outcomes
Compulsory English

Unit I : Objective-Making students conscious about the functioning of Democracy.

Outcome-Students tried to understand the importance of democracy.

Unit II: Objective- Making students understand slavery and its effects.

Outcome-Students tried to understand the effects of slavery and its punishing practice.

Unit III: Objective-To make students understand correct usage of Tense, Transformation of sentences and Common errors.

Outcome-Students tried to solve the examples of Tense, Transformation of sentences and Common errors.

Unit IV: Objective-To create the ability to write Curriculum Vitae.

Outcome-Students attempted to write the Curriculum Vitae.

**Department of Marathi
Course Objectives and Outcomes**

Programme Objectives

- उद्दिष्टे:— 1. मराठी भाषेविषयी विद्यार्थ्यांमध्ये अभिरुची निर्माण करणे.
2. साहित्यलेखनाची व वाचनाची आवड निर्माण करणे.
3. विद्यार्थ्यांमध्ये असलेल्या सुप्त कलांगुणांना वाव देऊन त्यांच्यात साहित्यविषयक वृद्धिंगत करणे.
4. साहित्यातून मानवतावादी दृष्टिकोण रुजविणे.
5. साहित्यातून समाजातील प्र"नांना वाचा फोडून त्यांचे निराकरण करणे.

Course Outcomes

साहित्य सेतू

- ध्येय:— 1. भावी काळात विद्यार्थ्यांमधून साहित्यनिर्मिती करणे.
2. अध्यापन व अध्ययनात विद्यार्थ्यांना सहभागी करून संवाद"ील वातावरण निर्मिती करणे.
3. विभागात विविध उपक्रमांचे आयोजन करून मराठी भाषेचा दर्जा वाढविणे.
4. विद्यार्थ्यांमध्ये सं"ोधनवृत्ती वृद्धिंगत करणे.
5. मराठी भाषेची प्रयोग"ाळा निर्माण करणे.

**Department of Chemistry
Course Outcomes (COs)**

Course Name: B. Sc.

Year/Semester: First/ Second

Subject: Chemistry

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
FY Paper -I Organic Chemistry (201)	201.1	<ul style="list-style-type: none">To make students understand different organic compounds and the concept structure and bonding in organic compounds.Understand the mechanism of organic reaction.

	201.2	<ul style="list-style-type: none"> Understand the concept of stereochemistry of organic compounds. To make the structure of Geometrical isomerism and conformational isomerism.
	201.3	<ul style="list-style-type: none"> Many of the daily used materials are organic compounds and majority of them are hydrocarbons therefore this topic makes the concept regarding their information
	201.4	<ul style="list-style-type: none"> Basic of the alkane and alkynes with respect to their chemical point of view. To understand the aromaticity of organic compounds.
F.Y. Pape-II Physical Chemistry (202)	202.1	<ul style="list-style-type: none"> To understand the thermodynamics of chemical reactions. Understand free energy functions like work function, Gibb's free energy etc.
	202.2	<ul style="list-style-type: none"> To understand the concept of phase equilibria. Statement of phase rule and term. Application of phase rule
	202.3	<ul style="list-style-type: none"> Understand the concept of nuclear chemistry and molecular structure
	202.4	<ul style="list-style-type: none"> To Understand the concept of chemical kinetics and theories of chemical kinetics.
F.Y. Chemistry Practical course	203	<ul style="list-style-type: none"> Verify theoretical principles experimentally Interpret the experimental data Improve analytical skills Correlate the theory and experiments and understand their importance

**Department of Physics
Course Outcomes (COs)**

Course Name: B. Sc.

Year/Semester: First/Second

Subject: Physics

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
Paper 1: Oscillations, Kinetic theory of gases and Thermodynamics (201)	201.1	<ul style="list-style-type: none"> To understand the concept of linear and angular S.H.M., Damped harmonic oscillator
	201.2	<ul style="list-style-type: none"> To understand the concept of Forced oscillation with one degree of freedom and kinetic theory of gasses.
	201.3	<ul style="list-style-type: none"> To understand the Transport phenomenon in gases, Zeroth and First law of thermodynamics and Carnot's

		Theorem
	201.4	<ul style="list-style-type: none"> To understand second and third law of thermodynamics and Maxwell's general relationship and its applications
Paper 2: Gravitation, Astrophysics, Magnetism and Magnetostatics (202)	202.1	<ul style="list-style-type: none"> To understand Newton's laws of gravitation and the concept of Gravitational self-energy of the galaxy
	202.2	<ul style="list-style-type: none"> Know the constituents of universe (Solar system, Stars, Galaxies) and some physical aspects of universe
	202.3	<ul style="list-style-type: none"> To understand the concepts of Diamagnetism, Paramagnetism and Ferromagnetism and their applications
	202.4	<ul style="list-style-type: none"> To understand the Concept of magnetic field and to study various laws of magneto static and their applications.
Physics Practical (203)	203	<ul style="list-style-type: none"> Apply and demonstrate the theoretical concepts of Physics and to develop scientific attitude.

Department of Mathematics
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: First/ Second

Subject: Mathematics

After successful completion of three-year degree programme in **Mathematics** students should be able to;

Paper	CO	Outcomes
FY Paper-I 201 Geometry, Differential and Difference Equations	201.1	Understand the concept of Solid Geometry
	202.2	Identify and solve the problems on Differential equations of first order
	203.3	Understand the Higher order linear differential equations with constant coefficient
	204.4	Understand the basic concept of Difference equation
FY Paper-II 202	202.1	Students learn the concept of Vector differentiation and Line Integral
	202.2	Learn the evaluation of area by double Integral
	202.3	Apply integration to evaluate over surface and volume
	202.4	Evaluate Improper Integrals also study the gamma and Beta functions

Department of Zoology
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: First/Second

Subject: Zoology

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
FY Paper -I Life and Diversity of Animals – Nonchordates (Arthropoda to	201.1	To understand the, Arthropoda : General characters and classification up to classes, Cockroach : Mouth parts, digestive system and reproductive system, Insects as Vectors : Mosquito, Housefly, Sandfly, Tse-Tse fly, Study of crustacean larvae : Nauplius, Zoea and Megalopa; Social behavior in honey bees

Hemichordata) (201)	201.2	To understand the Mollusca : General characters and classification up to classes, <i>Pila</i> : Morphology, digestive, respiratory and reproductive system, Pearl formation in Mollusca, Molluscan larvae : Glochidium and Veliger
	201.3	To understand the Echinodermata : General characters and classification up to classes, <i>Asterias</i> : External features and digestive system, Water vascular system and locomotion in Starfish, Echinoderm larvae : Bipinnaria and Auricularia
	201.4	To understand Hemichordata : General characters and phylogeny, <i>Balanoglossus</i> : External features and digestive system, Reproduction in <i>Balanoglossus</i> , Tornaria larva, Affinities of <i>Balanoglossus</i>
F.Y. Paper-II Cell Biology (202)	202.1	To understand the Ultrastructure of prokaryotic and eukaryotic cell, Plasma membrane: Structure- Fluid Mosaic Model and functions, Endoplasmic reticulum: Types, ultrastructure and functions, Golgi complex: Ultrastructure and functions
	202.2	To understand Ultrastructure of mitochondria, Oxidative phosphorylation – Glycolysis and Krebs's cycle, Electron Transport Chain and terminal oxidation, Lysosome: Structure, polymorphism and functions
	202.3	To understand the Nucleus: Ultrastructure of nuclear membrane, Structure and functions of nucleolus, Chromosome: Structure and types, structure of nucleosome, Giant chromosomes: Lamp-brush and polytene chromosome
	202.4	To understand the Ribosome: Structure, types, Lake's model and functions, Somatic cell division: Cell cycle and Mitosis, Meiosis (different phases and significance), synaptonemal complex, Cellular ageing and cell death, Elementary idea of cancer and its causative agents
F.Y. Zoology Practical course	203	<ul style="list-style-type: none"> • Verify theoretical principles experimentally • Interpret the experimental data • Improve analytical skills • Correlate the theory and experiments and understand their importance

Department of Botany
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: First/Second

Subject: Botany

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
FY Paper -I Paleobotany, Pteridophytes, Gymnosperms and Soil Analysis (201)	201.1	<ul style="list-style-type: none"> • To make students understand fossils, Pseudofossils, and its importance. • Knowledge about types of fossils. • Details of Geological time scale. • Differentiation among the types of fossil.

	201.2	<ul style="list-style-type: none"> • Study the general characteristics of Pteridophytes and its classification. • Life history of <i>Selaginella</i>. And <i>Equisetum</i>.
	201.3	<ul style="list-style-type: none"> • Classify the Gymnosperms, its characteristics and economic importance. • Understand the fossil gymnosperm. • Study the life cycle of <i>Cycas</i> and <i>Pinus</i>
	201.4	<ul style="list-style-type: none"> • Skill development and soil analysis. • Identification of types of soil on the basis of its color and texture. • Study the physical properties of soil. • Understand the pH of soil and nitrogen availability in it.
F.Y. Pape-II Morphology of Angiosperms and Floriculture (202)	202.1	<ul style="list-style-type: none"> • Study the morphological characteristics of plants. • Identification of morphological characters of plants. • Study the modification occur in root, stem and leaf.
	202.2	<ul style="list-style-type: none"> • Study the reproductive morphology. • Study the types of inflorescence. • Study the calyx, corolla and Androecium.
	202.3	<ul style="list-style-type: none"> • Understand the structure of gynoecium. • Study the fruit and its types.
	202.4	<ul style="list-style-type: none"> • Develop the skills of floriculture and cultivation • Method of cultivation.
F.Y. Botany Practical course	203	<ul style="list-style-type: none"> • Study of different root and stem modification and branching patterns. • Study the types of leaf and its phyllotaxy, venation and modification. • Understand the flower structure and position of calyx, corolla, androecim and gynoecium.

Semester-III
Department of Chemistry
COURSE OUTCOMES (COs)

Course Name: B. Sc.

Year/Semester: Second/Third

Subject: Chemistry

After the successful completion of the course, students will be able to-

Paper	CO	Outcomes
S.Y Paper-I Inorganic	301.1	<ul style="list-style-type: none"> • Understand the concept of molecular orbital theory and VSEPR theory.
	301.2	<ul style="list-style-type: none"> • Understand the properties of d and f block

Chemistry (301)		elements.
	301.3	<ul style="list-style-type: none"> • Understand the role of nonaqueous solvents. • Understand concept of errors and evaluation in chemical analysis.
	301.4	<ul style="list-style-type: none"> • Understand the concept of chemistry of Lanthanides and Actinides series.
S.Y. Paper-II Organic Chemistry (302)	302.1	<ul style="list-style-type: none"> • Understand the structure and chemical bonding in aryl, alkyl halides, and aldehydes.
	302.2	<ul style="list-style-type: none"> • Understand the structure and chemical bonding in alcohols and phenols.
	302.3	<ul style="list-style-type: none"> • Understand the nomenclature, structure of the carbonyl group, synthesis of aldehydes and ketones
	302.4	<ul style="list-style-type: none"> • Understand chemical reaction of carboxylic acids and its derivatives.
S.Y. Chemistry Practical Course	303	<ul style="list-style-type: none"> • Verify theoretical principles experimentally • Interpret the experimental data • Improve analytical skills • Correlate the theory and experiments and understand their importance

Department of Physics
COURSE OUTCOMES (COs)

Course Name: B. Sc.

Year/Semester: Second/Third

Subject: Physics

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
Paper 1: Sound Waves, Applied Acoustic, Ultrasonic and Power Supply (301)	301.1	<ul style="list-style-type: none"> • Understand the concept of group and phase velocities, formation of standing waves and diagrammatic introduction of human ear and its responses.
	301.2	<ul style="list-style-type: none"> • Understand the working of transducers and their characteristics and the concept of acoustic and its applications.
	301.3	<ul style="list-style-type: none"> • Understand the production and applications of ultrasonic waves.
	301.4	<ul style="list-style-type: none"> • Understand the concept of voltage regulation and working of the half, full and bridge rectifier.
Paper 2: Physical Optics and Electromagnetic	302.1	<ul style="list-style-type: none"> • Understand the concept of interference of light through thin film • Apply the concept of interference of light through thin

Waves (302)		film in wavelength determination.
	302.2	<ul style="list-style-type: none"> Understand the concept of diffraction, Resolving Power of grating and Rayleigh's criterion for resolution.
	302.3	<ul style="list-style-type: none"> Understand the concept of polarization and double refraction
	302.4	<ul style="list-style-type: none"> Understand the origin and characteristics of EM waves, Physical significance of Maxwell's equations, Characteristics impedance of dielectric and Poynting theorem.
Physics Practical (303)	303	<ul style="list-style-type: none"> Apply and demonstrate the theoretical concepts of Physics and to develop scientific attitude.

Department of Mathematics
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Second/Third

Subject: Mathematics

After successful completion of three-year degree programme in Mathematics, students should be able to;

Paper	CO	Outcomes
SY Paper-I 301 Advanced Calculus, Sequences & Series	301.1	Students understand Mean Value theorem
	301.2	Learn about an envelope of a family of curves in the plane and study the Langranges Multiplier method
	301.3	Understand the concept of sequence
	301.4	Use Tests for convergence
SY Paper-II 302 Differential Equation and Group Homomorphism	302.1	Understand the concept of Special Functions(Bessels and Legendre's function)
	302.2	Students understand the concept of Laplace Transform and solve the problems
	302.3	Applications of Laplace Transform & Fourier Transform
	302.4	Students develop knowledge in group theory

Department of Zoology
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Second/Third

Subject: Zoology

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
S.Y Paper-I Life and Diversity of Animals - Chordates (Protochordata to Amphibia) (301)	301.1	Understand the Protochordata : General characters and classification up to order, <i>Herdmania</i> : Structure, digestive system, ascidian tadpole and retrogressive metamorphosis, <i>Amphioxus</i> : Structure, digestive system, circulatory system, sense organs and protonephridia, Agnatha : General characters of Cyclostomata (<i>Petromyzon</i> and <i>Myxine</i>)
	301.2	Understand the Pisces : Salient features of Chondrichthyes and Osteichthyes, Origin of paired fins in fishes, Migration and Accessory respiratory organs in fishes, Amphibia : General

		characters and classification up to order, Parental care and Neotony in Amphibia
	301.3	Understand the Gametogenesis and type of eggs, Fertilization of egg, Post fertilization development of fish, Types of scales of fishes, Development of placoid scales
	301.4	Understand the Frog Embryology - Cleavage , blastulation and gastrulation, Fate map, Morphogenetic movements in gastrula of frog, Development of respiratory organs in frog, Development of Aortic arches of frog
S.Y. Paper-II Organic Zoology (302)	302.1	Understand the Mendelian Principles- Dominant recessive relationships, Mendelian laws, Interaction of genes- Epistasis - dominant and recessive, codominance, incomplete dominance, Quantitative genetics – Polygenic traits, inbreeding and outbreeding, hybrid vigor, Extracellular genome – Presence and functions of mitochondrial DNA, plasmids
	302.2	Understand the concept of Cytoplasmic inheritance- <i>Kappa</i> particles in <i>Paramecium</i> , CO ₂ sensitivity in <i>Drosophila</i> , milk factor in mice, Linkage and crossing over – Basic concepts of linkage, types and theories, Concepts of genes – Cistron , muton and recon, Genetic disorders in human beings – Haemoglobin disorders – Thalassemia and Sickle cell anemia. Metabolic disorder: Phenylketonurea
	302.3	Understand the concept of Sex determination – ZZ, XY, XO, ZW pattern, Sex determination in <i>Drosophila</i> – Genic balance theory, Environmental sex determination in <i>Bonellia</i> , Chromosomal aberrations: addition, deletion, duplication and inversion, Gene mutations- Spontaneous and induced mutations, mutagenic agents, Disorders related to chromosomal number- Turner syndrome, Klinefelter syndrome and Down syndrome
	302.4	Understand the Lethal genes – Concepts and consequences, Population genetics: Basic concepts in population genetics, Hardy Weinberg equilibrium and its significance, Genetic counseling – Introduction , purpose, hereditary diseases and disorders, Applied genetics - DNA fingerprinting , amniocentesis, sperm banks, karyotyping
S.Y. Zoology Practical Course	303	<ul style="list-style-type: none"> • Verify theoretical principles experimentally • Interpret the experimental data • Improve analytical skills • Correlate the theory and experiments and understand their importance

**Department of Botany
Course Outcomes (COs)**

Course Name: B. Sc.

Year/Semester: Second/Third

Subject: Botany

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
S.Y	301.1	<ul style="list-style-type: none"> • Understand the study of angiosperms, Fossil

Paper-I Botany (301)		angiosperms, Angiosperms taxonomy. <ul style="list-style-type: none"> • Understand the nomenclature. • Study the trends in taxonomy.
	301.2	<ul style="list-style-type: none"> • Understand the classification system of Bentham and Hooker, Engler and Prantle.
	301.3	<ul style="list-style-type: none"> • Study the types of pollination and its significance • Study the structure of anther, pollen grain and male gametophyte development. • Study the types of ovules and female gametophyte. • Understand the fertilization process.
	301.4	<ul style="list-style-type: none"> • Study the skills of landscaping and gardening.
S.Y. Paper-II Angiosperm anatomy and Horticulture (302)	302.1	<ul style="list-style-type: none"> • Understand anatomical features of plants and its organs. • Study the tissue its types and functions.
	302.2	<ul style="list-style-type: none"> • Study the primary and secondary growth in stem and root.
	302.3	<ul style="list-style-type: none"> • Study the periderm growth rings, sap heartwood, leaf anatomy. • Study the Senescence and Abscission.
	302.4	<ul style="list-style-type: none"> • Study the techniques of horticulture, methods of propagation. • Learn the technique of bonsai preparation.
S.Y. Botany Practical Course	303	<ul style="list-style-type: none"> • Study the simplest and complex tissue from permanent micro-preparation. • Identification of types of vascular bundle. • Anatomy of Dicot and Monocot stem with temporary or double stained. • Study the internal structure of dicot and monocot leaf.

SEMESTER IV

Department of Chemistry Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Second/Fourth

Subject: Chemistry

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
S.Y. Paper-I Inorganic Chemistry (401)	401.1	<ul style="list-style-type: none"> • Understand the properties of coordination compounds. Chelates: classification and their application and valence bond theory of complexes.
	401.2	<ul style="list-style-type: none"> • Understand the concept of isomerism in coordination compounds. Concept of oxidation and reduction and balancing of redox reaction.
	401.3	<ul style="list-style-type: none"> • Understand the concept of colorimetry and spectrophotometry. • Understand the concept of separation technique like chromatography ion exchange and solvent

		extraction.
	401.4	<ul style="list-style-type: none"> Understand the concept of inorganic polymers.
S.Y. Paper-II Physical Chemistry (402)	402.1	<ul style="list-style-type: none"> Understand solid state and their classification and their laws. To understand the concept of determination of crystal structure.
	402.2	<ul style="list-style-type: none"> Understand electrochemistry of reversible and irreversible cells. Understand the concept of electrical transport and transport number.
	402.3	<ul style="list-style-type: none"> Use spectroscopy for chemical analysis. Understand types of spectroscopy.
	402.4	<ul style="list-style-type: none"> Understand the concept of quantum chemistry and wave function.
S.Y. Chemistry practical Course	403	<ul style="list-style-type: none"> Verify theoretical principles experimentally Interpret the experimental data Improve analytical skills Correlate the theory and experiments and understand their importance

**Department of Physics
Course Outcomes (COs)**

Course Name: B. Sc.

Year/Semester: Second/Fourth

Subject: Physics

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
Paper 1: Solid State Physics, X-ray and Laser (401)	401.1	<ul style="list-style-type: none"> Understand the basic concept of crystallography, find various lattice parameters, find Miller Indices of the given plane and draw planes from the set of Miller Indices.
	401.2	<ul style="list-style-type: none"> Understand main feature of continuous X-ray spectra and Characteristics X-ray spectra, Apply Moseley's law to determine wavelength of X-ray.
	401.3	<ul style="list-style-type: none"> Understand the basic concept of solid state physics. Apply Bragg's law for wavelength determination and simple cubic structure determination. Calculate Miller indices of the given plane and identify the orientation of the plane from the given set of Miller indices.
	401.4	<ul style="list-style-type: none"> Understand the concepts of LASER emission. Understand the construction and working of various types of LASER.
Paper 2: Solid State Electronics, and	402.1	<ul style="list-style-type: none"> Understand the construction and working and characteristics of various solid state devices.
	402.2	<ul style="list-style-type: none"> Understand the construction and working and

Molecular Physics (402)		characteristics of various FETs.
	402.3	<ul style="list-style-type: none"> Understand the concept molecular physics.
	402.4	<ul style="list-style-type: none"> Understand and apply the Raman spectroscopy.
Physics Practical (403)	403	<ul style="list-style-type: none"> Apply and demonstrate the theoretical concepts of Physics and to develop scientific attitude.

Department of Mathematics
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Second/Fourth

Subject: Mathematics

After successful completion of three-year degree programme in Mathematics, students should be able to;

Paper	CO	Outcomes
SY Paper-I 401 Partial Differential Equations & Calculus of Variation	401.1	Understand the concept of ordinary Differential Equations in more than two variables
	401.2	Use the methods to solve the linear and nonlinear partial differential equations of first order
	401.3	Understand the concept of Higher Partial Differential Equations
	401.4	Find the distance between the curves and understand the concept of Eulers differential equation
SY Paper-II 402 Mechanics	402.1	Students learn about Coplanar Forces, Virtual Work and Catenary
	402.2	Understand the velocity, Acceleration and simple harmonic Motion
	402.3	Understand the concept of Lagranges Equations of motion
	402.4	Learn the problem of two bodies moving under the influence of a mutual central force

Department of Zoology
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Second/Fourth

Subject: Zoology

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
S.Y. Paper-I Life and Diversity of Animals – Chordates (Reptilia, Aves and Mammals) (401)	401.1	Understand the Reptilia- Classification based on temporal vacuities, Poison apparatus, biting mechanism , snake venom and its importance, Aves – Comparison of Ratitae and Caranitae, Flight adaptations and migration, Mammals – General characters of Prototheria, Metatheria and Eutheria
	401.2	Understand the Modern theories of evolution : Darwinism and Neo-Darwinism, Adaptations – Cursorial, Aquatic, Terrestrial, Fossorial and Volant, Introduction to genetic basis of evolution – Species Deme, Variation, Races in Man (Caucasoid, Negroid, Mongoloid and Australoid)
	401.3	Understand the Comparative account of aortic arches and heart in Reptiles, Birds and Mammals, Structure of hen's

		egg, Development of chick up to primitive streak stage, Development of extra embryonic membranes in chick and functions
	401.4	Understand the Frog Embryology - Cleavage , blastulation and gastrulation, Fate map, Morphogenetic movements in gastrula of frog, Development of respiratory organs in frog, Development of Aortic arches of frog
S.Y. Paper-II Molecular Biology and Immunology(402)	402.1	Understand the DNA: Structure of DNA, forms of DNA, properties of DNA, DNA as a genetic material, RNA: Structure of RNA, types of RNA, RNA as a genetic material, Prokaryotic and eukaryotic gene structure, Recombination in Bacteria: Bacterial transformation – Griffith’s experiment, Conjugation in bacteria, transduction
	402.2	Understand the concept DNA replication: Semiconservative model, Meselson Stahl experiments. Process of replication – origin of replication, concept of replication, directionality of replication, Genetic code: Characteristics of genetic code, Wobble hypothesis, Protein synthesis: Transcription mechanism – Initiation , elongation and termination of transcription. Translation – activation of amino acids, transfer of activated amino acids to tRNA, Initiation, elongation and termination of polypeptide chain; inhibitors of protein synthesis, Gene regulation models- Lac operon and tryptophan operon
	402.3	Understand the Concepts of immunity – Innate and acquired immunity, organs of the immune system, Antigen - Structure, diversity, functions and types of antigen, Antibody- Structure, types and functions, Antigen-antibody interaction – Precipitation and agglutination
	402.4	Understand the Types of immune response: B cell response (antibody mediated), T cell response (cell mediated), Complement system: Basic concepts of complement cascades, classical, alternative and MBL pathways, implications of complement system in immune defense, Cytokines- General account on cytokines, Cytokine related diseases, Autoimmunity and immunodeficiencies- Autoimmune diseases and their treatment, AIDS and other immunodeficiencies
S.Y. Zoology practical Course	403	<ul style="list-style-type: none"> • Verify theoretical principles experimentally • Interpret the experimental data • Improve analytical skills • Correlate the theory and experiments and understand their importance

**Department of Botany
Course Outcomes (COs)**

Course Name: B. Sc.

Year/Semester: Second/Fourth

Subject: Botany

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
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S.Y. Paper-I Cell biology, Plant Breeding, Evolution, and Technology (401)	401.1	<ul style="list-style-type: none"> • Understand the brief account of cell theory. Comparison between eukaryotic and prokaryotic cell. • Structure and function of cell wall, Endoplasmic reticulum, Golgi complex, plasma membrane, Ribosome and Vacuole.
	401.2	<ul style="list-style-type: none"> • Understand the structure and functions of chloroplast, Mitochondria and Nucleus. • Understand the chromosome morphology, Molecular organization of chromosomes. • Understand the sex chromosomes and cell division process.
	401.3	<ul style="list-style-type: none"> • Understand plant breeding, methods of plant breeding. • Understand the biostatistics and determine the Mean, Mode, Median. • Understand the evolution process.
	401.4	<ul style="list-style-type: none"> • Understand the seed development technology which is used to increase a commercial value of seeds.
S.Y. Paper-II (402)	402.1	<ul style="list-style-type: none"> • Understand the principle of Mendelism. • Understand the linkage and crossing over process.
	402.2	<ul style="list-style-type: none"> • Understand the Mutation, chromosomal aberrations and variation in chromosome number. • Understand the DNA damage and repair process.
	402.3	<ul style="list-style-type: none"> • Study the concept of DNA and RNA. • Understand the concept of gene, genetic code. • Understand the process of protein synthesis and regulation of gene interaction.
	402.4	<ul style="list-style-type: none"> • Study the skill development. • Develop the skills related with plant nursery. • Understand the nursery management techniques.
S.Y. Botany practical Course	403	<ul style="list-style-type: none"> • Study the Mendel's law of segregation with help of color beads. • Prove the Mendel's law of independent assortment. • Study the different method of vegetative propagation. • Study the method of soil sterilization for plant nursery.

SEMESTER V

Department of Chemistry Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Third/Fifth

Subject: Chemistry

After the successful completion of the course students will be able to-

Paper	CO	Outcome
T.Y.	501.1	<ul style="list-style-type: none"> • Understand the concept of organic compounds

Paper-I Organic Chemistry (501)		of nitrogen and amines.
	501.2	<ul style="list-style-type: none"> Understand heterocyclic compounds and their structure.
	501.3	<ul style="list-style-type: none"> Understand quantitative analysis: Estimation of carbon, hydrogen and nitrogen etc. Understand reaction and structure of organometallic compounds.
	501.4	<ul style="list-style-type: none"> To study Spectroscopy. To understand Electromagnetic and Infrared absorption spectroscopy
T.Y. Paper-II Physical Chemistry (502)	502.1	<ul style="list-style-type: none"> Understand electrochemistry and various types of cells. Understand types of reversible electrodes.
	502.2	<ul style="list-style-type: none"> Understand quantum chemistry and molecular orbital theory.
	502.3	<ul style="list-style-type: none"> Understand the concept of Photochemistry. To study Raman Spectroscopy
	502.4	<ul style="list-style-type: none"> To understand colligative properties and macromolecules.
T.Y. Chemistry Practical Course	503	<ul style="list-style-type: none"> Verify theoretical principles experimentally Interpret the experimental data Improve analytical skills Correlate the theory and experiments and understand their importance

**Department of Physics
Course Outcomes (COs)**

Course Name: B. Sc.

Year/Semester: Third/Fifth

Subject: Physics

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
Paper 1: Atomic Physics, Free Electron Theory and Statistical Physics (501)	501.1	<ul style="list-style-type: none"> Understand Vector atom Model, the concept of space quantization, Zeeman Effect and L-S and J-J coupling.
	501.2	<ul style="list-style-type: none"> Apply free electron theory and band theory of solid to classify solids as conductor, semiconductor and insulator.
	501.3	<ul style="list-style-type: none"> Understand and apply Maxwell-Boltzmann statistics
	501.4	<ul style="list-style-type: none"> Understand and apply Bose-Einstein statistics and Fermi-Dirac statistics.
Paper 2: Quantum Mechanics, Nanomaterials and Nanotechnology (502)	502.1	<ul style="list-style-type: none"> Understand the basics of quantum mechanics and apply it to explain the phenomena like black body radiation and Compton Effect.
	502.2	<ul style="list-style-type: none"> Understand and apply Schrodinger's equation to free particle in a one and three dimension.

	502.3	<ul style="list-style-type: none"> Understand the basics of nanotechnology.
	502.4	<ul style="list-style-type: none"> Understand the synthesis and characterization techniques of nano materials.
Physics Practical (503)	503	<ul style="list-style-type: none"> Apply and demonstrate the theoretical concepts of Physics and to develop scientific attitude.

Department of Mathematics

Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Third/Fifth

Subject: Mathematics

After successful completion of three year degree program in Mathematics a Student should be able to;

Paper	CO	Outcomes
TY Paper-I 501 Analysis	501.1	Understand the concept of Fourier series
	501.2	Understand the concept of Riemann-Stieltjes integral
	501.3	Understand the concept of Analytics Functions
	501.4	Students learn about Mobius Transformation
TY Paper-II 502 Metric spaces, Complex integration & Algebra	502.1	Students deal with the definition, properties and examples of countable and uncountable sets and understand the metric space
	502.2	Understand the concept of Completeness, Compactness and Connectedness
	502.3	Understand the concept of Ring Analyze and demonstrate examples of ideals and quotient rings
	502.4	Understand the basic concept of Complex Integration Evaluate integrals along a path - directly from the definition and also via the Fundamental Theorem of Contour Integration and Cauchy's Theorem

Department of Zoology

Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Third/Fifth

Subject: Zoology

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
T.Y. Paper-I General Mammalian Physiology – I (501)	501.1	Understand the Enzymes – Distribution and chemical nature of enzymes, General properties of enzymes, Classification of enzymes, Factors affecting enzyme activity
	501.2	Understand the Structure and functions of digestive glands - (Salivary, Gastric, Intestinal, Liver and Pancreas), Gastrointestinal hormones, Digestion and absorption of proteins, carbohydrates and lipids, Vitamins- Fat soluble and water soluble vitamins; Sources, deficiency and diseases
	501.3	Understand the Respiratory pigments - Types , distribution and properties, Mechanism of Respiration, Transport of O ₂ and CO ₂ , Respiratory disorders and effects of smoking
	501.4	Understand the Composition and functions of blood, Blood clotting – Intrinsic and extrinsic factors, blood groups and Rh factor, Cardiac cycle, E.C.G. and Blood pressure

T.Y. Paper-II Physical Zoology (502)	502.1	Understand Site selection and construction, Pre stocking and post stocking management of nursery, rearing and stocking ponds, Breeding of fishes by bund and Chinese hatcheries. Induced breeding by hypophysetion. New generation drugs in induced breeding, Brief study of freshwater aquaculture system – Polyculture, cage culture, sewage fed fish culture, integrated fish farming, Fish products and byproducts, Fish preservation
	502.2	Understand the Prawn culture and Pearl culture, Fabrication and setting up of aquarium and its maintenance, Breeding of aquarium fishes – Live bearers and egg layers, Diseases caused by fungi, bacteria, protozoa and helminthes
	502.3	Understand the concept Chemical control : Insecticides - Pyrethroids, carbomate and HCN – mode of action, merits and demerits, Biological control – Biological agents – predators and parasites; merits and demerits, Crop pest: Life cycle, damage and control of Cotton spotted boll worm - <i>Earias vitella</i> ,Stored grain pest- Rice Weevil, <i>Sitophilus oryzae</i> , Animal pest: Life cycle, damage and control of – House fly – <i>Musca nebulo</i> , Stable fly – <i>Stomoxys calcitrans</i>
	502.4	Understand the Sericulture- Types of Silkworm. Life cycle and rearing of mulberry silkworm, <i>Bombyx mori</i> , Life cycle and rearing of non mulberry silkworm (Tasar), <i>Antheraea mylitta</i> ; Brief idea of cocoon processing for silk fabric - cocoon boiling, reeling, rereeling, winding, doubling, twisting and weaving, Apiculture – Types of honey bees. Life cycle, culture, movable frame hive, bee product and its economic importance, Lac culture – Lac insect, <i>Laccifer lacca</i> - Life cycle, Lac processing, Lac products and Economic Importance
T.Y. Zoology Practical Course	503	<ul style="list-style-type: none"> • Verify theoretical principles experimentally • Interpret the experimental data • Improve analytical skills • Correlate the theory and experiments and understand their importance

**Department of Botany
Course Outcomes (COs)**

Course Name: B. Sc.

Year/Semester: Third/Fifth

Subject: Botany

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
T.Y. Paper-I Plant physiology, Mineral Nutrition and Hydroponics (501)	501.1	<ul style="list-style-type: none"> • Understand water relation and its significance. • Understand the Osmosis, Diffusion, Osmotic Pressure. • Understand the ascent of sap. • Understand the transpiration, phloem transport and mineral uptake.
	501.2	<ul style="list-style-type: none"> • Understand the photosynthesis process, photosynthetic pigments. • Understand the light and dark reaction of photosynthesis. • Understand the respiration and its mechanism. • Understand the fermentation process.
	501.3	<ul style="list-style-type: none"> • Understand the nitrogen fixation by symbiotic and

		<p>Non-Symbiotic mechanism.</p> <ul style="list-style-type: none"> • Study the plant movements and photoperiodism. • Study the circadian rhythms and Biological Clock.
	501.4	<ul style="list-style-type: none"> • Understand the mineral nutrition, source and types. • Study the role and deficiency symptoms Macronutrients and Micronutrients. • Study the hydroponics, advantages and disadvantages of hydroponics.
T.Y. Paper-II Plant Ecology and Organic Farming (502)	502.1	<ul style="list-style-type: none"> • Understand the concept of Ecology. • Study the climatic, Edaphic and Physiographic factors.
	502.2	<ul style="list-style-type: none"> • Study the ecosystem, components of Ecosystem. • Understand the food chain, food web and ecological pyramids. • Study the Autecology and Synecology.
	502.3	<ul style="list-style-type: none"> • Understand the process of succession. • Study the plant adaptations. • Study the Biogeochemical cycles.
	502.4	<ul style="list-style-type: none"> • Develop the skills of organic farming. • Understand the methods of recycling of biodegradable kitchen, agriculture and industrial waste. • Study to prepare organic manure.
T.Y. Botany Practical Course	503	<ul style="list-style-type: none"> • Determining the Frequency, Density, and Abundance of community by Quadrant Method. • Determining the homogeneity of vegetation by Raunkier's frequency. • Study the frequency of herbaceous species in grassland to compare the frequency distribution with Raunkier's standard frequency diagram. • Study the soil profile of different locations near by area. • Study the salinity of different water samples.

SEMESTER VI

Department of Chemistry Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Third/Sixth

Subject: Chemistry

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
T.Y. Paper-I Inorganic Chemistry (601)	601.1	<ul style="list-style-type: none"> • Understand Metal ligand bonding in Transition Metal complexes. • Electronic spectra of Transition Metal Complexes.
	601.2	<ul style="list-style-type: none"> • Understand Magnetic Properties of Transition metal Complexes. • To study thermodynamic and kinetic aspect of metal complexes.
	601.3	<ul style="list-style-type: none"> • Understand organometallic chemistry. • Understand properties and structure of metal carbonyls.

	601.4	<ul style="list-style-type: none"> To study Bio-organic chemistry Understand the concept of s Hard and Soft acids and bases.
T.Y. Paper-II Organic Chemistry (602)	602.1	<ul style="list-style-type: none"> Understand NMR Spectroscopy
	602.2	<ul style="list-style-type: none"> Understand Organic Synthesis via Enolates. Carbohydrates: classification, reaction and mechanisms.
	602.3	<ul style="list-style-type: none"> Understand Amino acids, peptides and nucleic acids. To study Fats, oil and detergents.
	602.4	<ul style="list-style-type: none"> Understand synthetic dyes, synthetic drugs, synthetic polymer.
T.Y. Chemistry Practical Course	603	<ul style="list-style-type: none"> Verify theoretical principles experimentally Interpret the experimental data Improve analytical skills Correlate the theory and experiments and understand their importance

**Department of Physics
Course Outcomes (COs)**

Course Name: B. Sc.

Year/Semester: Third/Sixth

Subject: Physics

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
Paper 1: Relativity, Nuclear Physics and Bio Physics (601)	601.1	<ul style="list-style-type: none"> Understand the postulates of the special theory of relativity. Apply the concept of relativity to explain Length contraction, Time dilation, Velocity addition theorem, Variation of mass with velocity, Mass energy equivalence.
	601.2	<ul style="list-style-type: none"> Understand the concept of nuclear physics.
	601.3	<ul style="list-style-type: none"> Apply the concept of nuclear physics to explain various decay processes.
	601.4	<ul style="list-style-type: none"> Understand the Principle, Construction and working of different bio instruments.
Paper 2: Electronics, Fiber Optics, Communication and Digital Electronics (602)	602.1	<ul style="list-style-type: none"> Understand the operations and applications of operational amplifiers.
	602.2	<ul style="list-style-type: none"> Understand the various basic structures of optical fibers and basic concept involved in propagation of light waves through optical fiber.
	602.3	<ul style="list-style-type: none"> Understand the concept of amplitude modulation and frequency modulation.
	602.4	<ul style="list-style-type: none"> Understand various number systems. Construct the truth tables for various logic gates. Verify De Morgan's theorem
Physics Practical (603)	603	<ul style="list-style-type: none"> Apply and demonstrate the theoretical concepts of Physics and to develop scientific attitude.

Department of Mathematics
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Third/Sixth

Subject: Mathematics

After successful completion of three-year degree program in Mathematics, Students should be able to;

Paper	CO	Outcomes
TY Paper-I 601 Abstract Algebra	601.1	Understand the concept of Group Automorphism
	601.2	Understand definition and examples of vector spaces
	601.3	Learn about algebra of linear transformation
	601.4	Find range, rank, kernel and nullity of matrix and also study about Inner product spaces
TY Paper-II 602 Special Theory of Relativity	602.1	Study the Newtonian Mechanics and understand the concept special theory of relativity
	602.2	Learn the Lorentz transformation and consequences
	602.3	Understand the concept of Tensors and Space –Time structure
	602.4	Study the Mass Energy Equivalence, Energy momentum Tensor and Maxwell's Equation of Electromagnetic theory in Vacuum

Course Name: B. Sc.

Year/Semester: Third/Sixth

Subject: Zoology

After the successful completion of the course students will be able to-

Paper	CO	Outcomess
T.Y. Paper-I General Mammalian Physiology - II (601)	601.1	Understand the Types of neurons, E.M. structure of neuron, Conduction of nerve impulse, Ultrastructure of striated muscle, Sliding filament theory of muscle contraction, Properties of muscles (Twitch, Tetanus, Tonus, Summation, All or None Principle, Muscle fatigue)
	601.2	Understand Structure of uriniferous tubule, Mechanism of urine formation, Counter – current mechanism, Normal and abnormal constituents of urine; Elementary idea of dialysis
	601.3	Understand the Structure and functions of pituitary gland, Structure and functions of thyroid and parathyroid gland, Structure and functions of adrenal gland, Structure and functions of pineal gland
	601.4	Understand the Oestrous and menstrual cycle, Male and female sex hormones, Causes of infertility in male and female, Contraceptives – Mechanical and hormonal ; <i>In-vitro</i> fertilization
T.Y. Paper-II Applied Zoology –II (Biotechniques,	602.1	Understand the Concepts of sterilization: Filtration, autoclaving, dry heat sterilization, wet sterilization and radiation, Separation of biomolecules: Centrifugation (Sedimentation, density gradient); Chromatography (Elementary idea of thin layer, gel filtration and ion exchange - Principles and applications), Electrophoresis:

Microtechnique, Biotechnology, Bioinformatics and Biostatistics) (602)		Agarose gel electrophoresis, SDS-PAGE, Principles of colorimeter and spectrophotometers
	602.2	Understand the concept of Fixation, dehydration, clearing, embedding & section cutting, Difficulties encountered during section cutting (causes and remedies), Double staining with Haematoxylin and Eosin, Histochemical staining techniques for carbohydrates (Periodic acid schiff), proteins (Mercury-bromophenol blue) and lipids (Sudan black-B)
	602.3	Understand the Basic concepts in recombinant DNA technology, Gene isolation method- Shotgun cloning, Isolation of gene- DNA manipulation enzymes: Nucleases, ligases, polymerases, Basic concepts of cloning vectors and splicing : Insertion of DNA and ligation using blunt ends, cohesive ends, Cloning vectors, Application of biotechnology: Insulin and vaccine production
	602.4	Understand the Bioinformatics: Definition, Basic concepts in bioinformatics, importance and role of bioinformatics in life sciences, Bioinformatics databases- introduction, types of databases, Nucleotide sequence databases, Elementary idea of protein databases, Biostatistics – Tabulation of data, presentation of data, sampling errors, mean, mode, median, probability, standard error and standard deviation
T.Y. Zoology Practical Course	603	<ul style="list-style-type: none"> • Verify theoretical principles experimentally • Interpret the experimental data • Improve analytical skills • Correlate the theory and experiments and understand their importance

Department of Botany
Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Third/Sixth

Subject: Botany

After the successful completion of the course students will be able to-

Paper	CO	Outcomes
Biochemistry, biotechnology And herbal technology Paper-I (601)	601.1	<ul style="list-style-type: none"> • Study the lipids, role of fatty acids, oils and waxes. • Study the enzymes its classification and nomenclature. • Study the basic concepts of Enzymology. • Study the enzyme inhibitors.
	601.2	<ul style="list-style-type: none"> • Study the tissue culture techniques. • Study the process of sterilization. • Study the preparation of culture media.
	601.3	<ul style="list-style-type: none"> • Understand the techniques of genetic engineering. • Study the process of DNA library. • Study the types of DNA library. • Study the Agrobacteria mediated gene transfer.
	601.4	<ul style="list-style-type: none"> • Develop the skills of herbal technology. • Study the methods of Cultivation, Harvesting,

		<ul style="list-style-type: none"> • Understand the technique of dye yielding of herbal plants. • Study the used of herbs in cosmetics.
T.Y. Paper-II Phytogeography, Utilization of Plants, Techniques and Pharmacognosy (602)	602.1	<ul style="list-style-type: none"> • Study the phytogeography, climatic regions of India. • Study the Environmental pollution. • Study the Renewable and Non Renewable sources. • Understand the conservation strategies.
	602.2	<ul style="list-style-type: none"> • Study the morphology, utilization and important chemicals constituents of the plants. • Understand the concept of Ethnobotany.
	602.3	<ul style="list-style-type: none"> • Study the principle, types and application of microscope. • Study the various techniques.
	602.4	<ul style="list-style-type: none"> • Understand synthetic dyes, synthetic drugs, synthetic polymer. • Study the pharmacological plants
T.Y. Botany Practical Course	603	<ul style="list-style-type: none"> • Find out the level of noise pollution of different nearby area with the help of decimeter and compare it with tolerance limit • Study the morphology, utilization, and important chemical constituents of plants. • Study the Ethnobotanical importance of plants. • Study the different adulterants used with reference to drug adulteration.

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Principal
 Bhiwapur Mahavidyalaya
 Bhiwapur, Dist.-Nagpur

Backward Class Youth Relief Committee's

Bhiwapur Mahavidyalaya, Bhiwapur

Dist - Nagpur, Maharashtra 441201

Criteria - 2

Teaching- Learning and Evaluation

2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website.

Academic Session 2022-23



**Programme Outcomes
Course Outcomes**

Academic Session-2022-2023

**Faculty of Bachelor of Arts, Bachelor
of Commerce and Bachelor of Science**

Bhiwapur Mahavidyalaya, Bhiwapur
Course Outcomes and Programme Outcomes

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Department of Science
(Physics, Chemistry, Mathematics, Zoology and Botany)

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Programme Outcomes and Course Outcomes

Faculty of Arts

Academic Session-2022-2023

Sr. No.	Subject	Programme Outcomes	Course Outcomes
First - Semester			
1	English	<p>On the completion of the Course:</p> <p>Students will be able to attempt different types of written communication utilizing the language study and vocabulary.</p>	<p>The students will be able:</p> <ol style="list-style-type: none">1. To respond to the texts and thereby improving in their linguistic and Communication Skills.2. To get inspired from biographies and broaden their horizon.3. To develop drafting skills, job applications and resumes.4. To understand the structure of sentences through prescribed grammar
2	Marathi	<p>१ मराठी भाषेच्या समृद्धीची जाणीव करून देणे</p> <p>२ भाषेच्या व साहित्याच्या अभ्यासाद्वारे भारतीय सांस्कृती आणि इतिहासाची ओळख करून देणे-</p> <p>३ साहित्यप्रकारांची ओळख करून देणे-</p> <p>४ विद्यार्थ्यांची भाषिक कौशल्ये विकसित करणे व त्यांना रोजगाराभिमुख बनविणे</p> <p>५ नैतिक मूल्ये रुजविणे</p>	<p>१a- विद्यार्थी भाषेचे सुयोग्य उपयोजन करू शकेल-</p> <p>२a- पत्रलेखन,साराशलेखन यासारखी भाषिक कौशल्ये व कार्यालयीन भाषा तसेच जीवनव्यवहारात उपयुक्त ठरतील-</p> <p>३- एकाग्रतेने वाचन करण्याची सवय लागेल-</p> <p>४- भाषिक संवाद व्यवहारामुळे विद्यार्थ्यांचा सामाजिक व वैयक्तिक विकास होईल-</p> <p>५- अचूक आणि अविलंब विचार करण्याची क्षमता निर्माण होईल-</p>

			<p>६-विचारांचा नेमका वेध घेण्याची क्षमता निर्माण होईल</p> <p>७- अभ्यासक्रमाची उद्दिष्टे साध्य होतील-</p>
3	Political Science	<p>On the completion of the Course:</p> <ol style="list-style-type: none"> 1. Familiarized with the different dimensions and the contemporary relevance of different concepts and theories, which would be applied in studying other papers 2. Shaped as citizens who are aware of the ideals and philosophies of the Indian Constitution, Constitutional rights and duties, governmental institutions, Centre - state relations and electoral politics in India. 3. Made conscious of the social, cultural, economic and political environment that affect politics in India, at the National as well as regional level. 	<p>The students will be able:</p> <ol style="list-style-type: none"> 1. To understand the basic concept and ideological orientations of political science discipline. 2. To discuss the major theories and concepts of political science and its subfields.
4	Economics	<p>On the completion of the course:</p> <p>Economics subject enables the learners to build up a professional carrier as economists, financial advisors, economics planners and policy makers. It prepares them to cope up with the stress and strain involved in the process of economic development. Department supports the education and training of students, teachers and research in economics.</p>	<ol style="list-style-type: none"> 1. After completing this course, the students will be able to Learn the basic principles of microeconomic theory. 2. Students shall be able to understand efficiency and equity of consumption and production as well as cost and firms' policy in market behavior. 3. Students will also be able to analyze demand by households and supply of goods and services by business firms.

			<ol style="list-style-type: none"> 4. Students will also be able to understand interaction of demand and supply in various market structures. 5. Lastly Students will gain and develop the skill to think practically in to economic domain like economists.
5	English Literature	<p>On completion of the Course:</p> <p>Students will be adept in explication of the studied text.</p>	<p>The students will be able to:</p> <ol style="list-style-type: none"> 1. To explain the historical socio-economic and cultural significance of the 16th Century. 2. To understand the characters in lieu of the background study made available.
6	Sociology	<p>Think critically by exercising sociological imagination</p>	<p>The students will be able to:</p> <ol style="list-style-type: none"> 1. To know in details about culture and society 2. To know in details about Social Structure 3. To know in details about Social Stratification. 4. To aware of Concept of Gender.
7	History	<p>Programme Outcomes: After successful completion of three-year degree Programme in History a student's able to know:</p> <ol style="list-style-type: none"> 1. History has an unprecedented significance in human life 2. The study of history leads to socio-political awareness 3. Learn about world events 4. The study of history is important for competitive examination 5. Conversational skills come and understand the importance of human society 6. Studying history inspires patriotism 	<p>Course Outcomes: Outcome completion of the course students should be able to:</p> <ol style="list-style-type: none"> 1. Students understood Harappan culture and Vedic culture 2. I got detailed information about Jainism-Buddhism 3. Understood the value of slavery and sultanate 4. Understood information about Devotional movement and sufi sect.

		7. The study of history reveals the National-International relations of the country.	
8	Marathi Literature	<p>1 मराठी वाङ्मय प्रकारांची ओळख करून देणे-</p> <p>2-आत्मचरित्र या वाङ्मय प्रकाराचे स्वरूप व वैशिष्ट्ये यांचे आकलन करून देणे-</p> <p>3-माझी जन्मठेप या वि-दा- सावरकरांच्या आत्मचरित्राचा आढावा घेणे-</p> <p>4-साहित्यातून व्यक्त विषेशांची माहिती देणे-</p>	<p>1- मराठीतील कविता] कथा] नाटक] चरित्र- आत्मचरित्र या वाङ्मय प्रकारांची ओळख विद्यार्थ्यांना झाली-</p> <p>2- आत्मचरित्र या वाङ्मय प्रकाराचे स्वरूप व वैशिष्ट्ये व घटकांची माहिती विद्यार्थ्यांना मिळाली-</p> <p>3- वि- दा- सावरकरांच्या जिवनाचा वृत्तांत माझी जन्मठेप या आत्मचरित्रातून समजून आला-</p>
9	Ambedkar Thought		<p>Paper: life and mission of Dr. Ambedkar</p> <ul style="list-style-type: none"> • Students will be able to learn about Dr. Ambedkar life. • Students will be able to learn Caste in India. • Students will be able to understand the concepts of untouchability. • Students will be able to learn constitutional values
Second- Semester			
10	English	<p>On the completion of the course:</p> <p>Students will be able to apply the grammar, vocabulary to respond to the questions and in daily lives and will espouse the values through the biographies of people who by their hard braved life and succeeded.</p>	<p>The students will be able:</p> <p>1.To espouse important values and principles of life through the texts.</p> <p>2.To develop drafting skills: advertisement Writing Meeting Agenda, Notice and Minutes.</p> <p>3.To use verbs and tenses in the given contexts.</p> <p>4.To comprehend vocabulary and use it in their daily lives.</p>

11	Marathi	<p>१ मराठी भाषेच्या समृद्धीची जाणीव करून देणे</p> <p>२ भाषेच्या व साहित्याच्या अभ्यासाद्वारे भारतीय सांस्कृती आणि इतिहासाची ओळख करून देणे-</p> <p>३ साहित्यप्रकारांची ओळख करून देणे-</p> <p>४ विद्यार्थ्यांची भाषिक कौशल्ये विकसित करणे व त्यांना रोजगाराभिमुख बनविणे</p> <p>५ नैतिक मूल्ये रुजविणे</p>	<p>१- विद्यार्थी भाषेचे सुयोग्य उपयोजन करू शकेल-</p> <p>२ -पत्रलेखन,साराशलेखन यासारखी भाषिक कौशल्ये व कार्यालयीन भाषा तसेच जीवनव्यवहारात उपयुक्त ठरतील-</p> <p>३- एकाग्रतेने वाचन करण्याची सवय लागेल-</p> <p>४- भाषिक संवाद व्यवहारामुळे विद्यार्थ्यांचा सामाजिक व वैयक्तिक विकास होईल-</p> <p>५- अचूक आणि अविलंब विचार करण्याची क्षमता निर्माण होईल-</p> <p>६-विचारांचा नेमका वेध घेण्याची क्षमता निर्माण होईल</p> <p>७- अभ्यासक्रमाची उद्दिष्टे साध्य होतील-</p>
12	Political Science		<p>The students will be able:</p> <ol style="list-style-type: none"> 1. To understand the contribution of the main traditions of Western Political Thinkers to Political Thought 2. To evaluate the Renaissance; Political thought of Reformation and Plato, Aristotle, J. S. Mill and Karl Marx.
13	Economics	<p>On the completion of the course:</p> <p>Economics subject enables the learners to build up a professional carrier as economists, financial advisors, economics planners and policy makers. It prepares them to cope up with the stress and strain involved in the process of economic development. Department supports the education and training of students, teachers and research in economics.</p>	<ol style="list-style-type: none"> 1. After completing this course, the students will be able to Learn various concepts of GDP and relationship between National Income and welfare of people. 2. Students will further be able to understand factors determine domestic productivity, employment level of prices and interest rates. 3. Students will be able to apply basic concepts to

			<p>analyses the situations of inflation and business cycles.</p> <p>4. Students will be able to evaluate the role of monetary and fiscal policy of Government to fight inflation or to stabilize business cycles.</p> <p>5. Lastly, Students will have ability to understand the relationship between consumption function and investment in economy and shall be able to give suggestion for promoting investment.</p>
14	English Literature	On Completion of the Course: Students will be improved in their critical and creative skills.	<p>1. To summarize the situation and characters present in poems, prose and plays.</p> <p>2. To interpret and apply all the literary terms taught.</p>
15	Sociology		<p>1- To know in detail about Socialization</p> <p>2- To know in detail about Social Change</p> <p>3- To know in detail about Social Movements.</p> <p>4- To know in detail about Social Deviation and Social Control.</p>
16	History		<p>1. Understood how the Mughal power was established in India</p> <p>2. how the Mughal power was established in India.</p> <p>3. Learned information about Sher Shah Suri and Mughal administration</p> <p>4. I got information about Chhatrapati Shivaji and Mughal relationship</p>

			5. Understood the Panipat Third War and the arrival of the British.
17	Marathi Literature	<p>1- नाटक या वाङ्मय प्रकाराचा आढावा घेऊन स्वरूप व वैशिष्ट्ये यांचे आकलन करून देणे—</p> <p>2- -वि- वा शिरवाडकरांच्या नटसम्राट या शोकात्म नाटकाची माहिती देणे-</p> <p>3- कथा व कविता वाङ्मय प्रकारांची ओळख करून देणे-</p>	<p>1 मराठीतील विविध वाङ्मय प्रकारांची माहिती विद्यार्थ्यांना मिळाली-</p> <p>2- नाटक या वाङ्मय प्रकाराची स्वरूप व यांची जाणीव विद्यार्थ्यांना झाली-</p> <p>3- नटसम्राट या शोकात्म नाटकाच्या आधारे वि- वा शिरवाडकरांच्या साहित्याचे रहस्य कळून आले-</p>
18	Ambedkar Thought		<p>Paper: Social Thoughts of Dr. Ambedkar</p> <ul style="list-style-type: none"> • Students will learn the caste system in India and varna system. • Students will be able to learn about structure of caste. • Students will be able to learn about nature of untouchability. • Students will be able to learn about social movements of Dr. Ambedkar.
Third -Semester			
19	English	<p>On the completion of the Programme:</p> <p>Students will be able to apply the human values, the grammar vocabulary to respond to the questions and in daily lives and will espouse the values through the biographies of people who by their hard braved life and succeeded.</p>	<p>The students will be able:</p> <ol style="list-style-type: none"> 1.To understand the importance of Honesty. 2. To understand the beauties of nature and sublime. 3.To apply the values of nature and sublime. 4. To understand the social evils of society and the values of Humanity.

			<p>5.To understand the correct usage of Narration and Punctuation.</p> <p>6.To use English for the purpose of communication.</p>
20	Marathi	<p>१ मराठी भाषेच्या समृद्धीची जाणीव करून देणे व प्राचीन तसेच आधुनिक साहित्याचा परिचय घडविणे</p> <p>२ भाषेच्या व साहित्याच्या अभ्यासाद्वारे राष्ट्रीय आणि सामाजिक प्रश्नांची जाणीव करून देऊन त्यावरील उपायाचा शोध घेण्यास प्रवृत्त करणे.</p> <p>३ मानवतावाद व जीवनव्यवहाराची सांगड घालणे व मानवतावादी दृष्टिकोन निर्माण करणे.</p> <p>४ विद्यार्थ्यांची लेखनकौशल्ये विकसित करणे व त्यांना रोजगारा भिमुख बनविणे</p> <p>५ ग्रामजीवन, लोकसंस्कृती व श्रमसांस्कृती याविषयी आदराची भावना निर्माण करणे.</p>	<p>१ साहित्याचा आस्वाद घेण्याची क्षमता विकसित होईल.</p> <p>२ सांपादन काया, संवादलेखन यासारखी भाषिक संवाद कौशल्ये भाषाव्यवहारात तसेच जीवनव्यवहारात उपयुक्त ठरतील.</p> <p>३ मुद्रण व्यवहारात परिचय होईल.</p> <p>४ मानवतावाद व जीवनमुल्यांची व विदयांची जोपासना करतील</p> <p>५ श्राव्य,दकृ श्राव्य व दकृ माध्यमासाठी सांवादलेखन कसे करावे याची जाण निर्माण होईल.</p> <p>६ देशप्रेम व देशभक्तीची भावना निर्माण होईल.</p> <p>७ अभ्यासक्रमाची उद्दिष्टे साध्य होतील.</p>
21	Political Science		<p>The students will be able:</p> <ol style="list-style-type: none"> 1. To understand the processes and dynamics of Indian government and politics 2. To understand the strengths and weaknesses of Indian political processes, both in terms of their effectiveness in responding to public policy needs. 3. To attentive current political issues in context of wider debates about democratic life in India and

			<p>the capacity of political institutions</p> <p>4. To understand the basic concept and issues concerning the Right to Information Act, Human Rights and challenges.</p>
22	Economics	<p>On the completion of the course:</p> <p>Economics subject enables the learners to build up a professional carrier as economists, financial advisors, economics planners and policy makers. It prepares them to cope up with the stress and strain involved in the process of economic development. Department supports the education and training of students, teachers and research in economics.</p>	<p>1. It provides knowledge regarding the formulation of broad economic policies that maximize the level of national income.</p> <p>2. Students Identify various Concept of National income.</p> <p>3. Providing economic growth to achieve sustainability, full employment,</p> <p>4. Price stability, external balance, increasing Productivity in the long run.</p> <p>Students will learn a theory of Employment</p>
23	English Literature	<p>On completion of the Programme:</p> <p>Students will be become experts in the studied text.</p>	<p>The students will be able to:</p> <p>1.To understand the various issues of the Indian society</p> <p>2.To realize the values of the concepts of equality, revolution and its effects.</p> <p>3.To. understood the biography, autobiography and Criticism.</p> <p>4.To understand the Literary Terms and their usage.</p>
24	Sociology		<p>1. To know in detail about Sociology as a Discipline</p> <p>2. To know in detail about August Comte, Harbary Spencer</p>

			<p>3. To know in detail about Charles Horton Cooley, Emile Durkheim</p> <p>4. To know in detail about Karl Marx, Max Weber.</p>
25	History		<p>1. The Battle of Buxar and how the British implemented their policy in India</p> <p>2. Gained information about working methods, Kayamdhara ryotwari and Mahalwari and Lord Wellesley deployment forces.</p> <p>3. The uprising of 1857 (independent war) result was known</p> <p>4. Learned how nationalism emerged in India</p>
26	Marathi Literature	<p>1- स्वातंत्रोत्तर मराठी कविता या पुस्तकातील कवितांचा व कविंचा आढावा घेणे-</p> <p>2- अभिनव काव्यप्रकाश या साहित्य ग्रंथातील काव्याची लक्षणे व काव्याचे प्रयोजन याविषयी माहिती देणे-</p>	<p>2- स्वातंत्रोत्तर मराठी कविता मधील निवडक कवी व कवितांचा भावार्थ विद्यार्थ्यांना समजून आले-</p> <p>3- अभिनव काव्यप्रकाश मधील कवितेची लक्षणे व कवितेची प्रयोजने याविषयीची माहिती मिळाली-</p>
27	Ambedkar Thought		<p>Paper: Dr. Ambedkar on Buddhism</p> <ul style="list-style-type: none"> • Students will be learn dharma and dhamma by Dr. Ambedkar. • Students will be able to learn about dhamma chakka pavatam. • Students will be able to learn about the eight paths of Buddha. • Students will be able to learn about Buddhism and democracy

Fourth- Semester

28	English	<p>On the completion of the Programme:</p> <p>Students will be able to apply the human values, the grammar, vocabulary to respond to the questions and in daily lives and will espouse the values through the biographies of people who by their hard braved life and succeeded.</p>	<p>The students will be able:</p> <ol style="list-style-type: none"> 1. To understand the importance of faith and friendship 2. To apply discipline and struggle in their lives. 3. To solve the examples of Tense and Voice. 4. To use English for the purpose of communication.
29	Marathi	<ol style="list-style-type: none"> १ मराठी भाषेच्या समृद्धीची जाणीव करून देणे व प्राचीन तसेच आधुनिक साहित्याचा परिचय घडविणे २ भाषेच्या व साहित्याच्या अभ्यासाद्वारे राष्ट्रीय आणि सामाजिक प्रश्नांची जाणीव करून देऊन त्यावरील उपायाचा शोध घेण्यास प्रवृत्त करणे. ३ मानवतावाद व जीवनव्यवहाराची सांगड घालणे व मानवतावादी दृष्टिकोन निर्माण करणे. ४ विद्यार्थ्यांची लेखनकौशल्ये विकसित करणे व त्यांना रोजगारा भिमुख बनविणे ५ ग्रामजीवन, लोकसंस्कृती व श्रमसांस्कृती याविषयी आदराची भावना निर्माण करणे. 	<ol style="list-style-type: none"> १ साहित्याचा आस्वाद घेण्याची क्षमता विकसित होईल. २ सांपादन काया, संवादलेखन यासारखी भाषिक संवाद कौशल्ये भाषाव्यवहारात तसेच जीवनव्यवहारात उपयुक्त ठरतील. ३ मुद्रण व्यवहारात परिचय होईल. ४ मानवतावाद व जीवनमुल्यांची व विदयांची जोपासना करतील ५ श्राव्य, दकृ श्राव्य व दकृ माध्यमासाठी सांवादलेखन कसे करावे याची जाण निर्माण होईल. ६ देशप्रेम व देशभक्तीची भावना निर्माण होईल. ७ अभ्यासक्रमाची उद्दिष्टे साध्य होतील.
30	Political Science		<p>The students will be able:</p> <ol style="list-style-type: none"> 1. To understand the vital contemporary emerging

			<p>issues of center-state relation, political parties, emergence of new leadership at different levels, demand for autonomy movement, ethnic conflicts etc.</p> <ol style="list-style-type: none"> 2. To understand the changing nature of the Indian State 3. To understand the Religion and Politics, Cast and Politics, Affirmative Action policies.
31	Economics	<p>On the completion of the course:</p> <p>Economics subject enables the learners to build up a professional carrier as economists, financial advisors, economics planners and policy makers. It prepares them to cope up with the stress and strain involved in the process of economic development. Department supports the education and training of students, teachers and research in economics.</p>	<ol style="list-style-type: none"> 1. It attempts to impart an understanding of monetary economics. 2. It describes carefully the basics of monetary economics like money, value of money, theories of money, banking and international financial institutions. 3. Students learn the function of Commercial and Central Bank and why it is importance 4. Students learn about the structure of RBI and its function. Students Will be identify Financial Market Function
32	English Literature	<p>On completion of the Programme:</p> <p>Students will become experts in the studied text.</p>	<p>Students will be able:</p> <ol style="list-style-type: none"> 1. To understand the various 2. issues of Indian society 3. To realize equality, revolution, and their effects. 4. To understand the biography, autobiography and Criticism. 5. To understand the Literary Terms and their usage.

33	Sociology		<ol style="list-style-type: none"> 1. To know in detail about Founders of theoretical Root's of caste in India B.R. Ambedkar and G.S. Gurye 2. To know in detail about Social change from Indian perspective M.N. Shrinivas & D.P. Mukharjee 3. To know in detail about Indian Society and Contemporary Chenges R.K. Mukherjee and S.C. Dube 4. To know in detail about Gender and Society in India Tarabari Shinde, Jyotirao Fule and Savitribai Fule
34	History		<ol style="list-style-type: none"> 1. Learned about the establishment of the National Congress 2. Understood the role of Jahal and Mawal 3. Information was received about non-cooperation, civil disobedience movement 4. Gained detailed knowledge of how India became independent
35	Marathi Literature	<p>1- स्वातंत्र्योत्तर मराठी कथा या पुस्तकाच्या आधारे कथाकार व कथेचा आढावा घेणे-</p> <p>2- अभिनव काव्यप्रकाश या पुस्तकातील शब्दाच्या तीन शक्ती व अलंकाराचा आढावा घेणे-</p>	<p>1- स्वातंत्र्योत्तर मराठी कथाकारांच्या कथांची माहिती विद्यार्थ्यांना प्राप्त झाली-</p> <p>2- अभिदा] व्यंजना व लक्षणा या शब्दाच्या तीन शक्ती विद्यार्थ्यांना समजून आल्या-</p>
36	Ambedkar Thought		Paper: Economic thought of Dr. Ambedkar

			<ul style="list-style-type: none"> • Students will understand the path of mahatma Fule ,Sahu maharaj etc. • Students will be able to learn about nature of Economics and caste based economics. • Students will be able to learn about the untouchability and slavery. • Students will be able to learn about the difference between Marxist and Gandhian thoughts
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Fifth- Semester

37	English	<p>Upon successful completion of the B.A. Programme, students will be competent enough to internalize the subsequent qualities, which will facilitate their pursuit of envisioned objectives in their future lives: (a) Grasping of ethical principles (b) Development of a spirit of community engagement (c) Becoming a conscientious and accountable member of society (d) Cultivation of analytical disposition (e) Enhancement of innovative aptitude</p>	<ol style="list-style-type: none"> 1. Students will adopt and put into practice the principles of tolerance and simplicity as part of their everyday routines. 2. During a time characterized by widespread unemployment, students will find inspiration in the stories of three prominent personalities, motivating them to consider self-employment as a viable option. 3. The impactful messages aimed at the general public, as communicated through the poetry segment, will exert a favorable influence on the students' attitudes. 4. Engaging with the Grammar and Composition segment will enhance their self-assurance, leading to the development of
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			proficient communication abilities.
38	Marathi	<p>१ मराठी साहित्यातील विविध प्रवाहांची जाणीव करून देणे.</p> <p>२ भाषेच्या व साहित्याच्या अभ्यासाद्वारे भारतीयत्वाच्या सांकल्पनेची ओळख करून देणे.</p> <p>३ विविध साहित्य प्रकारांची ओळख करून देणे.</p> <p>४ व्यावहारिक मराठीच्या माध्यमातून लेखन कौशल्ये विकसित करणे व रोजगाराभिमुख बनविणे</p> <p>५ भारतीय सांस्कृती –कालची ,आजची आणि उद्याची या संदर्भात समन्वयाची भावना रुजवणे.</p>	<p>१ साहित्यातील विविध प्रवाहांची जाणीव होईल.</p> <p>२ संत, पंत आणि तंत साहित्याची जा ओळख होईल. साहित्य आणि समाज यांच्या परस्पर संबंधाची जाणिव होईल</p> <p>३ मुद्रितशोधन यासारखी भाषिक कौशल्ये विकसित होवून कार्यालयीन भाषा व्यवहारात व जीवनव्यवहारात उपयुक्त ठरतील</p> <p>४ अचूक लेखन करण्याची सवय लागेल.</p> <p>५ दृक् श्राव्य माध्यमासाठी लेखन, मुद्रितशोधन, भाषांतर कौशल्ये विकसित झाल्यामुळे रोजगाराच्या संधी उपलब्ध होतील.</p> <p>६ सामाजिक व राष्ट्रीय प्रश्नांवर विचार करण्याची क्षमता निर्माण होईल.</p> <p>७ देशातील वेगवेगळ्या सांस्कृतीचा आदर करण्याची क्षमता निर्माण होईल.</p> <p>८ अभ्यासक्रमाची उद्दीष्टे साध्य होतील.</p>
39	Political Science		<p>The students will be able to:</p> <ol style="list-style-type: none"> 1. Comparative understanding of specific world constitutions such as U. K. and U.S.A. 2. To analyze contemporary problems in the countries (U. K. and U. S. A.) under consideration in light of the conceptual

			frameworks presented in class.
40	Economics	<p>On the completion of the course:</p> <p>Economics subject enables the learners to build up a professional carrier as economists, financial advisors, economics planners and policy makers. It prepares them to cope up with the stress and strain involved in the process of economic development. Department supports the education and training of students, teachers and research in economics.</p>	<ol style="list-style-type: none"> 1. This course will use appropriate analytical frameworks to review major trends in economic indicators in the India in post- independence period 2. The course will be able to highlight major policy debates and evaluate the Indian empirical evidence to update the major changes of Indian Economy. 3. It will examine various paradigm shifts and turning points in policy debates in India. <p>It enables students to examine sector specific policies and their impact trends in key economic indicators in India</p>
41	English Literature	<p>On completion of the course:</p> <p>Students will be able to understand varieties of literature in all the forms available.</p>	<p>The students will be able to:</p> <ol style="list-style-type: none"> 1. To apply critical and theoretical approaches to analysis of literary texts. 2. To write analytically using language competencies.
42	Sociology		<ol style="list-style-type: none"> 1. To know in detail about Indian Society, Structure and Inequality 2. To know in detail about Family in contemporary India 3. To know in detail about Tribal Issue and problems in India 4. To know in detail about Rural Community in India

43	History		<ol style="list-style-type: none"> 1. The French Revolution was also the first revolution in the world 2. What are the reasons for imperialism? 3. World War I - The Treaty of Versai. Learned about the United Nations and its achievements and failures
44	Marathi Literature	<ol style="list-style-type: none"> 1- पुर्णामायची लेकरं या कादंबरीचा आढावा घेणे- 2- दलित साहित्य वेदना व विद्रोह या पुस्तकातील दलित साहित्याचा आढावा घेणे- 3- साहित्याच्या विविध प्रवाहाचा आढावा घेणे- 	<ol style="list-style-type: none"> 1- पुर्णामायची लेकरं या कादंबरीतील समाजजिवनाची माहिती विद्यार्थ्यांना मिळाली- 2- दलित साहित्य वेदना व विद्रोह यातून दलितांच्या वेदनेचे व विद्रोहाचे विद्यार्थ्यांना आकलन झाले- 3- प्राचीन साहित्यातील संत, पंत व तंत साहित्यप्रवाहाची माहिती विद्यार्थ्यांना प्राप्त झाली-
45	Ambedkar Thought		<p>Paper: Political thought of Dr. Ambedkar</p> <ul style="list-style-type: none"> • Students will understand foundation of political thought. • Students will be able to learn about Political independence and Hindu-Muslim conflict. • Students will be able to learn about Social and Political Democracy. • Students will be able to learn about the aim and objective of political parties and small

Sixth- Semester

46	English	<p>Upon successful completion of the B.A. Programme, students will be competent enough to internalize the subsequent qualities, which will facilitate their pursuit of envisioned objectives in their future lives: (a) Grasping of ethical principles (b) Development of a spirit of community engagement (c) Becoming a conscientious and accountable member of society (d) Cultivation of analytical disposition (e) Enhancement of innovative aptitude</p>	<ol style="list-style-type: none"> 1. Students will grasp the idea that prioritizing friendships and human connections is more valuable than a self-centered focus on financial gains, as portrayed in the Prose section. 1. After engaging with A.P.J. Abdul Kalam's reflections on resilience, students will witness a significant positive influence on their own lives. 2. The remarkable accomplishments of renowned personalities will prompt learners to understand the truth that determination and hard work are the keys to success.' 3. The Poetry Segment will enhance the promotion of spreading harmony and the message of serenity.
47	Marathi	<p>१ मराठी साहित्यातील विविध प्रवाहांची जाणीव करून देणे.</p> <p>२ भाषेच्या व साहित्याच्या अभ्यासाद्वारे भारतीयत्वाच्या सांकल्पनेची ओळख करून देणे.</p> <p>३ विविध साहित्य प्रकारांची ओळख करून देणे.</p> <p>४ व्यावहारिक मराठीच्या माध्यमातून लेखन कौशल्ये विकसित करणे व रोजगाराभिमुख बनविणे</p>	<p>१ साहित्यातील विविध प्रवाहांची जाणीव होईल.</p> <p>२ संत, पंत आणि तंत साहित्याची जा ओळख होईल. साहित्य आणि समाज यांच्या परस्पर संबंधाची जाणिव होईल</p> <p>३ मुद्रितशोधन यासारखी भाषिक कौशल्ये विकसित होवून कार्यालयीन भाषा व्यवहारात व जीवनव्यवहारात उपयुक्त ठरतील</p> <p>४ अचूक लेखन करण्याची सवय लागेल.</p>

		<p>५ भारतीय सांस्कृती -कालची ,आजची आणि उद्याची या संदर्भात समन्वयाची भावना रुजवणे.</p>	<p>५ दकु श्राव्य माध्यमासाठी लेखन, मुद्रितशोधन, भाषांतर कौशल्ये विकसित झाल्यामुळे रोजगाराच्या संधी उपलब्ध होतील.</p> <p>६ सामाजिक व राष्ट्रीय प्रश्नांवर विचार करण्याची क्षमता निर्माण होईल.</p> <p>७ देशातील वेगवेगळ्या सांस्कृतीचा आदर करण्याची क्षमता निर्माण होईल.</p> <p>८ अभ्यासक्रमाची उद्दीष्टे साध्य होतील.</p>
48	Political Science		<p>The students will be able to:</p> <ol style="list-style-type: none"> 1. To understand the nature and development in International Politics 2. To relate the basics of international relations and the new trends in the realm of international relations.
49	Economics	<p>On the completion of the course:</p> <p>Economics subject enables the learners to build up a professional carrier as economists, financial advisors, economics planners and policy makers. It prepares them to cope up with the stress and strain involved in the process of economic development. Department supports the education and training of students, teachers and research in economics.</p>	<ol style="list-style-type: none"> 1. It makes the students to understand the aspect of development process in low-income counties. Its focus is on improving the potential for the mass of population through health and education. 2. It makes learners to understand the economic functioning and conditions of our country in the context of past, present and future. 3. Enable the students the pattern and nature of international trade and their contribution to economic development

			It also enables learners to know the role of public authorities in raising revenue and its spending.
50	English Literature	On completion of the course: Students will be able to imbibe ethical, moral and cultural values in an academic context.	The students will be able to: <ol style="list-style-type: none"> 1. To comprehend the texts in different given contexts. 2. To understand the ideas, values and themes impacting culture and societies.
51	Sociology		<ol style="list-style-type: none"> 1. To know in detail about Education in contemporary 2. To know in detail about Displacement and Rehabilitation 3. To know in detail about Intolerance, Riot and Crime 4. To know in detail about Epidemic social issues & policy intervention
52	History		<ol style="list-style-type: none"> 1. Learned about Russia's Five Year Plan. 2. Hitler - Mussolini's foreign policy in detail. 3. Learned the reasons for the Second World War. 4. Received information about the United Nations and the performance of the Suez Canal, NATO SEATO Warsaw Pact.
53	Marathi Literature	<p>1- एक होता कार्द्वर या चरित्रातील कार्द्वरचे चरित्र समजून घेणे-</p> <p>2- भाषाविज्ञान पुस्तकातील मराठीची वर्णमालेचा आढावा घेणे-</p>	1- जॉर्ज वॉशिंग्टन कार्द्वर यांचे चरित्र विद्यार्थ्यांना समजून आले-

			2- मराठीची वर्णमालेतील स्वर व व्यंजनाची माहिती विद्यार्थ्यांना मिळण्यास मदत झाली-
54	Ambedkar Thought		<p>Paper: Constitutional thought of Dr. Ambedkar</p> <ul style="list-style-type: none"> • Students will understand nature and objectives of constitution. • Students will be able to learn Fundamental rights and states policy. • Students will be able to learn about constitutional safe guards to SC and ST . • Students will be able to learn about Federal system and constitutional moralit

Faculty of Commerce

Academic session-2022-2023

PO1.Students could work on their start- up projects.

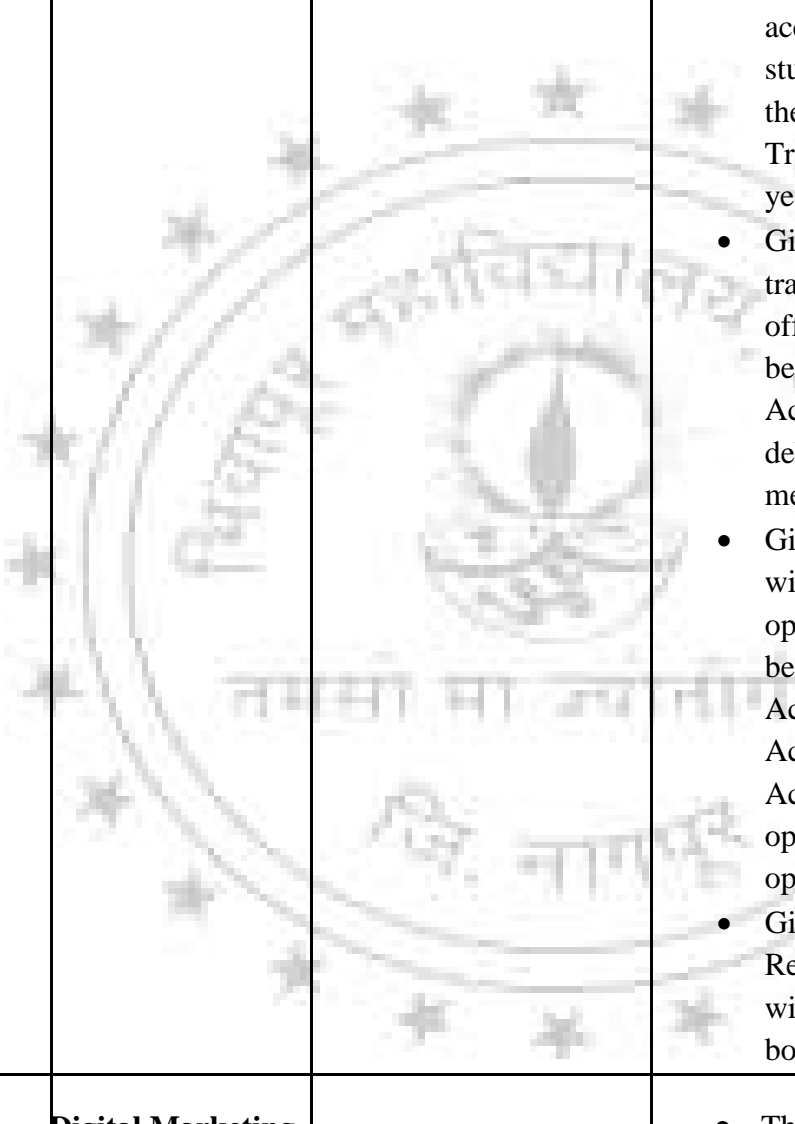
PO2.Students will be exposed to the nuances of Finance and Commerce.

PO3.Students will be able to do their Masters in allied subjects and venture into Market Research.

PO4. On completion of graduation, Students will be equipped with required skills and various aspects of Managerial Tasks and over all Administration abilities of the Company.

PO5. Enables learners to get theoretical and practical exposure in the commerce sector which includes Accounts, Commerce, Management and Economics.

Sr. No.	Subject	Programme Outcomes	Course Outcomes
First- Semester			
1	English		<ul style="list-style-type: none">• The assigned texts inspired students to uncover profound insights about life.• Each recommended biography imparted valuable lessons concerning human potential.• Informative content about startups, entrepreneurship, social media, and public speaking equipped students for success in the business realm.• The chosen study materials cultivated an environment of enthusiastic teaching and learning.• The literature provided paved the way for students to develop a keen interest in exploring their potential and facing real-world challenges.
2	Marathi		<p>By the end of this course, the students will be able to</p> <ul style="list-style-type: none">• भारतीय लोकशाहीचे मूल्य विद्यार्थ्यांमध्ये रुजविणे.• ग्रामीण जनजिवन व शेतीनिष्ठेशी विद्यार्थ्यांची नाळ जोळणे.• संताच्या व्यावहारिक विचारांचा परिचय घडविणे.• शाहू महाराजाच्या आरक्षण विषयी विचारांचा परिचय घडविणे.• काव्यातील रसग्रहणक्षमता विकसीत करणे.• विद्यार्थ्यांमध्ये आधुनिक मूल्य रुजविणे• विद्यार्थ्यांमध्ये सामाजिक बांधिलकी निर्माण करणे. <p>विद्यार्थ्यांमध्ये सर्जनशीलता निर्माण करणे.</p>

<p>3</p>	<p>Fundamental of Accounting</p>		<ul style="list-style-type: none"> • Given the information about transaction /cash students will be able to identify the nature of translation /events and will be able to record the financial transaction in the books of accounts. • Give the trial Balance of a sole Trading concern along with the accompanied adjustment the students will be able to prepare the financial statement of a Sole Trader at the end of financial year • Given the details business transaction between the Head office and Branches students will be able to prepare Branch Account, Cash and Credit sale, debtors & stock and debtors method of accounting. • Given the Trial Balance along with the adjustment of a Co-operative society a students would be able to prepare Trading Accounting, profit & Loss Account, Profit & Appropriation Account and balance Sheet of Co-operative society as per state Co-operative society Act 1960 • Given the information of business Receipts and Payments, students will be able to a simple cash book.
<p>4</p>	<p>Digital Marketing</p>		<ul style="list-style-type: none"> • The students will be able to understand the concept and develop the knowledge of Digital Marketing, E-Commerce and M-Commerce • The students will be able to understand the concept and will be equipped with the practical knowledge of creating electronic

			<p>mail (E-mail), Websites, Brochure/Flyers.</p> <ul style="list-style-type: none"> • The students will be able to develop the knowledge about usage and Procedures for handling various important Digital Marketing Platforms for Earning Income. • The students will be able to develop the knowledge about Recent Trends for Earning income through Digital Marketing. • The students will be equipped with the practical knowledge of various important Digital Marketing Platforms.
5	Microsoft Office		<ul style="list-style-type: none"> • Students got well understood the following topics Microsoft word • Students got well understood the following topics Creating Storing and Formatting data using different using Excel formatting tools and features. • Students got well understood the following topics Calculation using function and Present data visually using chart and graph. • Students got well understood the following topics create and design professional presentation using different features & tools of PowerPoint.
6	Business Economics- I		<ul style="list-style-type: none"> • Students will be able to classify fundamental problems of an economy. • Students will be able to use demand analysis & Indifference curves analysis in given situations and to measure and comment on elasticity of demand for given data. • Students will be able to apply various demand forecasting techniques.

			<ul style="list-style-type: none"> Students will be able to identify key elements in supply and isoquant curves.
Second -Semester			
7	English		<ul style="list-style-type: none"> Students are motivated to explore the extent of their capabilities due to the impact of the prescribed texts. Informative content about start-ups, entrepreneurship, social media, and public speaking equipped students for success in the business realm. Prose materials aided students in confronting practical challenges encountered in their daily lives. Prescribed readings encouraged students to delve into deeper meanings and implications of life. Biographies suggested, served as a source of guidance on realizing personal capabilities.
8	Marathi		<p>By the end of this course, the students will be able to</p> <ul style="list-style-type: none"> भारतीय लोकशाहीचे मूल्य विद्यार्थ्यांमध्ये रुजविणे. ग्रामीण जनजिवन व शेतीनिष्ठेशी विद्यार्थ्यांची नाळ जोळणे. संताच्या व्यावहारिक विचारांचा परिचय घडविणे. शाहू महाराजाच्या आरक्षण विषयी विचारांचा परिचय घडविणे. काव्यातील रसग्रहणक्षमता विकसीत करणे. विद्यार्थ्यांमध्ये आधुनिक मूल्य रुजविणे विद्यार्थ्यांमध्ये सामाजिक बांधिलकी निर्माण करणे. विद्यार्थ्यांमध्ये सर्जनशीलता निर्माण करणे.
9	Statistics and Business Mathematics		<ul style="list-style-type: none"> Given the information about a particular variable, Students will be demonstrating an

			<p>understanding of statistics by creating frequency distribution as per the Statistical Series.</p> <ul style="list-style-type: none"> ● From the given data set student will be able to compute, Mean, Median, Mode and other measure of central tendency as required. ● From the given data Students will be able to know dispersion and to calculate Standard Deviation, Quartiles. Quartiles Deviation & Coefficient of Variation. ● From the given data set the students will be able to compute the Skewness & its coefficient by using Karl Pearson's and Bowley's method. ● From the Given information student will able to calculate Percentage, Simple interest, Compound interest and also able calculate Profit & Loss arising out business transaction.
10	Fundamentals of Banking		<ul style="list-style-type: none"> ● The students will be able to Classify Banking Functions. ● The students will be aware of Types of Bank Accounts and its Eligibility. ● The students will be aware of Bank Account Procedure for Opening, operating, Transfer and Closing. ● The students will be known of Types of Bank services for the Customers. ● The students will be enlightened regarding the new concepts introduced in the banking system.
11	Skill Development		<ul style="list-style-type: none"> ● The students will be able to relate the concept of skill development and its importance. ● The student will be able to interpret the problem-solving

			<p>technique and multiple approaches to creativity.</p> <ul style="list-style-type: none"> • The students will be able to relate importance of communication Skill for interpersonal communication. • The students will be able to analyses team behavior and impact of empowerment and delegation. • The Students Will be able to explore various skill development avenues.
12	Business Economics II		<ul style="list-style-type: none"> • Students will be able to establish a relationship between cost and Output in the short/ long run. • Students will be able to differentiate between various Market structures. • Students will be able to determine prices under different market structures. • Students will be able to explain basic concepts of macroeconomics and Students will be measure national income using given data.
Third-Semester			
13	English		<ol style="list-style-type: none"> 1. Students acquired the skill of comprehending the English language by engaging with recommended poems and prose. 2. Students demonstrated the ability to read and understand moderately intricate English texts. 3. Proficiency, with respect to English speaking, conversing, delivering speeches, narrating, and describing, has been cultivated among the students. 4. Students are equipped to convey proficiently their emotions and thoughts, both verbally and in written English.

			5. Students are able to compose diverse letters and reports.
14	Marathi		<p>By the end of this course, the students will be able to:</p> <ul style="list-style-type: none"> ● मातृभाषेची आवड व जाणीव निर्माण करणे ● प्राचिन मराठीचे वैशिष्ट्ये स्पष्ट करणे. ● विनोदी लेखनात खेळकरवृत्तीचे दर्शन घडविणे. ● संत साहित्यातून सामाजिक, सांस्कृतिक, आध्यात्मिक लोकशाहीचा पुरस्कार करणे. ● स्त्री विषयक जाणिव जागृती करणे. ● वृत्त लेखन व कल्पना विस्तार तंत्राची माहिती अवगत करणे
15	Financial Accounting -I		<ul style="list-style-type: none"> ● Students get well understood the topic of Consignment Accounts and Hire Purchase ● Students get well understood on the topic of Capital Structure and Issues of Shares. ● Students get well understood on the topic of Final Accounts of Joint Stock Company.
16	Business communication and management		<ul style="list-style-type: none"> ● To Make The students to understand Meaning, Definition and concept of Communication, objective of Communication ● To Make The students to understand Business Communication. ● Students get well understood the following topics Technology and Business Communication. ● Students get well understood the following topics M.S. Office Aided Communication.
17	Business law		<ul style="list-style-type: none"> ● Students get well understood the following topics. Essential of a Valid Contract, Characteristics or Essential of offer. Important of Rules for Valid offer, Process of

			<p>Sale of goods Act, Price of goods & Effect of Sale Contract.</p> <ul style="list-style-type: none"> • Students get well understood the following topics. Types of Negotiable Instruments, Presumptions as to Negotiable Instrument, Registration of Partnership & Type of Partner. • Students get well understood the following topics Importance of Consumer Protection Act, Importance of points of Act, Consumer Rights & Importance of Right to Information Act 2005. • Students get well understood the following topics Electronics Governance, Cyber Crime, Punishment, Need for Labour Legislation & Importance of Indian Factory Act.
18	Monetary Economics-I		<ul style="list-style-type: none"> • Students will be able to understand the evolution of Money and functions of Money. • Students will be able to understand Inflation, Deflation, Monetary Policy and Fiscal Policy. • Students will be able to understand Money Market and Policies. • Students will be able to understand the concept of Public Finance and Types of Taxation.
Fourth -Semester			
19	English		<ol style="list-style-type: none"> 1. Through analysis and discussion of prescribed prose and poems, students gained the ability to examine, interpret, and engage in debates on various topics. 2. Students are encouraged to adopt a positive outlook towards life through inspiration and motivation sought from the prescribed texts.

			<ol style="list-style-type: none"> 3. Students are equipped with competence in utilizing information and communication technology (ICT) and social media in a productive manner. 4. Students developed logical reasoning skills and aptitude for forming personal opinions and making decisions across various subjects. 5. The ideas and activities delineated in the prescribed texts fostered creativity and innovation among students.
20	Marathi		<ul style="list-style-type: none"> • मातृभाषेची आवड व जाणिव निर्माण करणे • प्राचिन मराठीचे वैशिष्ट्ये स्पष्ट करणे. • विनोदी लेखनात खेळकरवृत्तीचे दर्शन घडविणे. • संत साहित्यातून सामाजिक, सांस्कृतिक, आध्यात्मिक लोकशाहीचा पुरस्कार करणे. • स्त्री विषयक जाणिव जागृती करणे. • वृत्त लेखन व कल्पना विस्तार तंत्राची माहिती अवगत करणे
21	Financial Accounting-II		<ul style="list-style-type: none"> • Students get well understood the topic of Final Accounts of Banking Companies. • Students get well understood the topic of Final Accounts of General Insurance Companies. • Students get well understood the topic of Valuation of Goodwill. • Students get well understood the topic of Liquidation of Company.
22	Skill Development		<ul style="list-style-type: none"> • To Make The students to understand Basic of personality, Human Growth, Human Skill Behavior our & skill Development and Employment.


			<ul style="list-style-type: none"> • To Make The students to understand Communication Skill and Personality Development. • To Make The students to understand Techniques in Personality Development. • To Make The students to understand Entrepreneurial Skill Development.
23	Income Tax		<p>Students will be able to understand the</p> <ul style="list-style-type: none"> • Income Tax Introduction. Agricultural • Income, Revenue and Capital receipt and • Deduction. <p>Students will be able to understand the</p> <ul style="list-style-type: none"> • Definition of Salary, Allowances types of • Allowances, Tax Free allowances partly • taxable allowances. • Income from House property: Meaning and Annual value, Fully Exempted Income from • House Property, Deemed owner, Deduction from Income from House Property, • Unrealized rent Computation Income from • House Property. • Students will be able to understand the • Income Tax slab Rates, Rebates, Deduction Under Section 80C, 80CCC,80CCD, 80D,80DDB, 80 G ,80 E, 80G,80GG, 80 U • Income From Other Sources.
24	Monetary Economics-II		<ul style="list-style-type: none"> • Students will be able to understand the functions of Commercial Bank. • Students will be able to understand the E-Banking and Core Banking.

			<ul style="list-style-type: none"> • Students will be able to understand and they apply their knowledge in the Bank as a customer. • Students will be able to develop the knowledge about Central bank.
	Fifth-Semester		
25	Financial Accounting-IV		<ul style="list-style-type: none"> • Students got well understood the following topics Amalgamation and absorption of Companies. • Students got well understood the following topics Reconstruction of companies • Students got well understood the following topics Valuation of Goodwill & Valuation Of Shares. • Students got well understood the following topics Account of Public Utility Company.
26	Cost Accounting		<ul style="list-style-type: none"> • The students will be able to understand the concept and develop the knowledge of cost accounting and students will be able to prepare Cost Sheet and Tender Sheet. • The students will be able to understand the concept and develop the knowledge of need of reconciliation statement of profit and students will be able to prepare Reconciliation Statement of Profit. • The students will be able to understand the concept of Process Costing and students will be able to prepare Process Account. • The students will be able to understand the concept of Contract

			Costing and students will be able to prepare Contract Account.
27	Management Process		<ul style="list-style-type: none"> • Students will be able to apply the knowledge of Management and Administration. • Students will be able to create the knowledge of Managerial Development & Group Dynamics • Students will be able to develop the knowledge of Managerial Style. • Students will be able to understand the meaning of Motivation and their types.
28	Indian Economics-I		<ul style="list-style-type: none"> • Students will be able to understand Indian Economy & Planning. • Students will be able to understand Indian Economy & Policy. • Students will be able to understand & create the knowledge about the Population and Unemployment. • Students will be able to develop the knowledge of India's Public Finance.
29	Computerized Accounting		<ul style="list-style-type: none"> • Students got well understood the following topics Introduction of Accounting, Advantage of Accounting, Books of Account, Computerized Accounting. • Students got well understood the following topics Accounting Software Introduction to Tally Software. • Students got well understood the following topics Accounts

			<p>Information Menu, Accounts Group.</p> <ul style="list-style-type: none"> • Students got well understood the following topics Inventory Info. Features of Inventory Info, Balance Sheet.
30	Auditing		<ul style="list-style-type: none"> • Students will be able to understand the accounting system, principles, concepts and basics of auditing. • Students will be able to gain knowledge about the internal control, the internal check and the internal audit. • Students will be able to learn vouching, valuation of assets and liabilities and their verification. • Students will be able to know about the appointment, rights, duties and the liabilities of an auditor.
Sixth- Semester			
31	Financial Accounting-V		<ul style="list-style-type: none"> • Students got well understood the following topics Accounts of Holding Company • Students got well understood the following topics Insurance Claim • Students got well understood the following topics Investment Accounts • Students got well understood the following topics Profit Prior to Incorporation.
32	Management Accounting		<ul style="list-style-type: none"> • Students would explain the significance of basic concept, importance & functions of Management Accounting.

			<ul style="list-style-type: none"> • Students will be able to understand the Meaning of Budgets and prepare Cash Budget and Flexible Budget. • Students would calculate the various ratios and would be able to discuss the significance and use of the various ratios. • Students would be able to prepare Statement showing Changes in Working Capital and Fund Flow statements.
33	Advanced Statistics		<ul style="list-style-type: none"> • Students got well understood the following topics Correlation • Students got well understood the following topics Regression Analysis • Students got well understood the following topics Index Number. • To Make The students to understand Time series Analysis
34	Indian Economics-II		<ul style="list-style-type: none"> • Students will be able to apply the knowledge of Indian Agriculture. • Students will be able to create knowledge about Indian Industry. • Students will be able to develop knowledge about India's International Trade. • Students will be able to understand the contribution of Indian Economic Thinkers (Mahatma Gandhi, Pandit Dindayal Upadhyaya, Dr. B. R. Ambedkar, Dr. Ram Manohar Lohiya.
35	Human Resource Management		<ul style="list-style-type: none"> • Students will be able to understand the concept of Human Resources Management & Human Resource Manager.

			<ul style="list-style-type: none"> • Students will be able to understand the Recruitment, selection and training • Students will be able to understand Labour welfare and collective bargaining. • Students will be able to understand Human Resource Planning and Accounting.
36	Industrial Law		<ul style="list-style-type: none"> • Students will be able to understand the Provision for Workers under Indian Factories Act-1948, Industrial Dispute Act-1947 • Students will be able to understand the Provision for Workers under Minimum Wages Act-1948, Payment of Wages Act 1936, Payment of Bonus Act 1965 and Payment of Gratuity Act 1972, The Employee's State Insurance Act 1948 and Employee's Provident Fund & Miscellaneous Provision Act 1952, Workmen Compensation Act-1923 and Maternity Benefits Act 1961. • Students will be able to understand the Provision for Workers under Child Labour (Prohibition and Regulation) Act 1986, Trade Union Act 1926, Contract Labour Act. • Students will be able to understand the concept Industrial Estate, Software Technology Park, SEZ, Co-operative Industrial Estate, Intellectual Property Rights Law In India, Environment Protection Act 1986.

Programme Outcomes

Course Outcomes

Faculty of Science

(Physics, Chemistry, Mathematics, Zoology, Botany)

Academic session-2022-2023

Programme Outcomes:

On completion of the Course:

- Students will be able to achieve what they want with tenacity and ambition.
- Bachelor of Science offers theoretical as well as practical knowledge about different subject areas.
- This course forms the basis of science for coherent understanding of the academic field to pursue multi and interdisciplinary science careers in future. These subject areas include Physics, Chemistry, Mathematics and Botany and Zoology.
- Able to plan and execute experiments or investigations, analyze and interpret data information collected using appropriate methods.
- It helps to develop scientific temper and thus can prove to be more beneficial for the society as the scientific developments can make a nation or society to grow at a rapid pace through research.
- Think critically; follow innovations and developments in science and technology.
- Students will be able to achieve what they want with tenacity and ambition.

Sr. No.	Subject	Course Outcomes
First- Semester		
1	English	The student will be able: <ul style="list-style-type: none">• To understand the text through insights given on compassion and freedom.• To comprehend the values system as a Human Beings while discharging one's duties.• To summarize the given text.
2	Marathi	<ul style="list-style-type: none">• विद्यार्थ्यांमध्ये साहित्य विषयक आवड निर्माण करणे

		<ul style="list-style-type: none"> • वाचन संस्कृतीचा पुरस्कार करणे • भारतीय संविधानाचे महत्व समजावून सांगणे • मानवी मुल्यांची जपणूक करणे • कविता लंखनाचे तंत्र अवगत करणे • पर्यावरण विषयक जागृती निर्माण करणे • व्यावहारिक मराठीचे महत्व समजावून सांगणे
3	Chemistry Paper-I Inorganic Chemistry (101)	101.1 <ul style="list-style-type: none"> • To understand the basic structure of atom. • Understand shape of orbitals. • Understand periodic properties such as atomic and ionic radii, ionization energy, electron affinity etc. 101.2 <ul style="list-style-type: none"> • To understand the ionic structures with respect to NaCl and CsCl. • To understand the concept of covalent bond. • To understand the bond parameters and various types of types of hybridization. 101.3 <ul style="list-style-type: none"> • Understand s block element and their properties such as electronic configuration, atomic and ionic radii, I.P. etc. • Understand chemical properties of the noble gases, preparation, structures, bonding and applications. 101.4 <ul style="list-style-type: none"> • To understand the P block element. Comparative study of groups 15,16, 17 with respective their properties. • Understand the Hydrides Oxides, Peroxyacids, Hydrides. • Understand the concept of food adulteration and detection.
	Paper-II Physical Chemistry (102)	102.1 <ul style="list-style-type: none"> • Understand the common thermodynamics terms. Types of systems and varies thermodynamics processes. • State and path functions and their differentiation. • Understand the first law of thermodynamics 102.2 <ul style="list-style-type: none"> • Understand gas equation and laws. • Understand qualitative discussion of the Maxwell-Boltzmann distribution. • Understand ideal gas and real gases behaviors 102.3 <ul style="list-style-type: none"> • Understand the Intermolecular forces, structure of liquid, structural difference between solid, liquid and gases. • Properties of liquid like surface tension, viscosity, refractive index 102.4 <ul style="list-style-type: none"> • Understand the concept of different types of surface phenomenon and catalytic property, like Adsorption mechanism of adsorption, factor affecting adsorption. Difference between adsorption and absorption, etc. • Understand types of catalysis and enzymes. • Understand colloidal states of system, preparation of gels, importance and application of colloids.

	Chemistry Practical Course	103 <ul style="list-style-type: none"> • Verify theoretical principles experimentally • Interpret the experimental data • Improve analytical skills • Correlate the theory and experiments and understand their importance
4	Physics I: Properties of Matter and Mechanics (101)	101.1 <ul style="list-style-type: none"> • Understand the mechanical behavior of the material and the fundamental terminology like Stress, Strain, Poisson's ratio, Hooke's law, bending moment and modulus of elasticity 101.2 <ul style="list-style-type: none"> • Understand the concept of viscosity. • Apply Poiseuille's Equation, Bernoulli's Theorem, Stoke's law and the concept of terminal velocity. 101.3 <ul style="list-style-type: none"> • Understand the concept of surface tension and surface energy, Newton's laws of motion and to resolve the components of velocity and acceleration in different coordinate systems. 101.4 <ul style="list-style-type: none"> • Understand the System of particles and conservation laws.
	Physics II: Electrostatics, Time varying fields & Electric Currents (102)	102.1 <ul style="list-style-type: none"> • Understand the concept of Electrostatic force, Electric field, Electric potential, Electric dipole, Electric dipole moment. 102.2 <ul style="list-style-type: none"> • Understand the concept of polarization and capacitors with and without dielectric. • Apply Gauss law to parallel plate capacitors. 102.3 <ul style="list-style-type: none"> • To understand the concept of electromagnetic induction and transformer. • Apply equation of continuity and Kirchoff's law to rise and decay of current in LR, CR and LCR circuits. 102.4 <ul style="list-style-type: none"> • To apply complex numbers in solving an a.c. circuit. • Apply j- operator in LR, CR and LCR circuit. • Understand the concept of Resonance • Calculate I, Z, Φ and fr.
5	Physics Practical (103)	103.1 <ul style="list-style-type: none"> • Apply and demonstrate the theoretical concepts of Physics and to develop scientific attitude. 103.2 <ul style="list-style-type: none"> • Interpret the experimental data
5	Mathematics-I Elementary Mathematics	101.1 <ul style="list-style-type: none"> • Understand concept of Complex Number system, DMT and Elementary Functions 101.2

	(101)	<ul style="list-style-type: none"> Understand the basic concept related to Matrices and solve the problem based on system of Linear equations 101.3 <ul style="list-style-type: none"> Understand the relation between roots and coefficients and solve the problems based on Cubic and Biquadratic equations 101.4 <ul style="list-style-type: none"> Understand GCD and LCM with Diophantine Equation and solve the problems
	Mathematics-II Differential and Integral Calculus (102)	102.1 <ul style="list-style-type: none"> Using Leibnitz's Rule for nth derivative of the product of two functions Identify Indeterminate forms and application of L' Hospitals Rule 102.2 <ul style="list-style-type: none"> Understand the concept of Partial Derivatives, Asymptotes and Envelopes 102.3 <ul style="list-style-type: none"> Understand the concept of Jacobians, Taylors series, Maxima and Minima and solve the problems. 102.4 <ul style="list-style-type: none"> Identify the various types and methods to solve Integration and application of Reduction Formulae
6	Zoology I & II Paper-I Life and Diversity of Animals – Non-chordates (Protozoa to Annelida) (101)	101.1 <ul style="list-style-type: none"> To understand general characters and classification up to classes of protozoa, structure and reproduction of <i>Paramoecium</i>, structure and life cycle of <i>Plasmodium</i>, parasitic Protozoans of Man (<i>Entamoeba</i>, <i>Trypanosoma</i>, <i>Giardia</i> and <i>Leishmania</i>). Mode of infection and its control. 101.2 <ul style="list-style-type: none"> To understand the general characters and classification up to classes of porifera, Structure, reproduction and development, Canal system in sponges, General characters and classification up to classes of Coelenterata, structure and life cycle of <i>Obelia</i>, Polymorphism in hydrozoa. 101.3 <ul style="list-style-type: none"> To Understand the Helminthes: General characters and classification up to classes, <i>Ascaris</i>: External morphology, reproductive system and life cycle, <i>Taenia solium</i>: Structure and life cycle, Elementary idea of parasitic adaptations in helminthes. 101.4 <ul style="list-style-type: none"> To Understand the Annelida: General characters and classification up to classes, Leech: Morphology, digestive and urinogenital system, Trochophore larva and its significance, Vermiculture and its importance
	Paper-II Environmental Biology (102)	102.1 <ul style="list-style-type: none"> To understand the Atmosphere: Major zones and its importance composition of air, Hydrosphere: Global distribution of water, Physico-chemical characteristics of water, Lithosphere: Types of rocks formation of soil, Renewable and non-renewable energy sources. 102.2

		<ul style="list-style-type: none"> Understand the Ecosystem - Definition and types, Detailed study of pond ecosystem, Food chain, food web and ecological pyramids, Energy flow in an ecosystem, Single channel, Y – shape and Universal model. <p>102.3</p> <ul style="list-style-type: none"> To understand the biodiversity and its conservation, Causes of reduction of biodiversity, Wildlife conservation acts (1972 and 1984) Introductory study of national parks and sanctuaries – Tadoba, Kanha Bharatpur and Nagzira, Hot spots of biodiversity in India. <p>102.4</p> <ul style="list-style-type: none"> To understand the Sources, effect and control measures of air pollution Acid rain, greenhouse effect, ozone depletion and global warming Sources, effect and control measures of water pollution, Sources effect and control measures of noise pollution, Toxic effect of heavy metals (lead, cadmium and mercury) – Bioaccumulation and biomagnification
7	Botany Paper-I- Viruses, Prokaryotes, Algae and Biofertilizers (101)	<ul style="list-style-type: none"> To understand the nature of viruses, Ultra-structure and economic importance. Understand the properties of Mycoplasma and its reproduction. Understand general characteristics and reproduction in bacteria To understand general characteristics and classification of algae To understand the to understand general structure of Cyanobacteria and its reproduction Understand life cycle of <i>Chara</i>, <i>Vaucheria</i>, <i>Ectocarpus</i>, and <i>Batrachospermum</i>. To understand Scope and importance of Biofertilizers. Understand the microbes used in biofertilizers
	Paper-II Fungi, Plant Pathology, Li chens, Bryophyta and Mushroom Cultivation (102)	<ul style="list-style-type: none"> Understand the Characteristics of fungi. Understand the reproduction and life cycle of <i>Albugo</i>, <i>Muco</i>, <i>Puccinia</i> and <i>Cercospora</i>. Pathogen study, control and causes of diseases: leaf curl of papaya, Citrus canker and red rot of sugarcane Understand classification and general characteristics of Bryophyta. Life history of <i>Marchantia</i>, <i>Anthoceros</i> and <i>Funaria</i> To Study the nutritional and medicinal values of edible and non-edible mushrooms. Technology of mushroom cultivation
	Botany Practical Course	<ul style="list-style-type: none"> Study the fungal genera. Study the lichens, thallus structure and types of lichens. Plant pathological study. Study of bryophytes and identification of its characteristics. Preparation of mushroom beds.
Second- Semester		
8	English	The students will be able:

		<ul style="list-style-type: none"> To understand the values of dignity and courage through the characters of the text. To realize that the ascent of humanity, synthesis of science and spirituality, both are required. To apply phrasal verbs in their writings.
9	Marathi	<ul style="list-style-type: none"> विद्यार्थ्यांमध्ये साहित्य विषयक आवड निर्माण करणे वाचन संस्कृतीचा पुरस्कार करणे भारतीय संविधानाचे महत्व समजावून सांगणे मानवी मुल्यांची जपणूक करणे कविता लंखनाचे तंत्र अवगत करणे पर्यावरण विषयक जागृती निर्माण करणे व्यावहारिक मराठीचे महत्व समजावून सांगणे
10	Chemistry Paper -I Organic Chemistry (201)	<p>201.1</p> <ul style="list-style-type: none"> To make student understand different organic compounds and the concept structure and bonding in organic compounds. Understand mechanism of organic reaction <p>201.2</p> <ul style="list-style-type: none"> Understand the concept of stereochemistry of organic compounds. To make the structure of Geometrical isomerism and conformational isomerism <p>201.3</p> <ul style="list-style-type: none"> Many of the daily used materials are organic compounds and majority of them are hydrocarbons therefore this topic makes the concept regarding their information <p>201.4</p> <ul style="list-style-type: none"> Basic of the alkane and alkynes with respect to their chemical point of view. To understand the aromaticity of organic compounds
	Paper-II Physical Chemistry (202)	<p>202.1</p> <ul style="list-style-type: none"> To understand the thermodynamics of chemical reactions. Understand free energy functions like work function, Gibb's free energy etc. <p>202.2</p> <ul style="list-style-type: none"> To understand the concept of phase equilibria. Statement of phase rule and term. Application of phase rule. <p>202.3</p> <ul style="list-style-type: none"> Understand the concept of nuclear chemistry and molecular structure <p>202.4</p> <ul style="list-style-type: none"> To Understand the concept of chemical kinetics and theories of chemical kinetics.
	Chemistry Practical course	<p>203</p> <ul style="list-style-type: none"> Verify theoretical principles experimentally Interpret the experimental data

		<ul style="list-style-type: none"> • Improve analytical skills • Correlate the theory and experiments and understand their importance
11	Physics Paper 1: Oscillations, Kinetic theory of gases and Thermodyna mics (201)	201.1 <ul style="list-style-type: none"> • To understand the concept of linear and angular S.H.M., Damped harmonic oscillator. 201.2 <ul style="list-style-type: none"> • To understand the concept of Forced oscillation with one degree of freedom and kinetic theory of gasses. 201.3 <ul style="list-style-type: none"> • To understand the Transport phenomenon in gases, Zeroth and First law of thermodynamics and Cornet's Theorem. 201.4 <ul style="list-style-type: none"> • To understand second and third law of thermodynamics and Maxwell's general relationship and its applications.
	Paper 2: Gravitation, Astrophysics, Magnetism and Magnetostatics (202)	202.1 <ul style="list-style-type: none"> • To understand Newton's laws of gravitation and the concept of Gravitational self-energy of the galaxy. 202.2 <ul style="list-style-type: none"> • Know the constituents of universe (Solar system, Stars, Galaxies) and some physical aspects of the universe. 202.3 <ul style="list-style-type: none"> • To understand the concepts of Diamagnetism, Para magnetism and Ferromagnetism and their applications. 202.4 <ul style="list-style-type: none"> • To understand the Concept of magnetic field and to study various laws of magneto static and their applications.
	Physics Practical (203)	<ul style="list-style-type: none"> • Apply and demonstrate the theoretical concepts of Physics and to develop scientific attitude.
12	Mathematics- I Geometry, Differential and Difference Equations (201)	201.1 <ul style="list-style-type: none"> • Understand the concept of Solid Geometry. 201.2 <ul style="list-style-type: none"> • Understand the concept of Families of curves and orthogonal trajectories. 201.3 <ul style="list-style-type: none"> • Understand the Second order linear differential equations with constant coefficient. 201.4 <ul style="list-style-type: none"> • Understand the basic concept of Difference equation.
	Mathematics- II Vector Analysis (202)	202.1 <ul style="list-style-type: none"> • Students learn the concept of Vector differentiation and Differential Geometry. 202.2 <ul style="list-style-type: none"> • Learn the evaluation of area by double Integral and Relation between Beta and Gamma function. 202.3 <ul style="list-style-type: none"> • Apply integration to evaluate over Line, surface and volume. 202.4

		<ul style="list-style-type: none"> Understand the Greens theorem in the plane and its application, Gauss Divergence theorem and Stokes Theorem
13	Zoology I & II Paper -I Life and Diversity of Animals – Non-chordates (Arthropoda to Hemichordata) (201)	201.1 <ul style="list-style-type: none"> To understand the, Arthropoda: General characters and classification up to classes, Cockroach: Mouth parts, digestive system and reproductive system, Insects as Vectors: Mosquito, Housefly, Sandfly, Tse-Tse fly, Study of crustacean larvae: Nauplius, Zoea and Megalopa; Social behavior in honey bees. 201.2 <ul style="list-style-type: none"> To understand the Mollusca: General characters and classification up to classes, <i>Pila</i>: Morphology, digestive, respiratory and reproductive system, Pearl formation in Mollusca, Molluscan larvae: Glochidium and Veliger. 201.3 <ul style="list-style-type: none"> To understand the Echinodermata: General characters and classification up to classes, <i>Asterias</i>: External features and digestive system, Water vascular system and locomotion in Starfish, Echinoderm larvae: Bipinnaria and Auricularia. 201.4 <ul style="list-style-type: none"> To understand Hemichordata: General characters and phylogeny, <i>Balanoglossus</i>: External features and digestive system, Reproduction in <i>Balanoglossus</i>, Tornaria larva, Affinities of <i>Balanoglossus</i>.
	Paper-II Cell Biology (202)	202.1 <ul style="list-style-type: none"> To understand Ultrastructure of prokaryotic and eukaryotic cell, Plasma membrane: Structure- Fluid Mosaic Model and functions, Endoplasmic reticulum: Types, ultrastructure and functions, Golgi complex: Ultrastructure and functions. 202.2 <ul style="list-style-type: none"> To understand Ultrastructure of mitochondria, Oxidative phosphorylation – Glycolysis and Krebs's cycle, Electron Transport Chain and terminal oxidation, Lysosome: Structure, polymorphism and functions. 202.3 <ul style="list-style-type: none"> To understand the Nucleus: Ultrastructure of nuclear membrane, Structure and functions of nucleolus, Chromosome: Structure and types, structure of nucleosome, Giant chromosomes: Lamp-brush and polytene chromosome. 202.4 <ul style="list-style-type: none"> To understand the Ribosome: Structure, types, Lake's model and functions, Somatic cell division: Cell cycle and Mitosis, Meiosis (different phases and significance), synaptonemal complex, Cellular aging and cell death, Elementary idea of cancer and its causative agents.
14	Botany Paper-I	<ul style="list-style-type: none"> To make student understand fossils, Pseudo fossils, and its importance. Knowledge about types of fossils.

	Paleobotany, Pteridophytes ,Gymnosper msand Soil analysis	<ul style="list-style-type: none"> ● Details of Geological time scale. ● Differentiation among the types of fossils. ● Study the general characteristics of Pteridophytes and its classification. ● Life history of <i>Selaginaella</i>. And <i>Equisetum</i>. ● Classify the Gymnosperms, its characteristics and economic importance. ● Understand the fossil gymnosperm. ● Study the life cycle of <i>Cycas</i> and <i>Pinus</i> ● Skill development and soil analysis. ● Identification of types of soil on the basis of its color and texture. ● Study the physical properties of soil. ● Understand the pH of soil and nitrogen availability in it.
	Botany Paper-II Morphology of Angiosperms and Floriculture	<ul style="list-style-type: none"> ● Study the morphological characteristics of plants. ● Identification of morphological characters of plants. ● Study the modification occur in root, stem and leaf. ● Study the reproductive morphology. ● Study the types of inflorescences. ● Study the calyx, corolla and Androecium ● Understand the structure of gynoecium. ● Study the fruit and its types. ● Develop the skills of floriculture and cultivation. ● Method of cultivation.
	Botany Practical course	<ul style="list-style-type: none"> ● Study of different root and stem modification and branching patterns. ● Study the types of leaf and its phyllotaxy, venation and modification. ● Understand the flower structure and position of calyx, corolla, androecium and gynoecium.
Third- Semester		
15	Chemistry- I Paper-I Inorganic Chemistry (301)	301.1 <ul style="list-style-type: none"> ● Understand the concept of molecular orbital theory and VSEPR theory 301.2 <ul style="list-style-type: none"> ● Understand the properties of d and f block elements. 301.3 <ul style="list-style-type: none"> ● Understand the role of nonaqueous solvents. ● Understand concept of errors and evaluation in chemical analysis. 301.4 <ul style="list-style-type: none"> ● Understand the concept of chemistry of Lanthanides and Actinides series.
	Paper-II Organic Chemistry (302)	302.1 <ul style="list-style-type: none"> ● Understand the structure and chemical bonding in aryl, alkyl halides, aldehydes 302.2 <ul style="list-style-type: none"> ● Understand the structure and chemical bonding in alcohols and phenols.

		<p>302.3</p> <ul style="list-style-type: none"> Understand the nomenclature, structure of the carbonyl group, synthesis of aldehydes and ketones <p>302.4</p> <ul style="list-style-type: none"> Understand chemical reaction of carboxylic acids and its derivatives.
	<p>Chemistry</p> <p>Practical Course</p>	<p>303</p> <ul style="list-style-type: none"> Verify theoretical principles experimentally Interpret the experimental data Improve analytical skills Correlate the theory and experiments and understand their importance
16	<p>Physics</p> <p>Paper- 1</p> <p>Sound Waves, Applied Acoustic, Ultrasonic and Power Supply (301)</p>	<p>301.1</p> <ul style="list-style-type: none"> Understand the concept of group and phase velocities, formation of standing waves and diagrammatic introduction of human ear and its responses. <p>301.2</p> <ul style="list-style-type: none"> Understand the working of transducers and their characteristics and the concept of acoustic and its applications. <p>301.3</p> <ul style="list-style-type: none"> Understand the production and applications of ultrasonic waves. <p>301.4</p> <ul style="list-style-type: none"> Understand the concept of voltage regulation and working of half, full and bridge rectifier.
	<p>Paper -II</p> <p>Physical Optics and Electromagnetic Waves (302)</p>	<p>302.1</p> <ul style="list-style-type: none"> Understand the concept of interference of light through thin film Apply the concept of interference of light through thin film in wavelength determination. <p>302.2</p> <ul style="list-style-type: none"> Understand the concept of diffraction, Resolving Power of grating and Rayleigh's criterion for resolution. <p>302.3</p> <ul style="list-style-type: none"> Understand the concept of polarization and double refraction. <p>302.4</p> <ul style="list-style-type: none"> Understand the origin and characteristics of EM waves, Physical significance of Maxwell's equations, Characteristics impedance of dielectric and Poynting theorem.
	<p>Physics Practical (303)</p>	<p>303</p> <ul style="list-style-type: none"> Apply and demonstrate the theoretical concepts of Physics and to develop scientific attitude.
17	<p>Mathematics- I</p> <p>Partial Differential equation and Calculus of Variation (301)</p>	<p>301.1</p> <ul style="list-style-type: none"> Students understand First order partial differential equation and solutions of pfaffian differential equation. <p>301.2</p> <ul style="list-style-type: none"> Learn about Integral surface passing through a given curve. <p>301.3</p> <ul style="list-style-type: none"> Understand the concept of PDEq of second order and Linear PDEq with constant coefficient. <p>301.4</p> <ul style="list-style-type: none"> Understand the concept of Calculus of Variation.

	<p>Mathematics- II</p> <p>Modern Algebra (302)</p>	<p>302.1</p> <ul style="list-style-type: none"> • Understand the concept of Group theory and properties. <p>302.2</p> <ul style="list-style-type: none"> • Students understand the concept of Normal subgroup, Quotient group. <p>302.3</p> <ul style="list-style-type: none"> • Students understand the definition and examples of Ring theory. <p>302.4</p> <ul style="list-style-type: none"> • Students develop more knowledge in Ring theory
18	<p>Zoology I & II</p> <p>Paper-I</p> <p>Life and Diversity of Animals - Chordates (Protochordate to Amphibia) (301)</p>	<p>301.1</p> <ul style="list-style-type: none"> • Understand the Protochordata : General characters and classification up to order, <i>Herdmania</i> : Structure, digestive system, ascidian tadpole and retrogressive metamorphosis, <i>Amphioxus</i> : Structure, digestive system, circulatory system, sense organs and protonephridia, Agnatha : General characters of Cyclostomata (<i>Petromyzon</i> and <i>Myxine</i>). <p>301.2</p> <ul style="list-style-type: none"> • Understand the Pisces : Salient features of Chondrichthyes and Osteichthyes, Origin of paired fins in fishes, Migration and Accessory respiratory organs in fishes, Amphibia : General characters and classification up to order, Parental care and Neotony in Amphibia. <p>301.3</p> <ul style="list-style-type: none"> • Understand the Gametogenesis and type of eggs, Fertilization of egg, Post fertilization development of fish, Types of scales of fishes, Development of placoid scales. <p>301.4</p> <ul style="list-style-type: none"> • Understand the Frog Embryology - Cleavage, blastulation and gastrulation, Fate map, Morphogenetic movements in gastrula of frog, Development of respiratory organs in frog, Development of Aortic arches of frog
	<p>Paper-II</p> <p>Organic Zoology (302)</p>	<p>302.1</p> <ul style="list-style-type: none"> • Understand the Mendelian Principles- Dominant recessive relationships, Mendelian laws, Interaction of genes- Epistasis - dominant and recessive, codominance, incomplete dominance, Quantitative genetics – Polygenic traits, inbreeding and outbreeding, hybrid vigor, Extracellular genome – Presence and functions of mitochondrial DNA, plasmids. <p>302.2</p> <ul style="list-style-type: none"> • Understand the concept of Cytoplasmic inheritance- <i>Kappa</i> particles in <i>Paramecium</i>, CO₂ sensitivity in <i>Drosophila</i>, milk factor in mice, Linkage and crossing over – Basic concepts of linkage, types and theories, Concepts of genes – Cistron, muton and recon, Genetic disorders in human beings – Haemoglobin disorders – Thalassemia and Sickle cell anemia. Metabolic disorder: Phenylketonurea. <p>302.3</p> <ul style="list-style-type: none"> • Understand the concept of Sex determination – ZZ, XY, XO, ZW pattern, Sex determination in <i>Drosiphila</i> – Genic balance theory, Environmental sex determination in <i>Bonellia</i>, Chromosomal aberrations: addition, deletion, duplication and inversion, Gene mutations- Spontaneous and induced mutations, mutagenic agents,

		<p>Disorders related to chromosomal number- Turner syndrome, Klinefelter syndrome and Down syndrome.</p> <p>302.4</p> <ul style="list-style-type: none"> Understand the Lethal genes – Concepts and consequences, Population genetics: Basic concepts in population genetics, Hardy Weinberg equilibrium and its significance, Genetic counseling – Introduction, purpose, hereditary diseases and disorders, Applied genetics - DNA fingerprinting, amniocentesis, sperm banks, karyotyping
19	<p>Botany Paper - I Angiosperm Systematics, Embryology and Indoor Gardening (301)</p>	<ul style="list-style-type: none"> Understand the study of angiosperms, Fossil angiosperms, Angiosperms taxonomy. Understand the nomenclature. Study the trends in taxonomy. Understand the classification system of Bentham and Hooker, Engler and Prantle. Study the types of pollination and its significance Study the structure of anther, pollen grain and male gametophyte development. Study the types of ovules and female gametophyte. Understand the fertilization process. Study the skills of landscaping and gardening.
	<p>Paper-II Angiosperm anatomy and Horticulture (302)</p>	<ul style="list-style-type: none"> Understand anatomical features of plants and its organs. Study the tissue its types and functions. Study the primary and secondary growth in stem and root. Study the periderm growth rings, sap heartwood, leaf anatomy. Study the Senescence and Abscission. Study the techniques of horticulture, methods of propagation. Learn the technique of bonsai preparation.
	<p>Botany Practical Course</p>	<ul style="list-style-type: none"> Study the simplest and complex tissue from permanent micro-preparation. Identification of types of vascular bundle. Anatomy of Dicot and Monocot stem with temporary or double stained Study the internal structure of dicot and monocot leaf.
Fourth- Semester		
20	<p>Chemistry -I Paper-I Inorganic Chemistry (401)</p>	<p>401.1</p> <ul style="list-style-type: none"> Understand the properties of coordination compounds. Chelates: classification and their application and valence bond theory of complexes. <p>401.2</p>

		<ul style="list-style-type: none"> Understand the concept of isomerism in coordination compounds. Concept of oxidation and reduction and balancing of redox reaction. <p>401.3</p> <ul style="list-style-type: none"> Understand the concept of colorimetry and spectrophotometry. Understand the concept of separation technique like chromatography ion exchange and solvent extraction. <p>401.4</p> <ul style="list-style-type: none"> Understand the concept of inorganic polymers.
	Paper-II Physical Chemistry (402)	<p>402.1</p> <ul style="list-style-type: none"> Understand solid state and their classification and their laws. To understand the concept of determination of crystal structure. <p>402.2</p> <ul style="list-style-type: none"> Understand electrochemistry of reversible and irreversible cells. Understand the concept of electrical transport and transport number. <p>402.3</p> <ul style="list-style-type: none"> Use spectroscopy for chemical analysis. Understand types of spectroscopies. <p>402.4</p> <ul style="list-style-type: none"> Understand the concept of quantum chemistry and wave function.
	Chemistry Practical Course	<p>403</p> <ul style="list-style-type: none"> Verify theoretical principles experimentally Interpret the experimental data Improve analytical skills Correlate the theory and experiments and understand their importance.
21	Physics Paper -1 Solid State Physics, X-ray and Laser (401)	<p>401.1</p> <ul style="list-style-type: none"> Understand the basic concept of crystallography, find various lattice parameters, find Miller Indices of the given plane and draw planes from the set of Miller Indices. <p>401.2</p> <ul style="list-style-type: none"> Understand main feature of continuous X-ray spectra and Characteristics X-ray spectra Apply Moseley's law to determine wavelength of X-ray. <p>401.3</p> <ul style="list-style-type: none"> Understand the basic concept of solid-state physics. Apply Bragg's law for wavelength determination and simple cubic structure determination. Calculate Miller indices of the given plane and identify the orientation of the plane from the given set of Millar indices. <p>401.4</p> <ul style="list-style-type: none"> Understand the concepts of LASER emission. Understand the construction and working of various types of LASER
	Paper-II Solid State Electronics, and Molecular Physics (402)	<p>402.1</p> <ul style="list-style-type: none"> Understand the construction and working and characteristics of various solid-state devices. <p>402.2</p> <ul style="list-style-type: none"> Understand the construction and working and characteristics of various FETs. <p>402.3</p>

		<ul style="list-style-type: none"> • Understand the concept of molecular physics. 402.4 <ul style="list-style-type: none"> • Understand and apply the Raman spectroscopy.
	Physics Practical (403)	403 <ul style="list-style-type: none"> • Apply and demonstrate the theoretical concepts of Physics and to develop scientific attitude.
22	Mathematics-I Real Analysis (401)	401.1 <ul style="list-style-type: none"> • Understand the concept of ordinary Differential Equations in more than two variables. 401.2 <ul style="list-style-type: none"> • Understand the Definition, types and examples of Sequences. 401.3 <ul style="list-style-type: none"> • Use Tests for convergence. 401.4 <ul style="list-style-type: none"> • Understand the concept of Riemann Integration and properties of integrable functions.
	Mathematics-II Mathematical Methods (402)	402.1 <ul style="list-style-type: none"> • Students learn about Power series solutions. 402.2 <ul style="list-style-type: none"> • Understand the Legendres and Bessels Function 402.3 <ul style="list-style-type: none"> • Understand the concept of Laplace transformation and properties. 402.4 <ul style="list-style-type: none"> • Understand the concept of Fourier series with Even and Odd Functions
23	Zoology I & II Paper-I Life and Diversity of Animals – Chordates (Reptilia, Aves and Mammals) (401)	401.1 <ul style="list-style-type: none"> • Understand the Reptilia- Classification based on temporal vacuities, Poison apparatus, biting mechanism, snake venom and its importance, Aves – Comparison of Ratitae and Caranitae, Flight adaptations and migration, Mammals – General characters of Prototheria, Metatheria and Eutheria. 401.2 <ul style="list-style-type: none"> • Understand the Modern theories of evolution: Darwinism and Neo-Darwinism, Adaptations – Cursorial, Aquatic, Terrestrial, Fossorial and Volant, Introduction to genetic basis of evolution – Species Deme, Variation, Races in Man (Caucasoid, Negroid, Mongoloid and Australoid). 401.3 <ul style="list-style-type: none"> • Understand the Comparative account of aortic arches and heart in Reptiles, Birds and Mammals, Structure of hen's egg, Development of chick up to primitive streak stage, Development of extra embryonic membranes in chick and functions. 401.4 <ul style="list-style-type: none"> • Understand the Frog Embryology - Cleavage, blastulation and gastrulation, Fate map, Morphogenetic movements in gastrula of frog, Development of respiratory organs in frog, Development of Aortic arches of frog.
	Paper-II	402.1

	<p>Molecular Biology and Immunology (402)</p>	<ul style="list-style-type: none"> Understand the DNA: Structure of DNA, forms of DNA, properties of DNA, DNA as a genetic material, RNA: Structure of RNA, types of RNA, RNA as a genetic material, Prokaryotic and eukaryotic gene structure, Recombination in Bacteria: Bacterial transformation – Griffith’s experiment, Conjugation in bacteria, transduction. <p>402.2</p> <ul style="list-style-type: none"> Understand the concept DNA replication: Semiconservative model, Meselson Stahl experiments. Process of replication – origin of replication, concept of replication, directionality of replication, Genetic code: Characteristics of genetic code, Wobble hypothesis, Protein synthesis: Transcription mechanism Initiation, elongation and termination of transcription. Translation – activation of amino acids, transfer of activated amino acids to tRNA, Initiation, elongation and termination of polypeptide chain; inhibitors of protein synthesis, Gene regulation models - Lac operon and tryptophan operon. <p>402.3</p> <ul style="list-style-type: none"> Understand the Concepts of immunity – Innate and acquired immunity, organs of the immune system, Antigen - Structure, diversity, functions and types of antigens, Antibody- Structure, types and functions, Antigen-antibody interaction – Precipitation and agglutination. <p>402.4</p> <ul style="list-style-type: none"> Understand the Types of immune response: B cell response (antibody mediated), T cell response (cell mediated), Complement system: Basic concepts of complement cascades, classical, alternative and MBL pathways, implications of complement system in immune defense, Cytokines- General account on cytokines, Cytokine related diseases, Autoimmunity and immunodeficiencies- Autoimmune diseases and their treatment, AIDS and other immunodeficiencies
<p>24</p>	<p>Botany -I Paper-I Cell biology, Plant Breeding, Evolution, and Technology (401)</p>	<ul style="list-style-type: none"> Understand the brief account of cell theory. Comparison between eukaryotic and prokaryotic cell. Structure and function of cell wall, Endoplasmic reticulum, Golgi complex, plasma membrane, Ribosome and Vacuole. Understand the structure and functions of chloroplast, Mitochondria and Nucleus. Understand the chromosome morphology, Molecular organization of chromosomes. Understand the sex chromosomes and cell division process. Understand plant breeding, methods of plant breeding. Understand the biostatistics and determine the Mean, Mode, Median. Understand the evolution process. Understand the seed development technology which is used to increase a commercial value of seeds.

	Paper-II Genetics, Molecular Biology and Plant Nursery	<ul style="list-style-type: none"> • Understand the principle of Mendelism. • Understand the linkage and crossing over process. • Understand the Mutation, chromosomal aberrations and variation in chromosome number. • Understand the DNA damage and repair process. • Study the concept of DNA and RNA. • Understand the concept of gene, genetic code. • Understand the process of protein synthesis and regulation of gene interaction. • Study the skill development. • Develop the skills related with plant nursery. • Understand the nursery management techniques.
	Botany Practical Course	<ul style="list-style-type: none"> • Study the Mendel's law of segregation with help of color beads. • Prove the Mendel's law of independent assortment. • Study the different method of vegetative propagation. • Study the method of soil sterilization for plant nursery.
Fifth- Semester		
25	Chemistry- I Paper-I Organic Chemistry (501)	<p>501.1</p> <ul style="list-style-type: none"> • Understand the concept of organic compounds of nitrogen and amines. <p>501.2</p> <ul style="list-style-type: none"> • Understand heterocyclic compounds and their structure <p>501.3</p> <ul style="list-style-type: none"> • Understand quantitative analysis: Estimation of carbon, hydrogen and nitrogen etc. • Understand reaction and structure of organometallic compounds <p>501.4</p> <ul style="list-style-type: none"> • To study Spectroscopy. • To understand Electromagnetic and Infrared absorption spectroscopy
	Paper-II Physical Chemistry (502)	<p>502.1</p> <ul style="list-style-type: none"> • Understand electrochemistry and various types of cells. • Understand types of reversible electrodes <p>502.2</p> <ul style="list-style-type: none"> • Understand quantum chemistry and molecular orbital theory. <p>502.3</p> <ul style="list-style-type: none"> • Understand the concept of Photochemistry. • To study Raman Spectroscopy. <p>502.4</p> <ul style="list-style-type: none"> • To understand colligative properties and macromolecules.
	Chemistry	<ul style="list-style-type: none"> • Verify theoretical principles experimentally

	Practical Course (503)	<ul style="list-style-type: none"> • Interpret the experimental data. • Improve analytical skills • Correlate the theory and experiments and understand their importance
26	Paper-I Atomic Physics, Free Electron Theory and Statistical Physics (501)	<p>501.1</p> <ul style="list-style-type: none"> • Understand Vector atom Model, the concept of space quantization Zeeman Effect and L-S and J-J coupling. <p>501.2</p> <ul style="list-style-type: none"> • Apply free electron theory and band theory of solid to classify solids as conductor, semiconductor and insulator. <p>501.3</p> <ul style="list-style-type: none"> • Understand and apply Maxwell-Boltzmann statistics. <p>501.4</p> <ul style="list-style-type: none"> • Understand and apply Bose-Einstein statistics and Fermi-Dirac statistics
	Paper-II Quantum Mechanics, Nanomaterials and Nanotechnology (502)	<p>502.1</p> <ul style="list-style-type: none"> • Understand the basics of quantum mechanics and apply it to explain the phenomena like black body radiation and Compton Effect. <p>502.2</p> <ul style="list-style-type: none"> • Understand and apply Schrodinger's equation to free particle in a one and three dimension. <p>502.3</p> <ul style="list-style-type: none"> • Understand the basics of nanotechnology. <p>502.4</p> <ul style="list-style-type: none"> • Understand the synthesis and characterization techniques of nanomaterials.
	Physics Practical (503)	<p>503</p> <ul style="list-style-type: none"> • Apply and demonstrate the theoretical concepts of Physics and to develop scientific attitude.
27	Mathematics-I Analysis (501)	<p>501.1</p> <ul style="list-style-type: none"> • Understand the concept of Fourier series. <p>501.2</p> <ul style="list-style-type: none"> • Understand the concept of Riemann-Stieltjes integral. <p>501.3</p> <ul style="list-style-type: none"> • Understand the concept of Analytics Functions. <p>501.4</p> <ul style="list-style-type: none"> • Students learn about Mobius Transformation
	Mathematics-II Metric spaces, Complex Integration & Algebra (502)	<p>502.1</p> <ul style="list-style-type: none"> • Students deal with the definition, properties and examples of countable and uncountable sets and understand the metric space. <p>502.2</p> <ul style="list-style-type: none"> • Understand the concept of Completeness, Compactness and Connectedness. <p>502.3</p> <ul style="list-style-type: none"> • Understand the concept of Ring • Analyze and demonstrate examples of ideals and quotient rings. <p>502.4</p>

		<ul style="list-style-type: none"> • Understand the basic concept of Complex Integration • Evaluate integrals along a path - directly from the definition and also via the Fundamental Theorem of Contour Integration and Cauchy's Theorem
28	Zoology I & II Paper-I General Mammalian Physiology –I (501)	501.1 <ul style="list-style-type: none"> • Understand the Enzymes – Distribution and chemical nature of enzymes, General properties of enzymes, Classification of enzymes, Factors affecting enzyme activity. 501.2 <ul style="list-style-type: none"> • Understand the Structure and functions of digestive glands - (Salivary, Gastric, Intestinal, Liver and Pancreas), Gastrointestinal hormones, Digestion and absorption of proteins, carbohydrates and lipids, Vitamins- Fat soluble and water-soluble vitamins; Sources, deficiency and diseases. 501.3 <ul style="list-style-type: none"> • Understand the Respiratory pigments - Types, distribution and properties, Mechanism of Respiration, Transport of O₂ and CO₂, Respiratory disorders and effects of smoking. 501.4 <ul style="list-style-type: none"> • Understand the Composition and functions of blood, Blood clotting – Intrinsic and extrinsic factors, blood groups and Rh factor, Cardiac cycle, E.C.G. and Blood pressure.
	Paper-II Physical Zoology (502)	502.1 <ul style="list-style-type: none"> • Understand Site selection and construction, Pre stocking and post stocking management of nursery, rearing and stocking ponds, Breeding of fishes by bund and Chinese hatcheries. Induced breeding by hypophysetion. New generation drugs in induced breeding, Brief study of freshwater aquaculture system – Polyculture, cage culture, sewage fed fish culture, integrated fish farming, Fish products and byproducts, Fish preservation. 502.2 <ul style="list-style-type: none"> • Understand the Prawn culture and Pearl culture, Fabrication and setting up of aquarium and its maintenance, Breeding of aquarium fishes – Live bearers and egg layers, Diseases caused by fungi, bacteria, protozoa and helminthes. 502.3 <ul style="list-style-type: none"> • Understand the concept Chemical control : Insecticides - Pyrethroids, carbamate and HCN – mode of action, merits and demerits, Biological control – Biological agents – predators and parasites; merits and demerits, Crop pest: Life cycle, damage and control of Cotton spotted boll worm -<i>Earias vitella</i>, Stored grain pest- Rice Weevil, <i>Sitophilus oryzae</i> , Animal pest: Life cycle, damage and control of – House fly – <i>Musca nebulo</i>, Stable fly – <i>Stomoxys calcitrans</i>.
		502.4 <ul style="list-style-type: none"> • Understand the Sericulture- Types of Silkworm. Life cycle and rearing of mulberry silkworm, <i>Bombyx mori</i>, Life cycle and rearing of non mulberry silkworm (Tasar), <i>Antheraea mylitta</i> ; Brief idea of coccon

		<p>processing for silk fabric - cocoon boiling, reeling, rereeling, winding, doubling, twisting and weaving, Apiculture – Types of honey bees. Life cycle, culture, movable frame hive, bee product and its economic importance, Lac culture – Lac insect, <i>Laccifer lacca</i> - Life cycle, Lac processing, Lac products and Economic Importance.</p>
29	<p>Botany Paper-I Plant physiology, Mineral Nutrition and Hydroponics</p>	<ul style="list-style-type: none"> ● Understand water relation and its significance. ● Understand the Osmosis, Diffusion, Osmotic Pressure. ● Understand the ascent of sap. ● Understand the transpiration, phloem transport and mineral uptake. ● Understand the photosynthesis process, photosynthetic pigments. ● Understand the light and dark reaction of photosynthesis. ● Understand the respiration and its mechanism. ● Understand the fermentation process. ● Understand the nitrogen fixation by symbiotic and non-Symbiotic mechanism. ● Study the plant movements and photoperiodism. ● Study the circadian rhythms and Biological Clock. ● Understand the mineral nutrition, source and types. ● Study the role and deficiency symptoms Macronutrients and Micronutrients. ● Study the hydroponics, advantages and disadvantages of hydroponics.
	<p>Paper-II Plant Ecology and Organic Farming</p>	<ul style="list-style-type: none"> ● Understand the concept of Ecology. ● Study the climatic, Edaphic and Physiographic factors. ● Study the ecosystem, components of Ecosystem. ● Understand the food chain, food web and ecological pyramids. ● Study the Autecology and Synecology. ● Understand the process of succession. ● Study the plant adaptations. ● Study the Biogeochemical cycles. ● Develop the skills of organic farming. ● Understand the methods of recycling of biodegradable kitchen, agriculture and industrial waste. ● Study to prepare organic manure.
	<p>Botany Practical</p>	<ul style="list-style-type: none"> ● Determining the Frequency, Density, and Abundance of community by Quadrature Method. ● Determining the homogeneity of vegetation by Raunkier's frequency. ● Study the frequency of herbaceous species in grassland to compare the frequency distribution with Raunkier's standard frequency diagram. ● Study the soil profile of different locations near by area. ● Study the salinity of different water samples.
Sixth- Semester		
30	<p>Chemistry- I Paper-I</p>	<p>601.1</p> <ul style="list-style-type: none"> ● Understand Metal ligand bonding in Transition Metal complexes.

	Inorganic Chemistry (601)	<ul style="list-style-type: none"> • Electronic spectra of Transition Metal Complexes. 601.2 <ul style="list-style-type: none"> • Understand Magnetic Properties of Transition metal Complexes. • To study thermodynamic and kinetic aspect of metal complexes. 601.3 <ul style="list-style-type: none"> • Understand organometallic chemistry. • Understand properties and structure of metal carbonyls 601.4 <ul style="list-style-type: none"> • To study Bio-organic chemistry • Understand the concept of s Hard and Soft acids and bases.
	Paper-II Organic Chemistry (602)	602.1 <ul style="list-style-type: none"> • Understand NMR Spectroscopy 602.2 <ul style="list-style-type: none"> • Understand Organic Synthesis via Enolates. • Carbohydrates: classification, reaction and mechanisms. 602.3 <ul style="list-style-type: none"> • Understand Amino acids, peptides and nucleic acids. To study Fats, oil and detergents. 602.4 <ul style="list-style-type: none"> • Understand synthetic dyes, synthetic drugs, synthetic polymer
	Chemistry Practical Course (603)	<ul style="list-style-type: none"> • Verify theoretical principles experimentally • Interpret the experimental data • Improve analytical skills • Correlate the theory and experiments and understand their importance
31	Paper-I Relativity, Nuclear Physics and Bio Physics (601)	601.1 <ul style="list-style-type: none"> • Understand the postulates of the special theory of relativity. • Apply the concept of relativity to explain Length contraction, Time dilation, Velocity addition theorem, Variation of mass with velocity Mass energy equivalence. 601.2 <ul style="list-style-type: none"> • Understand the concept of nuclear physics. 601.3 <ul style="list-style-type: none"> • Apply the concept of nuclear physics to explain various decay processes 601.4 <ul style="list-style-type: none"> • Understand the Principle, Construction and working of different bio instruments.
	Paper-II Electronics, Fiber Optics, Communication and Digital Electronics (602)	602.1 <ul style="list-style-type: none"> • Understand the operations and applications of operational amplifiers. 602.2 <ul style="list-style-type: none"> • Understand the various basic structures of optical fibers and basic concept involved in propagation of light waves through optical fiber. 602.3 <ul style="list-style-type: none"> • Understand the concept of amplitude modulation and frequency modulation. 603.4 <ul style="list-style-type: none"> • Understand various number systems. • Construct the truth tables for various logic gates. • Verify De Morgan's theorem

	Physics Practical (603)	<p>603</p> <ul style="list-style-type: none"> Apply and demonstrate the theoretical concepts of Physics and to develop scientific attitude.
32	<p>Mathematics-I Abstract Algebra (601)</p>	<p>601.1</p> <ul style="list-style-type: none"> Understand the concept of Group Automorphism. <p>601.2</p> <ul style="list-style-type: none"> Understand definition and examples of vector spaces. <p>601.3</p> <ul style="list-style-type: none"> Learn about algebra of linear transformation. <p>601.4</p> <ul style="list-style-type: none"> Find range, rank, kernel and nullity of matrix and also study about Inner product spaces
	<p>Mathematics-II Special Theory of Relativity (602)</p>	<p>602.1</p> <ul style="list-style-type: none"> Study the Newtonian Mechanics and understand the concept special theory of relativity. <p>602.2</p> <ul style="list-style-type: none"> Learn the Lorentz transformation and consequences. <p>602.3</p> <ul style="list-style-type: none"> Understand the concept of Tensors and Space –Time structure. <p>602.4</p> <ul style="list-style-type: none"> Study the Mass Energy Equivalence, Energy momentum Tensor and Maxwell’s Equation of Electromagnetic theory in Vacuum
33	<p>Zoology I & II Paper-I General Mammalian Physiology - II</p>	<p>601.1</p> <ul style="list-style-type: none"> Understand the Types of neurons, E.M. structure of neuron, Conduction of nerve impulse, Ultrastructure of striated muscle, Sliding filament theory of muscle contraction, Properties of muscles (Twitch, Tetanus, Tonus, Summation, All or None Principle, Muscle fatigue) <p>601.2</p> <ul style="list-style-type: none"> Understand Structure of uriniferous tubule, Mechanism of urine formation, Counter – current mechanism, Normal and abnormal constituents of urine; Elementary idea of dialysis. <p>601.3</p> <ul style="list-style-type: none"> Understand the Structure and functions of pituitary gland, Structure and functions of thyroid and parathyroid gland, Structure and functions of adrenal gland, Structure and functions of pineal gland. <p>601.4</p> <ul style="list-style-type: none"> Understand the Oestrous and menstrual cycle, Male and female sex hormones, Causes of infertility in male and female, Contraceptives – Mechanical and hormonal; <i>In-vitro</i> fertilization
	<p>Paper-II Applied Zoology –II Biotechniques, Microtechnique, Biotechnology, Bioinformatics and Biostatistics)</p>	<p>602.1</p> <ul style="list-style-type: none"> Understand the Concepts of sterilization: Filtration, autoclaving, dry heat sterilization, wet sterilization and radiation, Separation of biomolecules: Centrifugation (Sedimentation, density gradient); Chromatography (Elementary idea of thin layer, gel filtration and ion exchange - Principles and applications), Electrophoresis: Agarose gel

	(602)	<p>electrophoresis, SDS-PAGE, Principles of colorimeter and spectrophotometers.</p> <p>602.2</p> <ul style="list-style-type: none"> Understand the concept of Fixation, dehydration, clearing, embedding & section cutting, Difficulties encountered during section cutting (causes and remedies), Double staining with Haematoxylin and Eosin, Histochemical staining techniques for carbohydrates (Periodic acid schiff), proteins (Mercury-bromophenol blue) and lipids (Sudan black-B). <p>602.3</p> <ul style="list-style-type: none"> Understand the Basic concepts in recombinant DNA technology, Gene isolation method- Shotgun cloning, Isolation of gene- DNA manipulation enzymes: Nucleases, ligases, polymerases, Basic concepts of cloning vectors and splicing: Insertion of DNA and ligation using blunt ends, cohesive ends, Cloning vectors, Application of biotechnology: Insulin and vaccine production. <p>602.4</p> <ul style="list-style-type: none"> Understand the Bioinformatics: Definition, Basic concepts in bioinformatics, importance and role of bioinformatics in life sciences, Bioinformatics databases- introduction, types of databases, Nucleotide sequence databases, Elementary idea of protein databases, Biostatistics – Tabulation of data, presentation of data, sampling errors, mean, mode, median, probability, standard error and standard deviation
34	<p>Botany Paper-I Biochemistry Biotechnology and Herbal Technology</p>	<ul style="list-style-type: none"> Study the lipids, role of fatty acids, oils and waxes. Study the enzymes its classification and nomenclature. Study the basic concepts of Enzymology. Study the enzyme inhibitors. Study the tissue culture techniques. Study the process of sterilization. Study the preparation of culture media Understand the techniques of genetic engineering. Study the process of DNA library. Study the types of DNA library. Study the Agrobacteria mediated gene transfer. Develop the skills of herbal technology. Study the methods of Cultivation, Harvesting, Understand the technique of dye yielding of herbal plants. Study the used of herbs in cosmetics.
	<p>Paper-II Phytogeography, Utilization of Plants, Techniques and Pharmacognosy</p>	<ul style="list-style-type: none"> Study the phytogeography, climatic regions of India. Study the Environmental pollution. Study the Renewable and Non-Renewable sources. Understand the conservation strategies. Study the morphology, utilization and important chemicals constituents of the plants. Understand the concept of Ethnobotany. Study the principle, types and application of microscope. Study the various techniques.

		<ul style="list-style-type: none"> • Understand synthetic dyes, synthetic drugs, synthetic polymer. • Study the pharmacological plants
	Botany Practical Course	<ul style="list-style-type: none"> • Find out the level of noise pollution of different nearby area with the help of decimeter and compare it with tolerance limit • Study the morphology, utilization, and important chemical constituents of plants. • Study the Ethnobotanical importance of plants. • Study the different adulterants used with reference to drug adultration.



Principal

Bhiwapur Mahavidyalaya