

Programme Outcomes

Course Outcomes

Academic Session2020-2021

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		
	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		
3		Second	10 -	English		
	//	2	ЯС	Marathi		
		AL	12	Political Science		
		6	13	Economics		
			14	English Literature		
+//		6	15	Sociology		
2020-2021	12	and the second se	16	History		
	H		17	Marathi Literature		
	G		18	Ambedkar Thought		
		Third	19	English		
			20	Marathi		
			21	Political Science		
+	Б	मसा		Economics 🗸 🗕 🌙		
			23	English Literature		
			24	Sociology		
	/ /	2	25	History		
		(¹ 0	26	Marathi Literature		
3	4		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		
				•		

	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
	B. Com	First		English
X			2	Marathi
	10.	1000	3	Financial Accounting- I
	75	0	4	Business Organization
	4-	2	5.	Company Law
·			6	Business Economics- I
		Second	7	English
\mathbf{X}	T		8	Marathi
Y \			9	Statistics and Business
			10	Mathematics
		2	10	Business Management
	/ /	16	11	Secretarial Practice
			12	Business Economics- II
		Third	13	English
			14	Marathi
2020-2021			15	Financial Accounting- II
			16	Business Communication
			17	and Management Business Law
			17	
		Fourth		Monetary Economics-I
		Fourth	19	English
			20	Marathi
			21	Financial Accounting-III
			22	Skill Development
			23	Income Tax
		FIG	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
K /	36	Industrial Law

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

X	Ι.	Ar	MILL.	
Session	Course	Semester	Sr. No.	Subject
	B.Sc.	First	1	English
*//	F		2	Marathi
	10	-7	3	Chemistry I & II
	T	(4	Physics I & II
	Ģ		5	Mathematics I & II
		0	6	Zoology I & II
2020-2021			7	Botany I & II
\mathbf{X}		Second	8	English
	<u>ר</u> א	सा म	970	Marathi
			10	Chemistry I & II
			11	Physics I & II
	$ \land \land $	1	12	Mathematics I & II
	$\langle \rangle \rangle$. 07	13	Zoology I & II
	\mathbf{X}		14	Botany I & II
		Third	15	Chemistry I & II
			16	Physics I & II
			17	Mathematics I & II
			18	Zoology I & II
			19	Botany I & II
		Fourth	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

Departmentof 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.उदि्ष्ठ– '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.उदि्ष्ठ–शिक्षण पाठातूनमहात्मा 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.उदिष्ठ–स्वामी विवेकानंदानी सांगीतलेल्या व्यक्तिमत्व विकासाविषयी विद्यार्थ्यांना बोध करणे
- साध्य—सामर्थ्य हेच जीवन व दुर्बलता हाच मृत्यु याखामी विवेकानंदानी युवकांसाठी केलेले मार्गदर्शनाची जाणीव विद्यार्थ्यांनाझाली.
- **प्रकरण –4.उदि्ष्ठ–**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.उदि्ष्ठ**—कोंकराची कथेतून गोखलेंनी लष्करातून पळून आलेल्या शिवरामच्या जीवनाचे चित्रण करणे. **साध्य**—लष्करी पेशातील कडक शिस्तीची माहिती शिवरामच्या व्यक्तिमत्वातून विद्यार्थ्यांनाझाली.

Unit II:

कविता— 1.उदि्ष्ठ—मुकुंदराजानी माय मराठी भाषेचे सांगितलेली महत्व व वैशिष्टयांची ओळखविद्यार्थ्यांना करुण देणे साध्य—माय मराठी कवितेतून मराठी भाषेचे महत्व व मराठीची वैशिष्टये विद्यार्थ्यांना समजून आली.

कविता-2. उदिष्ठ- संत ज्ञानेश्वरांनी सांगीतलेल्या 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 विद्यार्थ्याना झाली.
- कविता– 3.उदि्ष्ठ–दंवाचे थेंब कवितेततून केशवसुतांनी रेखाटलेल्या निसर्गातील घटनांचे वर्णन विद्यार्थ्याना करुन सांगणे.
- **साध्य** आई व मुलगा यांच्यातील संवादातून निसर्गातील विभिन्न घटनांविषयीचे कुतूहल याची माहिती विद्यार्थ्याना झाली.
- कविता– 4.उदि्ष्ठ–भंगू दे काठिन्य माझें कवितेतून परमेश्वराशी जवळीक साधण्याची कविच्या ईच्छेची विद्यार्थ्यांना जाणीव करून देणे.
- साध्य—बा. सी. मर्ढेकरांनी परमेश्वराशी जवळीक साधण्यासाठी स्वतःच्या मर्यादा व उणिवांतून मुक्त होण्यासाठी परमेश्वराशी घातलेल्या संवादाची माहिती विद्यार्थ्यांना मिळाली
- कविता— 5.उदि्ष्ठ—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.उदि्ष्ठ–** 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.उदिष्ठ–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 मुलतत्वाची ओळख विद्यार्थ्यांना झाली.

Department of Political Science Course Objectives and Course Outcomes

Course Objectives

The Students will able;

- To understand the basic concept and ideolthe ogical 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 sociocultural 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

MarathiLiterature

Unit I: माझी जन्मठेप-. वि.दा. सावरकर (आत्मचरित्र)-

उद्षिष्ठ– 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

उदिष्ठ– साहित्याची अभिरुची व साहित्याची निर्मितीची ओळख व माहिती विद्यार्थ्यांना देणे. साध्य–साहित्य प्रकार, अभिरुची व निर्मिती व रसास्वाद याबध्दल 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.उदि्ष्ठ–भारतीय लोकशाहीचे भवितव्य काय? या पाठाच्या आधारे लोकशाहीची माहिती करुन देणे. साध्य– डॉ. बाबासाहेब आंबेडकर यांनी भारतीय लोकशाही आणि जातीव्यवस्थेसंबंधी बहाल केलेल्या विचारांची विद्यार्थ्यांना ओळख पटली व माहिती मिळाली.

प्रकरण – 7.उदि्ष्ठ– 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.उदि्ष्ठ—भारतरत्न अटलबिहारी वाजपेयी यांच्या व्यक्तिमत्वाची ओळख विद्यार्थ्यांना करुन देणे. साध्य—अजातशत्रू अटलजी यांच्या आगळया वेगळया व्यक्तिचित्रणाची शरद पवार यांनी करुन दिलेली ओळख माहिती विद्यार्थ्यांना झाली.

प्रकरण –9.उदिष्ठ–जात चोरीच्या आपत्तीमुळे कोणते संकटे येतात याची जाणीव विद्यार्थ्यांना करुन देणे.

साध्य–बाबुराव बागुल यांनी आपली अस्पृष्य महार ही जात लपविल्यामुळे त्यांना आलेला अनूभवाचे वर्णन विद्यार्थ्यांना समजून आले.

प्रकरण —10.उदिष्ठ— पुर्णिया या बिहार राज्यातील मागसलेल्या ज्ल्हियातील लोकांच्या दुःखी कष्टी जीवनाची माहिती विद्यार्थ्यांना देणे.

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

Unit II:

कविता— 6.उदि्ष्ठ—मुक्त पक्षी या कवितेतू पिंजऱ्यातील पक्षी स्वातंत्र का नाकारतो याचीमाहिती देणे. साध्य— गुलामीची सवय जडल्यामुळे पक्षी पिंज्ऱ्यातून मुक्त केल्यावरही स्वातंत्र नाकारतो याची ज्ञान विद्यार्थ्यांना प्राप्त झाले.

कविता –7.उदिष्ठ– जीवन मरणाबध्दल 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.उदिष्ठ–राष्ट्रसंतांना गरीबाच्या झोपडीमधील सुखाची माहिती विद्यार्थ्यांना देणे

साध्य– महालातील सुखापेक्षा लहानषा झोपडीतील सुख हे महान असल्याची प्रचिती कवितेच्या भावार्थावरुन विद्यार्थ्यांना आली.

कविता— 9.उदि्ष्ठ—माणसाच्या मनातील मोठेपना नाहिसा होण्याची कविची इष्वराकडे केलेली मागणीचे ज्ञान विद्याध्याना देणे.

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

कविता— 10.उदि्ष्ठ—कुसुमाग्रजांच्या कवितेतून मानवी सामर्थ्य निसर्गावर कसे मात करते याची ओळख विद्यार्थ्यांना करून देणं.

साध्य—कवितेतील नायकाचा गंगा नदीच्या पुरामुळे संसार उघ्वस्त होऊनही सराच्या आर्षिवादाची थाप मागणारा नायक प्रतिकूल परिस्थितीवर मात करुन संसार उभा करतो याची विद्यार्थ्यांना प्रेरणा मिळाली.

Unit III:

प्रकरण — 3.उदि्ष्ठ— पत्रलेखनाचे स्वरुप, पत्राचे प्रकार, पत्रलेखाचे घटक, वैषिष्टये व पत्राचा नमूना विद्यार्थ्याना समजावून देणे.

साध्य– विद्यार्थ्यांना पत्राचे स्रुप कसे असते ,घटक कोणते, खजगी पत्रे व कार्यालयीन पत्रे कषी लिहावीत याचे कौषल्य व ज्ञान प्राप्त झाले.

प्रकरण – 4.उदि्ष्ठ–सारांषलेखन कसे करावे व सारांष लेखन करतांना कोणती काळजी घ्यावी व सारांषलेखनाचे फायदे याविषयी विद्यार्थ्याना माहिती देणे.

साध्य– विद्यार्थ्याना सारांषलेखन करण्याची माहिती मिळाली तसेच दिलेल्या सारांषाचे एक तृतियांष लेखन करण्याचे कौषल्य 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 SocialStratification 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 aboutChhatrapati Shivaji and Mughal relationship

5) Why and why Panipat III

Course Objectives

- Tounderstand 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. षिरवाडकर (नाटक)–

उदिष्ठ— नटसम्राट या नाटकातून मानवी जीवनातील कौटुंबिक,सामाजिक व नटस्राट अप्पासाहेब बेलवणकर यांचे संघर्षप्रवण जीवनाची माहिती विद्यार्थ्यांना देणे. साध्य— वि. वा. षिरवाडकरांनी नटसम्राट नाटकात रेखाटलेल्या अप्पासाहेब बेलवणकरांच्या व्यक्तिमत्वाच्या आधरे मानवी जीवनाची षोकांतिका विद्यार्थ्यांना कळली.

Unit II:

साहित्यप्रकार–कादंबरी, चरित्र,आत्मचरित्र. उदि्ष्ठ– 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.उदिष्ठ– तेराव्या षतकातील दृष्टांतपाठातील गद्य भाषाषैली, श्रीचक्रधरस्वामीचे चरित्र, महानूभाव पंथा विषयी माहिती देणे.

साध्य– दृष्टांतपाठातील गद्य भाषाषैली, श्रीचक्रधरस्वामीचे चरित्र, महानूभाव पंथाचे समाजाला दिलेले योगदान विद्यार्थ्यांना समजून आले.

प्रकरण –2.उदिष्ठ–स्त्री परुष तलना या पाठातन ताराबाई षिंदे हीने पारतंत्र्यांच्या काळात स्त्रियांच्या नषिबी येणाऱ्या दुर्गुणांची जाणीव करुन देणे.

साध्य– सर्व प्रकारचे दुर्गुण स्त्रियांतच असतात या पुरुषांच्या पूर्वग्रहदूषित विचारांची विद्यार्थ्याना माहिती प्राप्त झाली. प्रकरण –3.उदिष्ठ–यषस्वी वक्ता होण्यासाठी प्र.के.अत्रे यांनी सांगीतलेला अनूभव विद्यार्थ्याना सांगणे.

साध्य– विद्यार्थ्यांनी यषस्वी वक्ता होण्यासाठी अ०यांच्या अनुभवाचा बोध घेतला.

प्रकरण -4.उदिष्ठ-पंढरपूर व विठ्ठलाचे दर्षनाची माहिती विद्यार्थ्यांना करुन देणे.

साध्य – पंढरपूर व पांडुरंगाचे संपूर्ण वर्णन तेथील भैगोलिक परिस्थितीची माहिती विद्यार्थ्यांना प्राप्त झाली. प्रकरण –5.उदिष्ठ–राष्ट्रसंताच्या मते षिक्षक हाच राष्ट्राचा भाग्यविधाता असल्याची खात्री विद्यार्थ्यांना करुन देणे. साध्य- पिक्षकाचे विद्यार्थी, समाजाप्रती केलेल्या संपूर्ण कार्याची व पैक्षणिक कार्याची जाणीव विद्यार्थ्यांना कळली-

Unit II:

कविता–1.उदिष्ठ–संत नामदेवांनी श्रीविठठलाचे वर्णन, विठठलभक्तिचे व नामस्मरणाचेमहात्म्य विद्यार्थ्यांना सांगणे. साध्य–अभंगााच्या निंपनातून विठठलाच्या अनंत लावण्याची षोभा, विठठलभक्तिचे व नामरमरणाचे महात्म्य विद्यार्थ्यांना कळले.

कविता-2.उदिष्ठ- मारोपंतानी सत्संगतीचा वर्णन केलेला महिमा सांगणे.

साध्य– सत्संगतीत समाजजिवनाला उदबोधन करण्याचे सामर्थ्य आहे याची विद्यार्थ्यांना माहिती मिळाली.

कविता–3.उदिष्ठ–भला जन्म हा तुला लाभला यातून राम जोषींनी सांगीतलेल्या मानवी जीवनाचे सार्थकत्व पटविणे.

साध्य– उपदेषपर लावणीतून मानवी जीवनाची सार्थकता विद्यार्थ्यांना पटली.

कविता–4.उदिष्ठ–षेतकरी–कष्टकऱ्यांची जीवनगाथा व परीस्थितीचे वर्णन करणे.

साध्य-विद्यार्थी ग्रामीण भागातला असन् षेतकऱ्यांच्या परीस्थितीची जाणीव झाली.

कविता- 5.उदिष्ठ- कवी अनिलांच्या विराणीतून कवी मनाच्या उदासीनतेचे दर्षन घडविणे.

साध्य-कविला लाभलेल्या दुःखामुळे कविच्या मनाला उदासिनता प्राप्त झाली याची विद्यार्थ्यांना प्रचिती आली-Unit III:

प्रकरण – 1.उदिष्ठ–इतिवृत्त लेखन, प्रकार,पध्दती व लेखनाची काळजी याविषयी विद्यार्थ्यांना माहिती देणे.

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

प्रकरण – 2.उदिष्ठ–प्रसारमाध्यमे आणि वृत्तलेखन याविषयी विद्यार्थ्यांना माहितीचे विष्लेषण करणे.

साध्य–दुक श्राव्य प्रसारमाध्यमांच्याव्दारे बातमी, बातमीचे लेखनव 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 thetheory 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 Iरू उदि्ष्ठ—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:

उदि्ष्ठ—काव्यषास्त्र परिचय यातून काव्यकारण व षब्दषक्ती याविषयी विद्यार्थ्यांना माहिती देणे. **साध्य**—विद्यार्थ्यांना काव्य निर्मितीचे कारण व षब्दाच्या अभिदा, व्यंजना व लक्षणा या षब्दषक्तीची 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 ofit.

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.उदिष्ठ–आज्ञापत्राच्या आधारे राजकर्तव्ये पाठातून षिवछत्रपतींच्या कतबगाारीचा बोध विद्यार्थ्यांना करुन देणे. साध्य– राजकर्तव्ये पाठातील षिवाजींच्या कार्यकर्तृत्वाची विद्यार्थ्यानी जाणिव झाली व विद्याथ्यानी बोध घेतला. प्रकरण –2.उदिष्ठ–स्वराज्य व सुराज्य पाठातून लोकमान्य टिळकांच्या भारतीय स्वातंत्र्यासंबंधी योगदानाची विद्यार्थ्यांना माहिती करुन देणे.

साध्य– भारतीय स्वातंत्र्यात लोकमान्य टिळकांच्या व्यक्तिचित्रणातून निर्भयता, निःस्पृहता, ज्वलंत देषभक्ती या गुणांचा प्रत्यय विद्यार्थ्यांना आला.

प्रकरण – 3.उदिष्ठ– माध्यान्ह या पाठातील कुसुमावती देषपांडे यांचे माध्यान्हीच्या वेळेतील अनुभव विद्यार्थ्यांना सांगणे.

साध्य– माध्यान्हीच्या वेळेतील समतोलपणा, गंभीरता, अभिजात सौंदर्य व बानंद या गुणांची जाणीव विद्यार्थ्यांना झाली.

प्रकरण –4.उदिष्ठ–अव्दैताचा साक्षात्कार यातून साने गंरूजींच्या संदेषाची विद्यार्थ्यांमध्ये रुजवणूक करणे.

साध्य– साने गुरूजींच्या' अव्दैत भारतीय संस्कृतीचा आत्मा आहे, या तत्वाची विद्यार्थ्यांना जाणीव झाली. प्रकरण –5.उदिष्ठ– आधार या कथेतुन वि.स. जोग यांनी रेखाटलेल्या भाऊकाकांची षोकांतिका विद्यार्थ्यांना सांगणे.

साध्य–ओंकारी, अधम संस्कृतीत वावरणाऱ्या भाऊकाकांच्या षोकांतिकेचा विद्यार्थ्यांनी बोध घेतला-

Unit II:

कविता— 1.उदिष्ठ— अभंगवाणीतून संत चोखमेळाकालीन सामाजिक विशमता व अन्यायकारक वागणूकीची माहिती देणे. साध्य—तेराव्या षतकातील सामाजिक परिस्थिती रूढी परंपरांची माहिती चोखामेळाच्या अभंगातून विद्यार्थ्यांना समजून आली.

कविता –2.उदिष्ठ–क्रांतीचा जयजयकार कवितेतून भारताच्या स्वातंत्र्यासाठी क्रांतीकारकांनी दिलेल्या योगदानाची माहिती सांगणे.

साध्य—कुसुमाग्रजांनी व्यक्त केलेली क्रांतीकारकांच्या मनातील स्वातंत्र्यासंबंधी देषभक्तीची जाणीव विद्यार्थ्यांना झाली. कविता— 3.उदिष्ठ—सत्य या संकल्पनेचे स्वरुप सत्याच्या जातीला कवितेतून विद्यार्थ्यांना सांगणे.

साध्य–षरच्चंद्र मुकितबोध यांच्या कवितेतून संघर्शषील वृत्ती आणि विपरीत स्थितीतील उतुंग आषावाद याची माहिती विद्यार्थ्यांना मिळाली.

कविता– 4.उदिष्ठ– रातझडीचा पाऊस कवितेतून षेतातल्या निसर्गाषी कविच्या वृत्ती तादात्म्य पावण्याची साक्ष पटविणे. साध्य– प्रेमासक्त आणि निसर्गासक्त अषा दोन रुपांची सायुज्यता व पाऊसाची विद्यार्थ्यांना साक्ष पटली.

कविता– 5.उदिष्ठ–माझ्या कवितेची चव कवितेतून कविच्या काव्यनिर्मितीचे प्रयोजन विद्यार्थ्यांना सांगणे.

साध्य- इंद्रजित भालेराव यांनी व्यक्त केलेली काव्यविष्वाची भुमिका विविध षब्द प्रतिमांतून विद्यार्थ्यांनी समजून घेतला.

Unit III:

प्रकरण – 3.उदिष्ठ–पटकथा व संवादलेखन याबध्दलची माहिती विद्यार्थ्यांना देणे. साध्य– सिनेमात कथा,पटकथाव संवादलेखन कसे असते याची जाणीव विद्यार्थ्यांना झाली. प्रकरण – 4.उदिष्ठ– 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 thepolitical 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 FinancialMarket.

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. Shriniwas, D.P.Mukharjee)

Outcome - Student understood the concept of Social Change from Indian Perspective (M.N. Shriniwas, 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

Departmentof Marathi Marathi Literature Course Objectives and Course Outcomes

Unit I:

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–काव्यषास्त्र परिचय यातून काव्यकारण व षब्दषक्ती याविषयी विद्यार्थ्यांना माहिती देणे. साध्य– विद्यार्थ्यांना काव्य निर्मितीचे कारण व षब्दाच्या अभिदा, व्यंजना व लक्षणा या षब्दषक्तीची माहिती प्राप्त झाली.

B. A. III Semester-V

Department of Marathi Compulsory Marathi Course Objectives and Course Outcomes

Unit I:

लीळाचरित्र एकांक दृडॉ. मदन कुळकर्णी

उदिष्ठ– लीळाचरित्रांच्या एकांक ग्रंथाच्या आधारे तत्कालीन सामाजिक परिस्थितीचा आढावा घेणे.

साध्य–लीळाचरित्र एकांक ग्रंथातून लीळांच्या आधारे विद्यार्थ्यांना तत्कालीन सामाजिक, धार्मिक व राजकीय परिस्थिती तसेच एकून समाजजिवनाची ओळख विद्यार्थ्यांना झाली.

Unit II: दलित साहित्य वेदना व विद्रोह- भालचंद्र फडके

उदिष्ठ– 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

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

- UnderstoodThe 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 दृडॉ. मदन कुळकर्णी

उदिष्ठ– लीळाचरित्राच्या एकांक ग्रंथाच्या आधारे तत्कालीन सामाजिक परिस्थितीचा आढावा घेणे. साध्य–लीळाचरित्र एकांक ग्रंथातून लीळांच्या आधारे विद्यार्थ्यांना तत्कालीन सामाजिक, धार्मिक व राजकीय परिस्थिती तसेच एकून समाजजिवनाची ओळख विद्यार्थ्यांना झाली.

Unit IIरू दलित साहित्य वेदना व विद्रोह- भालचंद्र फडके

उदिष्ठ– दलित साहित्य वेदना व विद्रोह यातून दलित साहित्याच्या अभ्यासाचे महत्व साहित्यातील योगदान व महत्च विद्यार्थ्यांना पटवून देणे.

साध्य- दलित साहित्याचा उगम, चळवळ तसेच साहित्यिकांचे प्रेरणास्थान व कार्य याची जाणीव विद्यार्थ्यांना झाली.

- भाषाविज्ञानाचा परिचय. डॉ. मालसे, डॉ. कुळकर्णी
- उद्षिट– भाषाविज्ञानाचा परिचय विद्यार्थ्याना 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.उदिष्ठ–चक्र या कथेतून महाभारतातील द्रौपदी या स्त्रीचे चित्रण विद्यार्थ्यांना माहित करुन देणे. साध्य– महाभारतातील द्रौपदीच्या मनातील गूढ वगुंतागुंतीचे भावनीक प्रसंगाची माहिती विद्यार्थ्यांना प्रापत झाली. प्रकरण – 7.उदिष्ठ–पक्षीगान पाठातून पक्ष्यांच्या सौंदर्याचे दर्षन घडविणे.. साध्य–पक्षीगान मधून विविधक्षी, पक्ष्यांची घरटी, त्यांची पिल्ले यांची माहिती व ओळख विद्यार्थ्यांना झाली. प्रकरण – 8.उदिष्ठ–अन्वरषा फकीर या मुस्लीम व्यक्तीमत्वाची ओळख विद्यार्थ्यांना करून देणे.

साध्य–लहान मुले, स्त्रीया, माणसे व आजुँबाजूच्या गावातील जनतेसाठी उपयुक्त असे अन्वरषा फकीराचे व्यक्तिमत्व असल्याचे विद्यार्थ्यांना कळून आले. प्रकरण –9.उदिष्ठ– दाभोळकराच्या अंधश्रध्दा निर्मूलनाचे कार्याची माहिती विद्यार्थ्यांना करुन देणे. साध्य–वैज्ञानिक दृथ्ष्टकोण व षास्त्रीय विचार पध्दतीने अंधश्रध्दा निर्मूलन करण्याचे घ्येय दाभोळकरांचे होते याची माहिती विद्यार्थ्यांना झाली.

प्रकरण –10.उदिष्ठ–महिला ग्रामपंचायतीच्या निवडनुकीचे चित्रण विद्यार्थ्यांना सांगणे.

साध्य– ग्रामीण भागातील ग्रामपंचायत मधील निवडणूकीची माहिती व परिस्थितीची जाणीव विद्यार्थ्यांना आली.

Unit II:

कविता- 6.उदिष्ठ-ही निळी पांढरी कवितेतील षरद ऋतूतील दुपारचे वर्णन करुन देणे.

साध्य-इंदिरा संतानी केलेलीषरद ऋतूतील उन्हाची माहिती विद्यार्थ्यांना प्राप्त झाली.

कविता –7.उदि्ष्ठ–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.उदिष्ठ–पाऊस कवितेतून स्त्री मनाच्या विविध भावावस्था विद्यार्थ्यांना उलघडून दाखविणे .

साध्य-ग्रेस कवीने रेखाटलेले स्त्री वेदनेचे स्वरुप व स्त्री मनाच्या भावना याविषयीविद्यार्थ्यांना माहिती मिळाली.

कविता– 9.उदिष्ठ–प्रेम कवितेच्या आधारे कविने रेखाटलेले पीडितांचे चित्रन करुन जाणीव करून देणे.

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

कविता– 10.उदि्ष्ठ– 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.उदि्ष्ठ-ग्रंथपरीक्षण कसे करावे व ग्रंथवाचन करताना कोणते घटक बघावेत याची माहिती विद्यार्थ्यांना करणे.

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

प्रकरण – 4. उद्दिष्ठ–इंटरनेट आणि मराठी भाषा व साहित्य याची माहिती विद्यार्थ्यांना करुन 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.

VIC.

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

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Unit I:

गरूडझेप– भरत आंधळे

उद्षिष्ठ गरूड झेप 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 वाड्.मयाचा इतिहास– ल.रा. नषिराबादकर.

उदि्ष्ठ– प्राचीन मराठी वाड् मयाचा इतिहासाच्या आधार संतसाहित्य, पंडिती साहित्य,षाहिरी साहित्य, बखर वाड् मय या साहित्याची माहिती विद्यार्थ्यांना देणे

साध्य– संतसाहित्य, पंडिती साहित्य,षाहिरी साहित्य, बखर वाड्.मय या साहित्याची माहिती विद्यार्थ्यांना झाली. भाषाविज्ञानाचा परिचय. डॉ. मालसे, डॉ. कुळकर्णी

उदिष्ठ– भाषाविज्ञानाचा परिचय विद्यार्थ्यांना करून देंणे.

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 Startup 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

उदिष्टेः– 1. मराठी भाषेविषयी विदयार्थ्यांमध्ये अभिरुची निर्माण करणे.

2. साहित्यलेखनाची व वाचनाची आवड निर्माण करणे.

3. विदयार्थ्यांमध्ये असलेंल्या सुप्त कलांगुणांना वाव देऊन त्यांच्यात साहित्यविषयक वृध्दिंगत करणे.

4. साहित्यातून मानवतावादी दृष्टिकोण रुजविणे.

 साहित्यातून समाजातील प्रश्नांना वाचा फोडून त्यांचे निराकरण करणे.

ध्येयः— 1. भावी काळात विदयार्थ्यांमधून साहित्यनिर्मिती करणे.

 अध्यापन व अध्ययनात विदयार्थ्यांना सहभागी करुन संवादशील वातावरण निर्मिती करणे.

 विभागात विविध उपक्रमांचे आयोजन करुन मराठी भाषेचा दर्जा वाढविणे.

4. विदयार्थ्यांमध्ये संशोधनवृत्ती वृध्दिंगत करणे.

5. मराठी भाषेची प्रयोगशाळा निर्माण करणे.

By the end of this course, the students will be able to:

CO1 भारतीय लोकशाहीचे मूल्य विदयार्थ्यांमध्ये रुजविणे.

CO2 ग्रामीण जनजिवन व शेतीनिष्ठेशी विदयार्थ्यांची नाळ जोळणे.

CO3 संताच्या व्यावहारीक विचारांचा परिचय घडविणे.

CO4 शाहू महाराजाच्या आरक्षण विषयी विचारांचा परिचय घडविणे.

CO5 काव्यातील रसग्रहणक्षमता विकसीत करणे.

CO6 विदयार्थ्यामध्ये आधूनिक मूल्य रुजविणे

CO7 विदयार्थ्यामध्ये सामाजीक बांधिलकी निर्माण करणे.

CO8 विदयार्थ्यामध्ये 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 KeyManageriall 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 Ebanking.

Company Law

Course Objectives and Course Outcomes

Unit No. I - Background of New Company

- Objective To make the students understandthe 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 studentsunderstand 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 Startup 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 विदयार्थ्यांमध्ये रुजविणे.
- CO2 ग्रामीण जनजिवन व शेतीनिष्ठेशी विदयार्थ्यांची नाळ जोळणे.
- CO3 संताच्या व्यावहारीक विचारांचा परिचय घडविणे.
- CO4 शाहू महाराजाच्या आरक्षण विषयी विचारांचा परिचय घडविणे.
- CO5 काव्यातील रसग्रहणक्षमता विकसीत करणे.
- CO6 विदयार्थ्यामध्ये आधूनिक मूल्य रुजविणे
- CO7 विदयार्थ्यामध्ये सामाजीक बांधिलकी निर्माण करणे.
- CO8 विदयार्थ्यामध्ये 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 studentsunderstand 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.

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 Startup 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 वैशिष्ट्रे 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 con	cept of C	Communication	n, objective of
	Commur	nication	2 TI C	12	(A)	

- 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 studentsunderstand the Business Communication.
- Outcome- The students understood Business Communication.
- Unit No 3- Technology and Business Communication
- Objective To make the studentsunderstand 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 underst and 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.

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 वैशिष्ट्रे 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 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 studentsunderstand 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 studentsunderstand -Banking and Core Banking.

Outcome-Students developed their knowledge.

Unit III-

Banks and Customers Relationship and Service

Objective- To make the studentsunderstand 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 studentsunderstand 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- Studentsunderstood 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
11	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 studentsunderstand 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 studentsunderstand 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 studentsunderstand 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 Departmentof 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

उदिष्टे:- १. मराठी भाषेविषयी विदयार्थ्यांमध्ये अभिरूची निर्माण करणे.

- २. साहित्यलेखनाची व वाचनाची आवड निर्माण करणे.
- ३. विदयार्थ्यामध्ये असलेंल्या सुप्त कलांगुणांना वाव देऊन त्यांच्यात

साहित्यविषयक वृध्दिंगत करणे.

- ४. साहित्यातून मानवतावादी दृष्टिकोण रूजविणे.
- ९. साहित्यातून समाजातील प्रश्नांना वाचा फोडून त्यांचे निराकरण करणे.

ध्येयः - १. भावी काळात विदयार्थ्यामधून साहित्यनिर्मिती करणे.

२. अध्यापन व अध्ययनात विदयार्थ्यांना सहभागी करून संवादशील

वातावरण निर्मिती करणे.

३. विभागात विविध उपक्रमांचे आयोजन करून मराठी भाषेचा दर्जा

वाढविणे.

- ४. विदयार्थ्यामध्ये संशोधनवृत्ती वृध्दिंगत करणे.
- ५. मराठी भाषेची प्रयोगशाळा निर्माण करणे.

Course Outcomes

साहित्य सेतू

CO1 विदयार्थ्यांनमध्ये साहित्य विषयक आवड निर्माण करणे

CO2 वाचन संस्क्तीचा पुरस्कार करणे

CO3 भारतीय संविधानाचे महत्व समजावून सांगणे

CO4मानवी मुल्यांची जपणूक करणे

CO5 कविता लंखनाचे तंत्र अवगत करणे

- CO6 पर्यावरण विषयक जाग्ती निर्माण करणे
- CO7 व्यावहारीक 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	 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.
	ामसो म	 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	 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	 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	 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	• Understand gas equation and laws.
	• Understand qualitative discussion of
	the Maxwell-Boltzmann distribution.
	 Understand ideal gas and real gases behaviors.
102.3	• 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	• Understand the concept of different
	types of surface phenomenon and
	C Catalytic property, like Adsorption
1 42"	mechanism of adsorption, factor
	affecting adsorption. Difference
	between adsorption and absorption, etc.
	• Understand types of catalysis and
	enzymes.
F.Y. 103	Verify theoretical principles
Chemistry	experimentally
Practical	Interpret the experimental data
Course	• Improve analytical skills
	• Correlate the theory and experiments
	and understand their importance

Department of Physics

Programme Educationalobjectives (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

Paper	CO	Outcomes
Paper 1: Properties of Matter and Mechanics	101.1	• 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)	101.2	 Understand the concept of viscosity. Apply Poiseuille's Equation, Bernoulli's Theorem, Stoke's law and the concept of terminal velocity.
×	101.3	• 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	• Understand the System of particles and conservation laws.
Paper 2: Electrostatics, Time varying	102.1	• Understand the concept of Electrostatic force, Electric field, Electric potential, Electric dipole, Electric dipole moment.
fields & Electric Currents (102)	102.2	 Understand the concept of polarization and capacitors with and without dielectric. Apply Gauss law to parallel plate capacitor.
	102.3	 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	 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	• Apply and demonstrate the theoretical concepts of Physics

(103)	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	СО	Outcomes
FY	101.1	Understand the basic concept related to Matrices and
Paper-I		solve the problem based on a system of Linear
Algebra and		equations
Trigonometry	101.2	Understand the general properties of equations and
101		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	102.1	Using Definition, verify the values of limit and
Paper-II		continuity and solve the problem on Differentiation
102	102.2	Understand the concept of Maclaurins and Taylor's
Calculus		theorem
		Indentify 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.
PRO	GRAMME OUTCOMES (PO)

PROGRAMME OUTCOMES (PO)

1	1.	The students are expected to understand the fundamentals, principles, and			
	1.1	recent developments in the subject area.			
	2.	It is expected to inspire and boost interest of the students towards zoology as			
		the main subject.			
V	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			
	$\lambda \geq$	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	101.1	To understand general characters and classification up to		
Paper-I		classes of protozoa, structure and reproduction of		
Life and		Paramoecium, structure and life cycle of Plasmodium,		
Diversity of		parasitic Protozoans of Man (Entamoeba, Trypanosoma,		
Animals –		Giardia and Leishmania). Mode of infection and its control.		
Non-	101.2	To understand the general characters and classification up to		
chordates	101.2	classes of porifera, Structure, reproduction and development,		
(Protozoa to		Canal system in sponges, General characters and		
Annelida)		classification up to classes of Coelenterata, structure and life		
(101)		cycle of Obelia, Polymorphism in hydrozoa.		
	101.3	To Understand the Helminthes: General characters and		
	101.5	classification up to classes, <i>Ascaris</i> : External morphology,		
		reproductive system and life cycle, <i>Taenia solium</i> : Structure		
	\mathbf{A}	and life cycle, Elementary idea of parasitic adaptations in		
		helminthes		
	101.4	To Understand the Annelida : General characters and		
	101.4	classification up to classes, Leech : Morphology, digestive		
		and urinogenital system, Trochophore larva and its		
		significance, Vermiculture and its importance		
FY	102.1	To understand the Atmosphere: Major zones and its		
Paper-II	102.1	importance, composition of air, Hydrosphere: Global		
Environmental		distribution of water, Physico-chemical characteristics of		
Biology		water, Lithosphere: Types of rocks, formation of soil,		
(102)		Renewable and non- renewable energy sources		
(102)	102.2	Understand the Ecosystem - Definition and types, Detailed		
	102.2	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		
	102.5	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		
	102.4	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.	103	Verify theoretical principles experimentally		
Zoology	105			
Practical		• Interpret the experimental data		
Course		Improve analytical skills		
Course		• 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 Diversityand its importance in the maintenance of ecological balance.

PO2. Students learn to carry out practical work, in the field and in the laboratory, interpreting plantmorphologyandanatomy,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 anunderstanding of the applications in human life.

PO5. Apply theknowledge gained from the studies for the upliftment of society via addressinghealth, environmental issues, food scarcityetc.

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 atphylogenetic level.

PSO2.Students will be able to access the primary literature, identify relevant works for aparticular 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 functionat 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 vegetativemethods and to find alivelihood via establishing miniature plant nurseries

Course Name: B.	Sc.			
Year/Semester: F	irst/First			
Subject: Botany				
After the successful completion of the course students will be able to-				
Paper CO Outcomes				
FY 101.1 • To understand the nature of viruses				
Paper-I Ultra-structure and economic				

Paper-I		Ultra-structure and economic
Viruses,		importance.
Prokaryotes,Alg ae		• Understand the properties of
And		Mycoplasma and its reproduction.
Biofertilizers		• Understand general characteristics and
(101)		reproduction in bacteria.
(===)	101.2	• To understand general characteristics and
		classification of algae
		• To understand the to understand general
	1	structure of Cyanobacteria and its
	6	reproduction.
	101.3	• Understand life cycle of Chara,
~//	A	Vaucheria ,Ectocarpus, and
		Batrachospermum.
	101.4	• To understand Scope and importance of
		Biofertilizers.
10	6	• Understand the microbes used in biofertilizers.
FY	102.1	
F Y Paper-II	102.1	Understand the Characteristics of fungi.
Fungi, Plant		• Understand the reproduction and life
Pathology,Liche		cycle of Albugo, Mucor, Puccinia and
ns, Bryophyta	102.2	Cercospora.
and Mushroom	102.2	Pathogen study, control and causes of
Cultivation (102)		diseases : leaf curl of papaya, Citrus
	102.3	canker and red rot of sugarcane
	102.5	• Understand classification and general characteristics of Bryophyta.
X		• Life history of Marchantia, Anthoceros and Funaria
		and Fundria
	X	• To Study the nutritional and medicinal
		values of edible and non-edible
		mushrooms. Technology of mushroom
		cultivation
F.Y.	103	Study the fungal genera.
Chemistry		 Study the lichens, thallus structure and
Practical Course		types of lichens.
		 Plant pathological study.
		 Study of bryophytes and identification of
		its characteristics.
		 Preparation of mushroom beds.
		- reparation of musiliooni ocus.

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

उदिष्टेः- 1. मराठी भाषेविषयी विदयार्थ्यांमध्ये अभिरुची निर्माण करणे.

- 2. साहित्यलेखनाची व वाचनाची आवड निर्माण करणे.
- विदयार्थ्यांमध्ये असलेंल्या सुप्त कलांगुणांना वाव देऊन त्यांच्यात साहित्यविषयक वृध्दिंगत करणे.
- 4. साहित्यातून मानवतावादी दृष्टिकोण रुजविणे.
- 5. साहित्यातून समाजातील प्रश्नांना वाचा फोडून त्यांचे निराकरण करणे.

Course Outcomes

साहित्य सेतू

ध्येयः– १.

- 1. भावी काळात विदयार्थ्यांमधून साहित्यनिर्मिती करणे.

 अध्यापन व अध्ययनात विदयार्थ्यांना सहभागी करुन संवादशील वातावरण निर्मिती करणे.

 विभागात विविध उपक्रमांचे आयोजन करुन मराठी भाषेचा दर्जा वाढविणे.

4. विदयार्थ्यांमध्ये संशोधनवृत्ती वृध्दिंगत 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	СО	Outcomes
FY Paper -I Organic Chemistry (201)	201.1	 To make students understand different organic compounds and the concept structure and bonding in organic compounds. Understand the mechanism of organic reaction.
	201.2	 Understand the concept of stereochemistry of organic compounds. To make the structure of Geometrical isomerism and conformational isomerism.
*	201.3	• 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	 Basic of the alkane and alkynes with respect to their chemical point of view. To understand the aromaticity of organic compounds.
Pape-IIreactions.PhysicalUnderstand free		 To understand the thermodynamics of chemical reactions. Understand free energy functions like work function, Gibb's free energy etc.
×	202.2	• To understand the concept of phase equilibria. Statement of phase rule and term. Application of phase rule
	202.3	• Understand the concept of nuclear chemistry and molecular structure
	202.4	• To Understand the concept of chemical kinetics and theories of chemical kinetics.
F.Y. Chemistry Practical course	203	 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:	201.1	• To understand the concept of linear and angular
Oscillations,		S.H.M., Damped harmonic oscillator
Kinetic theory of gases and	201.2	• To understand the concept of Forced oscillation with one degree of freedom and kinetic theory of gasses.
Thermodynamics	201.3	• To understand the Transport phenomenon in gases,
(201)		Zeroth and First law of thermodynamics and Cornot's
		Theorem
	201.4	• To understand second and third law of thermodynamics
		and Maxwell's general relationship and its applications
Paper 2:	• To understand Newton's laws of gravitation and the	
Astrophysics, Magnetism and Magnetostatics202.2• Know the constituents of universe (Solar Galaxies) and some physical aspects of un understand the concepts of the202.3• To understand the concepts of the		concept of Gravitational self-energy of the galaxy
		• Know the constituents of universe (Solar system, Stars,
		Galaxies) and some physical aspects of universe
		• To understand the concepts of Dimagnetism,
(202)	25	Paramagnetism and Ferromagnetism and their
		- applications
	202.4	• To understand the Concept of magnetic field and to
		study various laws of magneto static and their applications.
Physics Practical	203	• Apply and demonstrate the theoretical concepts of
(203)		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	201.1	Understand the concept of Solid Geometry		
Paper-I	202.2	Identify and solve the problems on Differential equations		
201		of first order		
Geometry,	203.3	Understand the Higher order linear differential equations		
Differential and		with constant coefficient		
Difference	Difference 204.4 Understand the basic concept of Difference			
Equations				
FY	202.1	Students learn the concept of Vector differentiation and		
Paper-II Line Integral		Line Integral		
202	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-

_	ion of the course students will be able to-		
	Outcomes		
201.1	To understand the, Arthropoda : General characters and		
Paper -I classification up to classes, Cockroach : Mo			
Life and Diversity of Animals – digestive system and reproductive system, In Vectors : Mosquito, Housefly, Sandfly, Tse-			
	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, Pila : 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, Asterias : External		
2	features and digestive system, Water vascular system		
0	and locomotion in Starfish, Echinoderm larvae :		
	Bipinnaria and Auricularia		
201.4	To understand Hemichordata : General characters and		
	phylogeny, Balanoglossus : External features and		
	digestive system, Reproduction in Balanoglossus,		
	Tornaria larva, Affinities of Balanoglossus		
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:		
(202) Types, ultrastructure and functions			
202.2 To understand Ultrastructure of			
Oxidative phosphorylation – G			
	cycle, Electron Transport Chain and terminal oxidation,		
Lysosome: Structure, polymo			
202.3	To understand the Nucleus: Ultrastructure of nuclear		
202.5	membrane, Structure and functions of nucleolus,		
Chromosome: Structure and types, struct			
	nucleosome, Giant chromosomes: Lamp-brush and		
X	polytene chromosome		
202.4			
202.4	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		
202	causative agents		
203	• Verify theoretical principles experimentally		
	• Interpret the experimental data		
	 Improve analytical skills 		
	• Correlate the theory and experiments and		
	understand their importance		
	r		
	CO 201.1 201.2 201.3 201.3 201.4 202.1		

Department of Botany Course Outcomes (COs)

Course Name: B. Sc. Year/Semester: First/Second Subject: Botany

Paper	CO	Outcomes
FY	201.1	• To make students understand fossils,
Paper -I	-	Pseudofossils, and its importance.
Paleobotany, Pteridophytes,		 Knowledge about types of fossils.
Gymnosperms and Soil		 Details of Geological time scale.
Analysis (201)		 Differentiation among the types of fossil.
		 Study the general characteristics of
	201.2	
	201.2	Pteridophytes and its classification.
	C	• Life history of <i>Selaginaella</i> . And
	201.2	Equisetum.
	201.3	 Classify the Gymnosperms, its
	· · ·	characteristics and economic importance.
	de.	 Understand the fossil gymnosperm.
		• Study the life cycle of <i>Cycas</i> and <i>Pinus</i>
TI BE	201.4	• Skill development and soil analysis.
X K		• Identification of types of soil on the basis
	14	of its color and texure.
A	(C-20)	• Study the physical properties of soil.
		• Understand the pH of soil and nitrogen
	0	availability in it.
F.Y.	202.1	• Study the morphological characteristics of
Pape-II		plants.
Morphology of	ТП	• Identification of morphological characters
Angiosperms and	1.1.1	of plants.
Floriculture		• Study the modification occure in root,
(202)	2	stem and leaf.
	202.2	Study the reproductive morphology.
	UT.	 Study the types of inflorescence.
		Study the types of inforescence.Study the calyx, corolla and Androecium.
	202.3	
	202.3	 Understand the structure of gynoecium. Study the finit and its types
	202.4	• Study the fruit and its types.
	202.4	• Develop the skills of floriculture and
	V	cultivation Mathed of sultivation
EX	202	Method of cultivation.
F.Y. Botany	203	• Study of different root and stem modification and branching patterns
Practical course		modification and branching patterns.
		• Study the types of leaf and its phyllotaxy, venation and modification.
		 Understand the flower structure and
		• Onderstand the Hower structure and position of calyx, corolla, androecim and
		gynoecium.
	1	gynoclum.

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	301.1	• Understand the concept of molecular orbital
Paper-I Inorganic		theory and VSEPR theory.
Chemistry	301.2	• Understand the properties of d and f block
(301)		elements.
×	301.3	 Understand the role of nonaqueous solvents. Understand concept of errors and evaluation in chemical analysis.
*//	301.4	• Understand the concept of chemistry of Lanthanides and Actinides series.
S.Y. Paper-II Organic	302.1	• Understand the structure and chemical bonding in aryl, alkyl halides, and aldehydes.
Chemistry (302)	302.2	• Understand the structure and chemical bonding in alcohols and phenols.
	302.3	• Understand the nomenclature, structure of the carbonyl group, synthesis of aldehydes and ketones
+	302.4	• Understand chemical reaction of carboxylic acids and its derivatives.
S.Y. Chemistry Practical Course	303	 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

Paper	CO	Outcomes
Paper 1: Sound	301.1	• Understand the concept of group and phase velocities,
Waves, Applied		formation of standing waves and diagrammatic
Acoustic,		introduction of human ear and its responses.
Ultrasonic and	301.2	• Understand the working of transducers and their
Power Supply		characteristics and the concept of acoustic and its

(201)		applications
(301)		applications.
	301.3	• Understand the production and applications of ultrasonic
		waves.
	301.4	• Understand the concept of voltage regulation and
		working of the half, full and bridge rectifier.
Paper 2: Physical	302.1	• Understand the concept of interference of light through
Optics and		thin film
Electromagnetic		• Apply the concept of interference of light through thin
Waves		film in wavelength determination.
(302)	302.2	• Understand the concept of diffraction, Resolving Power
		of grating and Rayleigh's criterion for resolution.
	302.3	• Understand the concept of polarization and double
		refraction
	302.4	• Understand the origin and characteristics of EM waves,
		Physical significance of Maxwell's equations,
		Characteristics impedance of dielectric and Poynting
T		theorem.
Physics Practical	303	• Apply and demonstrate the theoretical concepts of
(303)	5	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	301.1	Students understand Mean Value theorem
Paper-I	301.2	Learn about an envelope of a family of curves in the
301	1.1.1.2	plane and study the Langranges Multiplier method
Advanced	301.3	Understand the concept of sequence
Calculus,	301.4	Use Tests for convergence
Sequences &		
Series		
SY	302.1	Understand the concept of Special Functions(Bessels and
Paper-II		Legendre's function)
302	302.2	Students understand the concept of Laplace Transform
Differential		and solve the problems
Equation and	302.3	Applications of Laplace Transform & Fourier Transform
Group	302.4	Students develop knowledge in group theory
Homomorphism		

Department of Zoology Course Outcomes (COs)

Course Name: B. Sc. Year/Semester: Second/Third

Subject: Zoology

Paper	CO	Outcomes
S.Y	301.1	Understand the Protochordata : General characters and classification

Paper-I		up to order, Herdmania : Structure, digestive system, ascidian
Life and		tadpole and retrogressive metamorphosis, <i>Amphioxus</i> : Structure,
Diversity of		digestive system, circulatory system, sense organs and
Animals -		protonephridia, Agnatha : General characters of Cyclostomata
Chordates		(Petromyzon and Myxine)
(Protochordata	301.2	Understand the Pisces : Salient features of Chondrichthyes and
to Amphibia)		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.	302.1	Understand the Mendelian Principles- Dominant recessive
Paper-II		relationships, Mendelian laws, Interaction of genes- Epistasis -
Organic		dominant and recessive, codominance, incomplete dominance,
Zoology		Quantitative genetics – Polygenic traits, inbreeding and
(302)		outbreeding, hybrid vigor, Extracellular genome – Presence and
	Z	functions of mitochondrial DNA, plasmids
	302.2	Understand the concept of Cytoplasmic inheritance- Kappa particles
	0	in Paramecium, CO2 sensitivity in Drosophila, milk factor in mice,
	5	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 Drosiphila – Genic balance theory,
	H D	Environmental sex determination in Bonellia, 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,
C V	202	karyotyping
S.Y.	303	• Verify theoretical principles experimentally
Zoology Practical		Interpret the experimental data
Course		Improve analytical skills
Course		• 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	• Understand the study of angiosperms, Fossil
Paper-I		angiosperms, Angiosperms taxonomy.
		• Understand the nomenclature.
		• Study the trends in taxonomy.
Botany		
(301)	301.2	• Understand the classification system of Benthem
		and Hooker, Engler and Prantle.
	301.3	• Study the types of pollinaton 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	• Study the skills of landscaping and gardening.
S.Y.	302.1	• Understand anatomical features of plants and its
Paper-II	R	organs.
Angiosperm		• Study the tissue its types and functions.
anatomy and	302.2	• Study the primary and secondary growth I stem and
Horticulture	5	root.
(302)	302.3	• Study the periderm growth rings, sap heartwood,
		leaf anatomy.
		Study the Senescence and Abscission.
	302.4	• Study the techniques of horticulture, methods of
	HD	propagation.
	202	Learn the technique of bonsai preparation.
S.Y.	303	• Study the simplest and complex tissue from
Botany Practical		permanent micro-preparation.
Course		• Identification of types of vascular bundle.
Course		 Anatomy of Dicot and Monocot stem with terraneously or double stained
		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

Paper	CO	Outcomes
S.Y. Paper-I	401.1	• Understand the properties of coordination compounds. Chelates: classification and their

Inorganic		application and valance bond theory of complexes.
Chemistry (401)	401.2	• Understand the concept of isomerism in coordination compounds. Concept of oxidation and reduction and balancing of redox reaction.
	401.3	 Understand the concept of colorimetry and spectrophotometry. Understand the concept of separation technique like chromatography ion exchange and solvent extraction.
	401.4	• Understand the concept of inorganic polymers.
S.Y. Paper-II Physical Chemistry	402.1	 Understand solid state and their classification and their laws. To understand the concept of determination of crystal structure.
(402)	402.2	 Understand electrochemistry of reversible and irreversible cells. Understand the concept of electrical transport and transport number.
*//	402.3	Use spectroscopy for chemical analysis.Understand types of spectroscopy.
	402.4	• Understand the concept of quantum chemistry and wave function.
S.Y. Chemistry practical Course	403 तम	 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

Paper	CO	Outcomes
Paper 1: Solid State Physics, X-ray and Laser	401.1	• 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)	401.2	 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	 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	• Understand the concepts of LASER emission.
		• Understand the construction and working of various types of LASER.
Paper 2: Solid State	402.1	• Understand the construction and working and characteristics of various solid state devices.
Electronics, and Molecular	402.2	• Understand the construction and working and characteristics of various FETs.
Physics	402.3	• Understand the concept molecular physics.
(402)	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 G	401.1	Understand the concept of ordinary Differential Equations
Paper-I		in more than two variables
401	401.2	Use the methods to solve the linear and nonlinear partial
Partial		differential equations of first order
Differential	401.3	Understand the concept of Higher Partial Differential
Equations &	H D	Equations Selection
Calculus of	401.4	Find the distance between the curves and understand the
Variation		concept of Eulers differential equation
SY	402.1	Students learn about Coplanar Forces, Virtual Work and
Paper-II		Catenary
402	402.2	Understand the velocity, Acceleration and simple
Mechanics		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

Paper	CO	Outcomes
S.Y.	401.1	Understand the Reptilia- Classification based on temporal

D	1	
Paper-I		vacuities, Poison apparatus, biting mechanism, snake
Life and Diversity		venom and its importance, Aves – Comparison of Ratitae
of Animals –		and Caranitae, Flight adaptations and migration, Mammals
Chordates	401.0	– General characters of Prototheria, Metatheria and Eutheria
(Reptilia, Aves and	401.2	Understand the Modern theories of evolution : Darwinism
Mammals)		and Neo-Darwinism, Adaptations – Cursorial, Aquatic,
(401)		Terrestrial, Fossorial and Volant, Introduction to genetic
		basis of evolution – Species Deme, Variation, Races in Man
	101.0	(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 premitive 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,
~ ~ ~	46.0.1	Development of Aortic arches of frog
S.Y.	402.1	Understand the DNA: Structure of DNA, forms of DNA,
Paper-II	× *	properties of DNA, DNA as a genetic material, RNA:
Molecular Biology	2	Structure of RNA, types of RNA, RNA as a genetic
and		material, Prokaryotic and eukaryotic gene structure,
Immunology(402)		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,
	44	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.	403	• Verify theoretical principles experimentally
Zoology practical		• Interpret the experimental data
Course		• Improve analytical skills
course		
course		• Correlate the theory and experiments and understand

		their importance
		Department of Botany Course Outcomes (COs)
Course Name: B. So Year/Semester: Sec		urth
Subject: Botany		
	_	etion of the course students will be able to-
Paper	CO	Outcomes
S.Y.	401.1	• Understand the brief account of cell theory.
Paper-I		Comparison between eukaryotic and prokaryotic
Cell biology, Plant		cell.
Breeding,		• Structure and function of cell wall, Endoplasmic
Evolution, and		reticulum, Golgi complex, plasma membrane,
Technology (401)		Ribosome and Vacuole.
	401.2	• Understand the structure and functions of
	3	chloroplast, Mitochondria and Nucleus.
	5	• Understand the chromosome morphology,
		Molecular organization of chromosomes.
	50	• Understand the sex chromosomes and cell
XII S	401.2	division process.
	401.3	• Understand plant breeding, methods of plant
		breeding.
		• Understand the biostatistics and determine the
		Mean, Mode, Median.Understand the evolution process.
	401.4	 Understand the evolution process. Understand the seed development technology
	401.4	which is used to increase a commercial value of
	111	seeds.
S.Y.	402.1	• Understand the principle of Mendelism.
Paper-II		 Understand the linkage and crossing over process.
	402.2	• Understand the Mutation , chromosomal
(402)		aberrations and variation in chromosome number.
		• Understand the DNA damage and repair process.
	402.3	• 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	• Study the skill development.
		• Develop the skills related with plant nursery.
		• Understand the nursery manaegment techniques
S.Y.	403	• Study the Mendel's law of segregation with help
Botany		of color beads.
practical Course		• 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-

CO	Outcome
501.1	• Understand the concept of organic compounds of nitrogen and amines.
501.2	• Understand heterocyclic compounds and their structure.
501.3	 Understand quantitative analysis: Estimation of carbon, hydrogen and nitrogen etc. Understand reaction and structure of organometallic compounds.
501.4	 To study Spectroscopy. To understand Electromagnetic and Infrared absorption spectroscopy
502.1	 Understand electrochemistry and various types of cells. Understand types of reversible electrodes.
502.2	• Understand quantum chemistry and molecular orbital theory.
502.3	 Understand the concept of Photochemistry. To study Raman Spectroscopy
502.4	• To understand colligative properties and macromolecules.
503	 Verify theoretical principles experimentally Interpret the experimental data Improve analytical skills Correlate the theory and experiments and understand their importance
	501.1 501.2 501.3 501.4 502.1 502.2 502.3 502.4

Department of Physics Course Outcomes (COs)

Course Name: B. Sc. Year/Semester: Third/Fifth Subject: Physics

CO	Outcomes
501.1	• Understand Vector atom Model, the concept of space
	quantization, Zeeman Effect and L-S and J-J
	coupling.
501.2	• Apply free electron theory and band theory of solid
	501.1

Physics (501)		to classify solids as conductor, semiconductor and insulator.
	501.3	• Understand and apply Maxwell-Boltzmann statistics
	501.4	• Understand and apply Bose-Einstein statistics and Fermi-Dirac statistics.
Paper 2: Quantum Mechanics, Nanomaterials and	502.1	• Understand the basics of quantum mechanics and apply it to explain the phenomena like black body radiation and Compton Effect.
Nanotechnology (502)	502.2	• Understand and apply Schrodinger's equation to free particle in a one and three dimension.
	502.3	• Understand the basics of nanotechnology.
	502.4	• Understand the synthesis and characterization techniques of nano materials.
Physics Practical (503)	503	• 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	501.1	Understand the concept of Fourier series
Paper-I	501.2	Understand the concept of Riemann-Stieltjes integral
501	501.3	Understand the concept of Analytics Functions
Analysis	501.4	Students learn about Mobius Transformation
TY	502.1	Students deal with the definition, properties and
Paper-II		examples of countable and uncountable sets and
502		understand the metric space
Metric spaces,	502.2	Understand the concept of Completeness, Compactness
Complex		and Connectedness
integration &	502.3	Understand the concept of Ring
Algebra		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

Paper	СО	Outcomes
T.Y.	501.1	Understand the Enzymes – Distribution and chemical nature of

	r	1
Paper-I		enzymes, General properties of enzymes, Classification of enzymes,
General		Factors affecting enzyme activity
Mammalian	501.2	Understand the Structure and functions of digestive glands -
Physiology –		(Salivary, Gastric, Intestinal, Liver and Pancreas), Gastrointestinal
Ι		hormones, Digestion and absorption of proteins, carbohydrates and
(501)		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 O2 and CO2,
		Respiratory disorders and effects of smoking
	501.4	Understand the Composition and functions of blood, Blood clotting
		– Intrinsic and extrinsic factors, blood groups and <i>Rh</i> factor, Cardiac
		cycle, E.C.G. and Blood pressure
T.Y.	502.1	Understand Site selection and construction, Pre stocking and post
Paper-II		stocking manangement of nursery, rearing and stocking ponds,
Physical		Breeding of fishes by bund and Chinese hatcheries. Induced
Zoology 🦳		breeding by hypophysetion. New generation drugs in induced
(502)	/ /	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
	R	fishes – Live bearers and egg layers, Diseases caused by fungi,
		bacteria, protozoa and helminthes
	502.3	Understand the concept Chemical control : Insecticides -
	T	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 -Earias vitella ,Stored grain
		pest- Rice Weevil, Sitophilus oryzae, Animal pest: Life cycle,
		damage and control of – House fly – Musca nebulo, Stable fly –
		Stomoxys calcitrans
	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), Antheraea mylitta; Brief idea of
	//	coccon processing for silk fabric - coccon 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> –
T.Y.	503	Life cycle, Lac processing, Lac products and Economic Importance
	505	• Verify theoretical principles experimentally
Zoology Practical		Interpret the experimental data
Course		• Improve analytical skills
Course		• 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.	501.1	• Understand water relation and its significance.
Paper-I		• Understand the Osmosis, Diffusion, Osmotic Pressure.
Plant		• Understand the ascent of sap.
physiology,		• Understand the transpiration, phloem transport and
Mineral		mineral uptake.
Nutrition	501.2	• Understand the photosynthesis process, photosynthetic
and		pigments.
Hydrophoni		• Understand the light and dark reaction of
cs (501)		photosynthesis.
		• Understand the respiration and its mechanism.
		• Understand the fermentation process.
	501.3	• Understand the nitrogen fixation by symbiotic and
	-	Non-Symbiotic mechanism.
	D	• Study the pant movements and photoperiodism.
		• Study the circadian rhythms and Biological Clock.
	501.4	• Understand the mineral nutrition, source and types.
		• Study the role and deficiency symptoms
	5	Macronutrients and Micronutrients.
		• Study the hydroponics, advantages and disadvantages
		of hydroponics.
T.Y.	502.1	Understand the concept of Ecology.
Paper-II		• Study the climatic, Edaphic and Physiographic factors.
Plant	502.2	• Study the ecosystem, components of Ecosystem.
Ecology and	0	• Understand the food chain, food web and ecological
Organic Farming		pyramids.
(502)		Study the Autecology and Synecology.
(302)	502.3	• Understand the process of succession.
		• Study the plant adaptations.
		Study the Biogeochemical cycles.
	502.4	• 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.	503	• Determining the Frequency, Density, and Abundance
Botany		of community by Quadrate Method.
Practical		• Determining the homogeneity of vegetation by
Course		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

Paper	CO	Outcomes
T.Y. Paper-I Inorganic Chemistry	601.1	 Understand Metal ligand bonding in Transition Metal complexes. Electronic spectra of Transition Metal Complexes.
(601)	601.2	 Understand Magnetic Properties of Transition metal Complexes. To study thermodynamic and kinetic aspect of metal complexes.
*/	601.3	 Understandorganometallic chemistry. Understand properties and structure of metal carbonyls.
\star	601.4	 To study Bio-organic chemistry Understand the concept of s Hard and Soft acids and bases.
T.Y. Paper-II	602.1	Understand NMR Spectroscopy
Organic Chemistry (602)	602.2	 Understand Organic Synthesis via Enolates. Carbohydrates: classification, reaction and mechanisms.
* \\	602.3	• Understand Amino acids, peptides and nucleic acids. To study Fats, oil and detergents.
	602.4	• Understand synthetic dyes, synthetic drugs, synthetic polymer.
T.Y. Chemistry Practical Course	603	 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	СО	Outcomes
Paper 1:	601.1	• Understand the postulates of the special theory of
Relativity,		relativity.
Nuclear Physics		• Apply the concept of relativity to explain Length
and Bio Physics		contraction, Time dilation, Velocity addition theorem,
(601)		Variation of mass with velocity, Mass energy
		equivalence.
	601.2	• Understand the concept of nuclear physics.
	601.3	• Apply the concept of nuclear physics to explain various
		decay processes.
	601.4	• Understand the Principle, Construction and working of
		different bio instruments.
Paper 2:	602.1	• Understand the operations and applications of
Electronics, Fiber	5	operational amplifiers.
Optics,	602.2	• Understand the various basic structures of optical fibers
Communication	25	and basic concept involved in propagation of light
and Digital		waves through optical fiber.
Electronics (602)	602.3	• Understand the concept of amplitude modulation and
L I A		frequency modulation.
	602.4	• Understand various number systems.
		• Construct the truth tables for various logic gates.
		Verify De Morgan's theorem
Physics Practical	603	• Apply and demonstrate the theoretical concepts of
(603)		Physics and to develop scientific attitude.
	177	

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	601.1	Understand the concept of Group Automorphism
Paper-I	601.2	Understand definition and examples of vector spaces
601	601.3	Learn about algebra of linear transformation
Abstract	601.4	Find range, rank, kernel and nullity of matrix and also
Algebra		study about Inner product spaces
TY	602.1	Study the Newtonian Mechanics and understand the
Paper-II		concept special theory of relativity
602	602.2	Learn the Lorentz transformation and consequences
Special Theory	602.3	Understand the concept of Tensors and Space -Time
of Relativity		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		
	601.1	Understand the Types of neurons, E.M. structure of neuron,		
Paper-I		Conduction of nerve impulse, Ultrastructure of striated		
General		muscle, Sliding filament theory of muscle contraction,		
Mammalian		Properties of muscles (Twitch, Tetanus, Tonus, Summation,		
Physiology - II		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,		
	5	Structure and functions of thyroid and parathyroid gland,		
		Structure and functions of adrenal gland, Structure and		
	NC	functions of pineal gland		
	601.4	Understand the Oestrous and menstrual cycle, Male and		
	0-	female sex hormones, Causes of infertility in male and		
		female, Contraceptives - Mechanical and hormonal; In-vitro		
		fertilization		
T.Y.	602.1	Understand the Concepts of sterilization: Filtration,		
Paper-II		autoclaving, dry heat sterilization, wet sterilization and		
Applied		radiation, Separation of biomolecules: Centrifugation		
Zoology –II		(Sedimentation, density gradient); Chromatography (
(Biotechniques,	141	Elementary idea of thin layer, gel filtration and ion exchange		
Microtechnique,		- Principles and applications), Electrophoresis: Agarose gel		
Biotechnology,		electrophoresis, SDS-PAGE, Principles of colorimeter and		
Bioinformatics		spectrophotometers		
and	602.2	Understand the concept of Fixation, dehydration, clearing,		
Biostatistics)		embedding & section cutting, Difficulties encountered during		
(602)		section cutting (causes and remedies), Double staining with		
		Haematoxylin and Eosin, Histochemical staining techniques		
	1	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	 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

Paper	СО	Outcomes
Biochemistry,	601.1	• Study the lipids, role of fatty acids, oils
biotechnology	C	and waxes.
And herbal technology		• Study the enzymes its classification and
Paper-I		nomenclature.
(601)		• Study the basic concepts of Enzymology.
	in the day water	• Study the enzyme inhibitors.
	601.2	• Study the tissue culture techniques.
		• Study the process of sterilization.
N (Gt	C	• Study the preparation of culture media.
	601.3	Understand the techniques of genetic
		engineering.
		• Study the process of DNA library.
		• Study the types of DNA library.
Т// ПНМ	14	Study the Agrobacteria mediated gene
		transfer.
	601.4	• Develop the skills of herbal technology.
	A	• Study the methods of Cultivation,
	FU Y	Harvesting,
	-/-	• Understand the technique of dye yielding
		of herbal plants.
		• Study the used of herbs in cosmetics.
T.Y.	602.1	• Study the phytogeography, climatic
Paper-II		regions of India.
Phytogeography,Utilization		• Study the Environmental pollution.
of Plants, Techniques and Pharmacognosy (602)		• Study the Renewable and Non Renewable
That macognosy (002)		sources.
	(02.2	• Understand the conservation strategies.
	602.2	• Study the morphology, utilization and
		important chemicals constituents of the
		plants.
	602.3	Understand the concept of Ethnobotany. Study the principle types and employed in the second exploration.
	002.3	• Study the principle, types and application of microscope
		of microscope.
	602.4	• Study the various techniques.
	602.4	• Understand synthetic dyes, synthetic drugs,

		synthetic polymer.Study the pharmacological plants
T.Y. Botany Practical Course	603	 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.

