Program Outcomes

Course Outcomes

Academic session-2021-2022

Faculty of B. A, B. Com, B. Sc & B. Voc.

Bhiwapur Mahavidyalaya, Bhiwapur
Course Outcome and Program Outcome
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Department of Arts

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Department of Commerce

Session	Course	Semester	Sr. No.	Subject	Page No.
2020-2021	B. Com	First	1	English	
			2	Marathi	
			3	Financial Accounting- I	
			4	Business organization	
			5	Company law	
			6	Business Economics- I	
		Second	7	English	
			8	Marathi	
			9	Statistics and Business mathematics	
			10	Business Management	
			11	Secretarial Practice	
			12	Business Economics II	
		Third	13	English	
			14	Marathi	
			15	Financial Accounting II	
			16	Business communication and management	
			17	Business law	
			18	Monetary economics-I	
		Fourth	19	English	
			20	Marathi	
			21	Financial Accounting-III	
			22	Skill Development	
			23	Income Tax	
			24	Monetary Economics-II	
		Fifth	25	Financial Accounting-IV	

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

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

Session	Course	Semester	Sr. No.	Subject	Page No.
2020-2021	B.Sc.	First	1	English	
			2	Marathi	
			3	Chemistry I & II	
			4	Physics I & II	
			5	Mathematics I & II	
			6	Zoology I & II	
			7	Botany I & II	
		Second	8	English	
			9	Marathi	
			10	Chemistry I & II	
			11	Physics I & II	
			12	Mathematics I & II	
			13	Zoology I & II	
			14	Botany I & II	
		Third	15	Chemistry I & II	
			16	Physics I & II	
			17	Mathematics I & II	
			18	Zoology I & II	
			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	

Department of B. Voc

Session	Course	Semester	Sr. No.	Subject	Page No.
2020-2021	**Building Technology**	First	1	English & Communication Skill –I	
			2	Soft Skill Development-I	
			3	Aptitude Development-I	
			4	Bar, Bender & Fixer -I	
			5	Bar, Bender & Fixer -II	
		Second	6	English & Communication Skill –II	
			7	Soft Skill Development-III	
			8	Aptitude Development –II	
			9	Shuttering Carpenter -I	
			10	Shuttering Carpenter -II	
		Third	11	English & Communication Skill –III	
			12	Soft Skill Development-III	
			13	Aptitude Development –III	
			14	Mason -I	
			15	Mason -II	
		Fourth	16	English & Communication Skill –IV	
			17	Soft Skill Development –IV	
			18	Aptitude Development –IV	
			19	Painter & Decorator –I	
			20	Painter & Decorator –II	
		Fifth	21	English & Communication Skill –V	
			22	Soft Skill Development –V	
			23	Aptitude Development –V	
			24	Scaffolder -I	

			25	Scaffolder -II	
		Sixth	26	Applied Computer Skill -I	
			27	Applied Computer Skill -II	
			28	Applied Computer Skill -III	
			29	Project - Industry Based Project	
Session	**Course**	**Semester**	**Sr. No.**	**Subject**	**Page No.**
2020-2021	**Food Processing & Engineering**	First	1	English & Communication Skill –I	
			2	Soft Skill Development-I	
			3	Aptitude Development-I	
			4	Fundamentals of Food & Nutrition	
			5	Introduction to Food Processing	
		Second	6	English & Communication Skill –II	
			7	Soft Skill Development-II	
			8	Aptitude Development –II	
			9	Food Microbiology	
			10	Dairy Technology	
		Third	11	English & Communication Skill –III	
			12	Soft Skill Development-III	
			13	Aptitude Development –III	
			14	Bakery and Confectionery	
			15	Emerging Technologies in Food Industry	
		Fourth	16	English & Communication Skill –IV	
			17	Soft Skill Development –IV	
			18	Aptitude Development –IV	
			19	Fruits, Vegetables and Post Harvest Technology	
			20	Beverages Processing	
		Fifth	21	English & Communication Skill –V	
			22	Soft Skill Development –V	
			23	Aptitude Development –V	
			24	Technology of Animal Foods	

			25	Cereals, Pulses Technology and Food Business	
		Sixth	26	Applied Computer Skill -I	
			27	Applied Computer Skill -II	
			28	Applied Computer Skill -III	
			29	Project - Industry Based Project	

Session	Course	Semester	Sr. No.	Subject	Page No.
2020-2021	**Software Development**	First	1	English & Communication Skill –I	
			2	Soft Skill Development-I	
			3	Aptitude Development-I	
			4	Computer Fundamentals & Networking	
			5	- C Programming	
		Second	6	English & Communication Skill –II	
			7	Soft Skill Development-III	
			8	Aptitude Development –II	
			9	Operating System Concepts & LINUX	
			10	Programming in 'C++'	
		Third	11	English & Communication Skill –III	
			12	Soft Skill Development-III	
			13	Aptitude Development –III	
			14	Data Structures	
			15	Web Designing	
		Fourth	16	English & Communication Skill –IV	
			17	Soft Skill Development – IV	
			18	Aptitude Development –IV	
			19	Database Management System	
			20	Web Development in PHP	
		Fifth	21	English & Communication Skill –V	
			22	Soft Skill Development –V	
			23	Aptitude Development –V	

			24	System Analysis & Software Engineering	
			25	JAVA Programming	
		Sixth	26	Applied Computer Skill -I	
			27	Applied Computer Skill -II	
			28	Applied Computer Skill - III	
			29	Project - Industry Based Project	
Session	**Course**	**Semester**	**Sr. No.**	**Subject**	**Page No.**
2020-2021	**Hardware Technology and Networking**	First	1	English & Communication Skill –I	
			2	Soft Skill Development-I	
			3	Aptitude Development-I	
			4	Computer fundamentals	
			5	Computer & Network Organization -I	
		Second	6	English & Communication Skill –II	
			7	Soft Skill Development-II	
			8	Aptitude Development –II	
			9	Operating System	
			10	Computer & Network Organization -II	
		Third	11	English & Communication Skill –III	
			12	Soft Skill Development-III	
			13	Aptitude Development –III	
			14	Computer Hardware & Networking administration	
			15	Network Programming	
		Fourth	16	English & Communication Skill –IV	
			17	Soft Skill Development – IV	
			18	Aptitude Development –IV	
			19	Mobile Computing	
			20	Internet Routing Design	
		Fifth	21	English & Communication Skill –V	
			22	Soft Skill Development –V	
			23	Aptitude Development –V	

			24	- Information & Network Security	
			25	Linux OS Server	
		Sixth	26	Applied Computer Skill -I	
			27	Applied Computer Skill -II	
			28	Applied Computer Skill - III	
			29	Project - Industry Based Project	

Department of Arts
Semester – I

Department of English
Compulsory English

Course Outcomes
Students will be able to -
CO1- Develop interest in English language through interesting lessons
CO2- Understand the lives of successful entrepreneurs through life sketches
CO3- Appreciate poetry through prescribed poems
CO4- Apply rules of grammar with the help of prescribed grammar syllabus
CO5- Motivate themselves by reading and understanding the lives of great personalities

Department of Marathi
Course Objectives and Outcomes
Compulsory Marathi (lkfgR;jax-Hkkx&1

Unit I:

izdj.k &1-mfn~"B& ^ik[kkyk ckGd ikaxqjo.ks* ;k yhGsrhy ejkBh Hkk"ksph vksG[k o tk.kho fo|kF;kZauk d#.k ns.ks-

lk/;& fo|kF;kZauk yhGkpfj=krhy x| ejkBh Hkk"ksph vksG[k o ekfgrh feGkyh-

izdj.k &2-mfn~"B&f'k{k.k ikBkrwu egkRek Qqys ;kauh Hkkjrkrhy f'k{k.kkP;k dsysY;k iqjLdkjkph ekfgrh ns.ks

lk/;& Hkkjrkrhy cgqtulektkP;k f'k{k.kkph egkRek Qqysauh lkafxrysyh mn~nh"Vs d'kh egRokph o mi;ksxh vkgsr ;kps eeZ fo|kF;kZauk dGwu vkys-

izdj.k &3-mfn~"B& Lokeh foosdkuankuh lkaxhrysY;k O;fDreRo fodklkfo"k;h fo|kF;kZauk cks/k dj.ks

lk/;& lkeF;Z gsp thou o nqcZyrk gkp e`R;q ;k Lokeh foosdkuankuh ;qodkalkBh dsysys ekxZn'kZukph tk.kho fo|kF;kZauk >kyh-

izdj.k &4-mfn~"B& jk"Vªlar rqdMksth egkjkt ;kauh lkafxrysY;k l`"VhP;k dk;n;kph o ifjorZukph ekfgrh fo|kF;kZauk ns.ks-

lk/;&^cnyk fdaok ejk* gk l`"Vhpkdk;nk vkgs o ifjorZu gs thoari.kkps y{k.k vkgs ;kph lk{k fo|kF;kZauk iVyh-

izdj.k &5-mfn~"B& dksadjkph dFksrwu xks[kysauh y"djkrwu iGwu vkysY;k f'kojkeP;k thoukps fp=.k dj.ks-

lk/;& y"djh is'kkrhy dMd f'kLrhph ekfgrh f'kojkeP;k O;fDreRokrwu fo|kF;kZauk >kyh-

Unit II:

dfork & 1-mfn~"B&eqdqanjktkuh ek; ejkBh Hkk"ksps lkafxrysyh egRo o oSf'k"V;kaph vksG[k fo|kF;kZauk d#.k ns.ks

lk/;& ek; ejkBh dforsrwu ejkBh Hkk"ksps egRo o ejkBhph oSf'k"V;s fo|kF;kZauk letwu vkyh-

dfork &2- mfn~"B& lar Kkus'ojkauh lkaxhrysY;k vHkaxkrwu fojgh.khps egRo fo|kF;kZauk iVowu ns.ks-

lk/;& ?kuq okts ?kq.k?kq.kk o iSy rks xs dkÅ dksdrkgs ;k vHkaxkrwu HkDrkph Hkxoark'kh ,d:Ik gks.;kph vks< o rGeGhph tk.kho fo|kF;kZuk >kyh-

dfork & 3-mfn~"B& naokps Fksac dforsrrwu ds'kolqrkauh js[kkVysY;k fulxkZrhy ?kVukaps o.kZu fo|kF;kZuk d#u lkax.ks-

lk/;& vkbZ o eqyxk ;kaP;krhy laoknkrwu fulxkZrhy fofHkUu ?kVukafo"k;hps dqrwgy ;kph ekfgrh fo|kF;kZuk >kyh-

dfork & 4-mfn~"B& Hkaxw ns dkfBU; ek>sa dforsrwu ijes'ojk'kh toGhd lk/k.;kph dfoP;k bZPNsPkh fo|kF;kZauk tk.kho d:u ns.ks-

lk/;& ck- lh- e<sZdjkauh ijes'ojk'kh toGhd lk/k.;klkBh Lor%P;k e;kZnk o mf.kokarwu eqDr gks.;klkBh ijes'ojk'kh ?kkrysY;k laoknkph ekfgrh fo|kF;kZauk feGkyh

dfork& 5-mfn~"B& pkj 'kCn dforsrwu dfous O;Dr dsysY;k visf{kr ifjorZukph tk.kho fo|kF;kZauk d#u ns.ks-

lk/;& ukjk;.k lqosZ ;kauh d"Vdjh]dkedjhaP;k LokHkhekukrwu ifjorZu ?kMwu ;sbZy ;kph ekfgrh fo|kF;kZauk feGkyh-

Unit III:

izdj.k & 1-mfn~"B& O;kogkfjd ejkBhph vko';drk thou O;ogkjklkBh dk vkgs ;kph ;FkkFkZrk fo|kF;kZauk iVfo.ks-

lk/;& thou O;ogkjkr O;kogkfjd ejkBhph mi;qDrrk vlY;kps fo|kF;kZauk dGys rlsp vusd O;ogkj {ks=kr O;kogkfjd ejkBhph mi;qDrrk vlY;kps Li"V >kys-

izdj.k & 2-mfn~"B&Hkkf"kd laokn O;ogkjkP;k ewyrRokaph vksG[k o ekfgrh fo|kF;kZauk d#u ns.ks-

lk/;& Hkk"kk gs laoknkps ek/;e vlwu ys[ku] okpu] Jo.k o Hkk"k.k ;krwu Hkk"kspk laokn O;ogkj pkyrks gs dGys lkscrp Hkkf"kd laokn O;ogkjkP;k fofo/k eqyrRokph vksG[k fo|kF;kZauk >kyh-

Department of Political Science
Course Objectives and Outcomes

Course Objectives

The Students Will Be:

- 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.

Course Outcomes

The Students Will Be Able:

- To understand the basic concept and ideological orientations of political science discipline.

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

Department of Economics

Course Objectives and Outcomes

Unit – I
Introduction to Economics
Objective - To develop preliminary knowledge of economic concepts for understanding of Economics Nature, Definition and Method of Economics Analysis,
Outcomes – Students learnt preliminary knowledge of economic concepts and definition
Unit – II
Law of Demand and Law of Supply Demand
Objective - To provide orderly and objective way of thinking about economic Demand & Supply Theory
Outcomes- The students have learned the knowledge of Demand and Supply
Unit – III
Consumer Behavior Utility Analysis
Objective - To introduce the essential Basic principles of Economics To introduce the essential principles for Consumer Behavior Utility Analysis
Outcomes- The Knowledge gained Consumer Behavior and Utility Analysis
Unit – IV Production Function
Objective - Develop the ability to explain core economic various factor of production
Outcomes - Students learnt about the production function

Department of English
English Literature

Course Learning Outcomes:

CO1. Students should be familiar with characteristic literary texts within a given historical, geographical, and socio- cultural context.

CO2. Students should be able to apply analytical skills to literary and cultural texts of multiple genres.

CO3. Students should be able to identify, and describe the values, and themes present in the prescribed text.

CO4. 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 Outcomes

Unit - I Understanding Sociology
Objective - To Make Students know in details about Understanding Sociology
Outcomes - Student Understood the concept of Understanding Sociology
Unit - II Basic Concepts in Sociology
Objective - To Make Students Aware of Basic Concepts in Sociology
Outcomes -Student Understood the concept of Basic Concepts in Sociology

Unit - III Socialization
Objective - To Make Students Aware of Socialization
Outcomes - Student Understood the concept of Socialization
Unit - IV Social Structure
Objective - To Make Students know in details about Social Structure
Outcomes - Student Understood the concept of Social Structure

Department of History

Course Objectives and Outcomes

PROGRAMME OUTCOME	
Department of History	**After successful completion of three year Degree Programme in History a student should be able to know**
Programme Outcome	➢ 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 ➢ PO7: Studying history inspires patriotism ➢ PO8:: The study of history reveals the national-international relations of the country.
Programme Specific Outcome	➢ PSO1: Knowing the importance of culture gives you the ability to make decisions in yourself ➢ PSO2: Gains the ability to make decisions while living life ➢ PSO3: Employment opportunities are obtained through competitive examinations ➢ PSO4: New Values - Able generation is formed by acquiring moral

	Values.
Course	**Outcome completion of the course students should be able to:**
B.A. -I Sem. - I History of India (Beginning - 1525) 1) To know information about Harappan culture, Vedic culture 2) To understand information about Jainism- Buddhism 3) Understanding slavery and sultanate 4) To get information about devotional movement and Sufi sect	➢ Co-1 Students understood Harappan culture and Vedic culture ➢ Co-2 I got detailed information about Jainism-Buddhism ➢ Co-3 Understood the value of slavery and sultanate ➢ C0-4Understood information about devotional movement and Sufi sect.

Department of Marathi
Marathi Literature

Unit I: Ekk>h tUeBsi&- fo-nk- lkojdj ¼vkRepfj=½&

mfn~"B& Lokra«;foj fo-nk- lkojdj ;kaph Hkkjrh; Lokra™;krhy Hkwfedk o lkojdjkaps O;fDreRo letkowu lkax.ks-

lk/;& Lokra«;foj lkojdjkaph Lokra™;izsjhr Hkwfedk o ;kaxnku rlsp R;kaps O;fDreRo ;kph lR;rk fo|kF;kZauk letyh-

Unit II:

izfrHkk lk/ku& uk-lh- QMdss

mfn~"B& lkfgR;kph vfHk#ph o lkfgR;kph fufeZrhph vksG[k o ekfgrh fo|kF;kZauk ns.ks-

lk/;&lkfgR; izdkj] vfHk#ph o fufeZrh o jlkLokn ;kc/ny fo|kF;kZauk ekfgrh >kyh-

Semester-II
Department of English
Course Objectives and Outcomes
Compulsory English

Students will be able to -

CO6- Study lessons based on the themes humor, emotional bonding, ethics and values

CO7- Motivate themselves even in adverse situations through reading the lives sketches of successful people

CO8- Prioritize life's needs over wants

CO9- Apply the grammar lessons to spoken English

CO10- Grasp the nuances of learning a foreign language

Department of Marathi
Course Objectives and Outcomes
Compulsory Marathi (lkfgR;jax-Hkkx&1)

Unit I:

izdj.k & 6-mfn~"B&Hkkjrh; yksd'kkghps HkforO; dk;\ ;k ikBkP;k vk/kkjs yksd'kkghph ekfgrh d#u ns.ks-

lk/;& MkWa- ckcklkgsc vkacsMdj ;kauh Hkkjrh; yksd'kkgh vkf.k tkrhO;oLFkslaca/kh cgky dsysY;k fopkjkaph fo|kF;kZauk vksG[k iVyh o ekfgrh feGkyh-

izdj.k & 7-mfn~"B& xkMxsckckauh ysf[kdsyk nk[foysY;k ‘kkGspk ekxZ o Kkukpk izdk’kkph :to.kwd dj.ks-

lk/;&lhek lk[kjsaps O;fDreRo ?kM.;klkBh deZ;ksxh xkMxsckckauh nk[kfoysyk ‘kkGspk ekxZ o Kkukpk izdk’k dlk mi;qDr Bjyk ;kph egrh fo|kF;kZauk iVyh-

izdj.k & 8-mfn~"B&HkkjrjRu vVyfcgkjh oktis;h ;kaP;k O;fDreRokph vksG[k fo|kF;kZauk d#u ns.ks-

lk/;&vtkr’k=w vVyth ;kaP;k vkxG;k osxG;k O;fDrfp=.kkph ‘kjn iokj ;kauh d#u fnysyh vksG[k ekfgrh fo|kF;kZauk >kyh-

izdj.k &9-mfn~"B&tkr pksjhP;k vkiRrheqGs dks.krs ladVs ;srkr ;kph tk.kho fo|kF;kZauk d#u ns.ks-

lk/;&ckcqjko ckxqy ;kauh vkiyh vLi`’; egkj gh tkr yifoY;keqGs R;kauk vkysyk vuwHkokps o.kZu fo|kF;kZauk letwu vkys-

izdj.k &10-mfn~"B& iqf.kZ;k ;k fcgkj jkT;krhy ekxlysY;k fTYg;krhy yksdkaP;k nq%[kh d"Vh thoukph ekfgrh fo|kF;kZauk ns.ks-

lk/;& vfuy vopV ;kauh iwf.kZ;ke/kwu js[kkVysys fL;kaps cfnLr thou] ’kkGk] uksdÚ;kapk iz’u] jktdh; ifjfLFkrh] etwjkaps gykdhps thou] miklekjh b-ph ekfgrh fo|kF;kZauk feGkyh-

Unit II:

dfork & 6-mfn~"B&eqDr i{kh ;k dforsrw fiatÚ;krhy i{kh Lokra= dk ukdkjrks ;kph ekfgrh ns.ks-

lk/;& xqykehph lo; tMY;keqGs i{kh fiaTÚ;krwu eqDr dsY;kojgh Lokra= ukdkjrks ;kph Kku fo|kF;kZauk izkIr >kys-

dfork &7-mfn~"B& thou ej.kkc/ny cfg.kkckbZauh dsysY;k fparukph lkFkZdrk iVowu ns.k-

lk/;& tUee`R;q fo"k;h dof;=hus dforsr izxV dsysys fopkj ekuoh thoukph lkFkZdrk iVowu nsrkr ;kph fo|kF;kZauk [kk=h iVyh-

dfork & 8-mfn~"B&jk"Vªlarkauk xjhckP;k >ksiMhe/khy lq[kkph ekfgrh fo|kF;kZauk ns.ks

lk/;& egkykrhy lq[kkis{kk ygku’kk >ksiMhrhy lq[k gs egku vlY;kph izfprh dforsP;k HkkokFkkZo#u fo|kF;kZauk vkyh-

dfork & 9-mfn~"B&ek.klkP;k eukrhy eksBsiuk ukfglk gks.;kph dfoph b’ojkdMs dsysyh ekx.khps Kku fo|kF;kuk ns.ks-

lk/;&dfous vkiY;k thHksojpk yksHk tGw ns.;klkBh o eh i.kkps lkezkT; ukghls gks.;kph dfoph Hkkouk fo|kF;kZauk letyh-

dfork& 10-mfn~"B&dqlqekxztkaP;k dforsrwu ekuoh lkeF;Z fulxkZoj dls ekr djrs ;kph vksG[k fo|kF;kZauk d:u ns.ka-

lk/;&dforsrhy uk;dkpk xaxk unhP;k iqjkeqGs lalkj m?oLr gksÅugh ljkP;k vkf’kZoknkph Fkki ekx.kkjk uk;d izfrdwy ifjfLFkrhoj ekr d#u lalkj mHkk djrks ;kph fo|kF;kZauk izsj.kk feGkyh-

Unit III:

izdj.k & 3-mfn~"B& i=ys[kukps Lo#i] i=kps izdkj] i=ys[kkps ?kVd] oSf’k"V;s o i=kpk uewuk fo|kF;kZuk letkowu ns.ks-

lk/;& fo|kF;kZauk i=kps L#i dls vlrs]?kVd dks.krs] [ktxh i=s o dk;kZy;hu i=s d’kh fygkohr ;kps dkS’kY; o Kku izkIr >kys-

izdj.k & 4-mfn~"B&lkjka’kys[ku dls djkos o lkjka’k ys[ku djrkauk dks.krh dkGth ?;koh o lkjka’kys[kukps Qk;ns ;kfo"k;h fo|kF;kZuk ekfgrh ns.ks-

lk/;& fo|kF;kZuk lkjka’kys[ku dj.;kph ekfgrh feGkyh rlsp fnysY;k lkjka’kkps ,d r`fr;ka’k ys[ku dj.;kps dkS’kY; izkIr gksÅu lkjka’kys[kukps Qk;ns letys-

Department of Political Science

Course Objectives and Outcomes

Course Objectives

The Students Will Be:

- 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.

Course Outcomes

The Students Will Be Able:

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

Department of Economics
Course Objectives and Outcomes
Micro Economics Theory -II

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

Objective- Explain the Kinds of Cost and Revenue Analysis Cost of Production

Outcomes – Demonstrate knowledge of Cost and Revenue Analysis

Unit – II: Market Structure and Perfect Competition Market

Identify Characteristics of Perfect Competition.

Outcomes – Write assignments that are coherent, organized, concise, grammatically correct and well-presented

Unit – III: Monopoly and Imperfect Competition Market

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

Outcomes – Apply economic theory in the Monopoly and Imperfect Competition

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

Objective- Explain the contribution of Factors of production

Outcomes – Students learnt 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 reading of multiple genres of literature

CO8- Students should be able to identify, 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 Outcomes
Themes and Perspectives

Unit - I Culture and Society

Objective - To Make Students know in details about culture and society

Outcomes - Student Understood the concept of culture and society

Unit - II Social Deviation and Social Control

Objective – To Make Students Aware of Social Deviation and Social Control.

Outcomes – Student Understood the concept of Social Deviation and Social Control

Unit - III Social Stratification

Objective - To Make Students know in details about Social Stratification.

Outcomes - Student Understood the concept of Social Stratification.

Unit - IV Concept of Gender

Objective - To Make Students Aware of Concept of Gender.

Outcomes -Student Understood the concept of Concept of Gender.

Department of History
Course Objectives and Outcomes

B. A I Sem. -II History of India (1526 - 1761) 1) How Mughal power was established in India. 2) How was the administration of Sher shah Suri 3) Mughal carpet administration 4) Information about Chhatrapati Shivaji and Mughal relationship 5) Why and why Panipat III war took place	➢ Co-1 Understood how the Mughal power was established in India. ➢ Co-2 Learned information about Sher Shah Suri and Mughal administration ➢ Co-3 I got information about Chhatrapati Shivaji and Mughal relationship ➢ Co-4 Understood the Panipat Third War and the arrival of the British.

Department of Marathi
Marathi Literature
Course Objectives and Outcomes

Unit I:

uVlezkV&fo- ok- f'kjokMdj ¼ukVd½&

mfn~"B& uVlezkV ;k ukVdkrwu ekuoh thoukrhy dkSVqafcd]lkekftd o uVlwzkV vliklkgsc csyo.kdj ;kaps la?k"kZizo.k thoukph ekfgrh fo|kF;kZauk ns.ks-

lk/;& fo- ok- f'kjokMdjkauh uVlezkV ukVdkr js[kkVysY;k vliklkgsc csyo.kdjkaP;k O;fDreRokP;k vk/kjs ekuoh thoukph 'kksdkafrdk fo|kF;kZauk dGyh-

Unit II:

lkfgR;izdkj&dknacjh] pfj=]vkRepfj=-

mfn~"B& dknacjh] pfj=]vkRepfj=-;k lkfgR; izdkjkph vksG[k o ekfgrh fo|kF;kZauk ns.ks-

lk/;& dknacjh] pfj=]vkRepfj=-;k lkfgR; izdkjkph vksG[k o ekfgrh fo|kF;kZauk >kyh--

B.A. Part -II
Semester-III
Course Objectives and 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 about the beauties of nature and sublime.
Outcome-Students tried to apply the values of nature and sublime.

Unit III: Objective- Making students understand the social evils of the society and the values of Humanity.
Outcome-Students were exposed to the social evils of the 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 Outcomes
Compulsory Marathi
lkfgR; laokn-Hkkx-2

Unit I:

izdj.k &1-mfn~"B& rsjkO;k 'krdkrhy n`"VkarikBkrhy x| Hkk"kk'kSyh] JhpØ/kjLokehps pfj=] egkuwHkko iaFkk fo"k;h ekfgrh ns.ks-
lk/;& n`"VkarikBkrhy x| Hkk"kk'kSyh] JhpØ/kjLokehps pfj=] egkuwHkko iaFkkps lektkyk fnysys ;ksxnku fo|kF;kZauk letwu vkys-
izdj.k &2-mfn~"B&L=h iq#"k rqyuk ;k ikBkrwu rkjkckbZ f'kans ghus ikjra™;kaP;k dkGkr fL=;kaP;k uf'kch ;s.kkÚ;k nqxqZ.kkaph tk.kho D#u ns.k-s
lk/;& loZ izdkjps nqxqZ.k fL=;karp vlrkr ;k iq#"kkaP;k iwoZxzgnwf"kr fopkjkaph fo|kF;kZuk ekfgrh izkIr >kyh-
izdj.k &3-mfn~"B&;'kLoh oDrk gks.;klkBh iz-ds-v=s ;kauh lkaxhrysyk vuwHko fo|kF;kZuk lkax.ks-
lk/;& fo|kF;kZauh ;'kLoh oDrk gks.;klkBh vŒ;kaP;k vuqHkokpk cks/k ?ksryk-
izdj.k &4-mfn~"B&ia<jiwj o foB~Bykps n'kZukph ekfgrh fo|kF;kZauk d#u ns.ks-
lk/; & ia<jiwj o ikaMqjaxkps laiw.kZ o.kZu rsFkhy HkSxksfyd ifjfLFkrhph ekfgrh fo|kF;kZauk izkIr >kyh-
izdj.k &5-mfn~"B&jk"Vªlarkp;k ers f'k{kd gkp jk"Vªkpk HkkX;fo/kkrk vlY;kph [kk=h fo|kF;kZauk d#u ns.ks-
lk/;& f'k{kdkps fo|kFkhZ] lektkizrh dsysY;k laiw.kZ dk;Zph o 'kS{kf.kd dk;Zph tk.kho fo|kF;kZauk dGyh-

Unit II:

dfork &1-mfn~"B&lar ukensokauh JhfoB~Bykps o.kZu] foB~ByHkfDrps o ukeLej.kkps egkRE; fo|kF;kZauk lkax.ks-

lk/;&vHkaxkkP;k fuWiukrwu foB~BykP;k vuar yko.;kph 'kksHkk] foB~ByHkfDrps o ukeLej.kkps egkRE; fo|kF;kZauk dGys-

dfork &2-mfn~"B& ekjksiarkuh lRlaxrhpk o.kZu dsysyk efgek lkax.ks-

lk/;& lRlaxrhr lektftoukyk mn~cks/ku dj.;kps lkeF;Z vkgs ;kph fo|kF;kZauk ekfgrh feGkyh-

dfork &3-mfn~"B&Hkyk tUe gk rqyk ykHkyk ;krwu jke tks'khauh lkaxhrysY;k ekuoh thoukps lkFkZdRo iVfo.ks-

lk/;& mins'kij yko.khrwu ekuoh thoukph lkFkZdrk fo|kF;kZauk iVyh-

dfork &4-mfn~"B&'ksrdjh&d"VdÚ;kaph thouxkFkk o ijhfLFkrhps o.kZu dj.ks-

lk/;&fo|kFkhZ xzkeh.k Hkkxkryk vlwu 'ksrdÚ;kaP;k ijhfLFkrhph tk.kho >kyhs-

dfork& 5-mfn~"B& doh vfuykaP;k fojk.khrwu doh eukP;k mnklhursps n'kZu ?kMfo.ks-

lk/;&dfoyk ykHkysY;k nq%[kkeqGs dfoP;k eukyk mnkflurk izkIr >kyh ;kph fo|kF;kZauk izfprh vkyh-

Unit III:

izdj.k & 1-mfn~"B&bfro`Rr ys[ku] izdkj]i/nrh o ys[kukph dkGth ;kfo"k;h fo|kF;kZauk ekfgrh ns.ks-

lk/; &bfro`Rr Eg.kts lHksph uksan] izdkj i/nrh o ys[ku djrkauk ?;ko;kph dkGth ;kph fo|kF;kZauk ekfgrh feGkyh-

izdj.k & 2-mfn~"B&izlkjek/;es vkf.k o`Rrys[ku ;kfo"k;h fo|kF;kZauk ekfgrhps fo'ys"k.k dj.ks-

lk/;&n`d JkO; izlkjek/;ekaP;kOn~kjs ckreh] ckrehps ys[kuo o`Rri=h; ys[ku dls dsys tkrs ;kph ekfgrh fo|kF;kZauk >kyh-

Department Of Political Science
Course Objectives and Outcomes

Course Objectives

The Students Will Be:

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

Course Outcomes

The Students Will Be Able**:**

- To explain with the vital contemporary emerging issues of center-state relation, 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 attentive current political issues in 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.

Department of Economic
Course Objectives and Outcomes

Unit – I Introduction to Macro Economics
Objective - Discuss and the Introduction of Macro Economics
Outcomes - Demonstrate knowledge of Macro Economics
Unit – II National Income
Objective - Explain the Concept of National income
Outcomes - Identify various Concept of National income
Unit – III Money and Value of Money
Objective Evaluate the value of money and Theories of Value of Money
Outcomes – Students learnt Theories of Value of Money
Unit – IV Output and Employment
Objective - Introduce the theory of Employment
Outcomes- Students will learn a theory of Employment

Dept. of English
Course Objectives and 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 about revolution and its effects.
Outcome-Students realized about 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
Foundations of Social thought

Unit - I Emergence of Sociology as a Discipline
Objective - To Make Students know in details about Emergence of sociology as a Discipline
Outcomes - Student Understood the concept of Emergence of sociology as a Discipline
Unit - II Founders of Sociology I
Objective - Student Understood the concept of Founders of Sociology-I (August Comte, Herbert Spencer,)
Outcomes - Student Understood the concept of Founders of Sociology-I (August Comte, Herbert Spencer)
Unit - III Founders of Sociology II
Objective - Student Understood the concept of Founders of Sociology-II (Charles of Horton Cooley, Emile Durkheim)
Outcomes - Student Understood the concept of Founders of Sociology-II(Charles of Horton Cooley, Emile Durkheim)
Unit - IV Founders of Sociology III
Objective - Student Understood the concept of Founders of Sociology-III (Karl Marx, Max Weber)
Outcomes -- Student Understood the concept of Founders of Sociology-II(Karl Marx, Max Weber)

Department of History

B.A.II (III -Sem) History of India(1764 - 1884) 1)Battle of Buxar and English policy 2) Kayamdhara Methods, Ryotwari , and Lord Wellesley 3) The uprising of 1857 (independent war) results 4) How did nationalism emerge in India?	➢ Co-1 The Battle of Buxar and how the British implemented their policy in India ➢ Co-2 Gained information about working methods, Kaymdhara ,ryotwari and Mahalwari and Lord Wellesley deployment forces. ➢ Co-3 The uprising of 1857 (independent war) result was known ➢ Co-4 Learned how nationalism emerged in India

Department of Marathi
Marathi Literature
Course Objectives and Outcomes

Unit I: mfn~"B& dqlqekxztkP;k jl;k=k dfork laxzgkP;k vk/kkjs fofo/k izdkjP;k dforkaph vksG[k o ekfgrh fo|kF;kZauk ns.ks-

Lkk/;&dqlqekxztkaP;k dforklaxzgkrwu lkekftd dfork]jktdh;] jk"Vªh; dfork] izse dfork]fulxZ dfork o rRoKkuij dforkaph ekfgrh fo|kF;kZauk >kyh-

Unit II:

mfn~"B&dkO;'kkL= ifjp; ;krwu dkO;dkj.k o 'kCn'kDrh ;kfo"k;h fo|kF;kZauk ekfgrh ns.ks-

lk/;& fo|kF;kZauk dkO; fufeZrhps dkj.k o 'kCnkP;k vfHknk] O;atuk o y{k.kk ;k 'kCn'kDrhph ekfgrh izkIr >kyh-

Semester-IV
Department of English
Course Objective and Outcomes
Compulsory English

Unit I: Objective-Making students aware of the importance of faith and friendship
Outcome-Students understood the value friendship.
Unit II: Objective- Making students realize about the discipline and struggle.
Outcome-Students tried to apply the discipline and struggle in their lives.
Unit III: Objective- Making students understand the presence of mind.
Outcome- Students were put through various activities to get the feel of it.
Unit IV: Objective-Grammatically correct usage of Tense and Voice.
Outcome-Students tried to solve the examples of Tense and Voice.
Unit V: Objective-To create the ability to use English for the purpose of communication.
Outcome-Students attempted to use English for the purpose of communication in the Class.

Department of Marathi
Compulsory Marathi
lkfgR;jax-Hkkx-2

Unit I:

izdj.k & 1-mfn~"B&vkKki=kP;k vk/kkjs jktdrZO;s ikBkrwu f'koN=irhaP;k drcxkkjhpk cks/k fo|kF;kZauk d#u ns.ks-

lk/;& jktdrZO;s ikBkrhy f'kokthaP;k dk;Zdr`ZRokph fo|kF;kZuh tkf.ko >kyh o fo|kF;kuh cks/k ?ksryk-

izdj.k &2-mfn~"B&LojkT; o lqjkT; ikBkrwu yksdekU; fVGdkaP;k Hkkjrh; Lokra«;klaca/kh ;ksxnkukph fo|kF;kZauk ekfgrh d#u ns.ks-

lk/;& Hkkjrh; Lokra«;kr yksdekU; fVGdkaP;k O;fDrfp=.kkrwu fuHkZ;rk] fu%Li`grk] Toyar ns'kHkDrh ;k xq.kkapk izR;; fo|kF;kZauk vkyk-

izdj.k & 3-mfn~"B& ek/;kUg ;k ikBkrhy dqlqekorh ns'kikaMs ;kaps ek/;kUghP;k osGsrhy vuqHko fo|kF;kZauk lkax.ks-

lk/;& ek/;kUghP;k osGsrhy lerksyi.kk] xaHkhjrk] vfHktkr lkSan;Z o ckuan ;k xq.kkaph tk.kho fo|kF;kZauk >kyh-

izdj.k &4-mfn~"B&vOnSrkpk lk{kkRdkj ;krwu lkus xa:thaP;k lans'kkph fo|kF;kZae/;s #to.kwd dj.ks-

lk/;& lkus xq:thaP;k^ vOnSr Hkkjrh; laLd`rhpk vkRek vkgs] ;k rRokph fo|kF;kZauk tk.kho >kyh-

izdj.k &5-mfn~"B& vk/kkj ;k dFksrwu fo-l- tksx ;kauh js[kkVysY;k HkkÅdkdkaph 'kksdkafrdk fo|kF;kZauk lkax.ks-

lk/;&vhadkjh] v/ke laLd`rhr okoj.kkÚ;k HkkÅdkdkaP;k 'kksdkafrdspk fo|kF;kZauh cks/k ?ksryk-

Unit II:

dfork & 1-mfn~"B& vHkaxok.khrwu lar pks[kesGkdkyhu lkekftd fo"kerk o vU;k;dkjd okx.kwdhph ekfgrh ns.ks-

lk/;&rsjkO;k 'krdkrhy lkekftd ifjfLFkrh :<h ijaijkaph ekfgrh pks[kkesGkP;k vHkaxkrwu fo|kF;kZauk letwu vkyh-

dfork &2-mfn~"B&Økarhpk t;t;dkj dforsrwu HkkjrkP;k Lokra™;klkBh Økarhdkjdkauh fnysY;k ;ksxnkukph ekfgrh lkax.ks-

lk/;&dqlqekxztkauh O;Dr dsysyh Økarhdkjdka P;k eukrhy Lokra™;klaca/kh ns'kHkDrhph tk.kho fo|kF;kZauk >kyh-

dfork & 3-mfn~"B&lR; ;k ladYiusps Lo#i lR;kP;k tkrhyk dforsrwu fo|kF;kZauk lkax.ks-

lk/;&'kjPpanz eqfdrcks/k ;kaP;k dforsrwu la?k"kZ'khy o`Rrh vkf.k foijhr fLFkrhrhy mrqax vk'kkokn ;kph ekfgrh fo|kF;kZauk feGkyh-

dfork & 4-mfn~"B& jkr>Mhpk ikÅl dforsrwu 'ksrkrY;k fulxkZ'kh dfoP;k o`Rrh rknkRE; iko.;kph lk{k iVfo.ks-

lk/;& izseklDr vkf.k fulxkZlDr v'kk nksu #ikaph lk;qT;rk o ikÅlkph fo|kF;kZauk lk{k iVyh-

dfork& 5-mfn~"B&ekÖ;k dforsph po dforsrwu dfoP;k dkO;fufeZrhps iz;kstu fo|kF;kZauk lkax.ks-

lk/;& banzftr Hkkysjko ;kauh O;Dr dsysyh dkO;fo'okph Hkqfedk fofo/k 'kCn izfrekarwu fo|kF;kZauh letwu ?ksryk-

Unit III:

izdj.k & 3-mfn~"B&iVdFkk o laoknys[ku ;kc/n~yph ekfgrh fo|kF;kZauk ns.ks-

lk/;& flusekr dFkk]iVdFkko laoknys[ku dls vlrs ;kph tk.kho fo|kF;kZauk >kyh-

izdj.k & 4-mfn~"B& Lejf.kdsps laiknu o brj laiknudk;Z o Lo:i Li"V dj.ks-

lk/;&Lejf.kdsps laiknu dk;Z o ekfldkps dk;Z dk; vlrs gs fo|kF;kZauk dGys-

Department Of Political Science
Course Objectives and Outcomes

Course Objectives

The Students Will Be:

- Familiarized with the vital contemporary emerging issues of center-state relation,

political parties, emergence of new leadership at different levels, demand for autonomy movement, ethnic conflicts etc.

- Analyze the strengths and weakness of Indian political processes, both in terms of their effectiveness in responding to public policy needs and to retain constitutional protections.
- Locate current political issues in context of wider debates about democratic life in India and the capacity of political institutions.
- Acquainted with the basic understanding of concept and issues concerning Right to Information Act, Human Rights and Challenges.

Course Outcomes

The Students Will Be Able:

- To explain with the vital contemporary emerging issues of center-state relation, 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 attentive current political issues in 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.

Department of Economics
Course Objectives and Outcomes

Unit -I: Commercial and Central Bank Commercial Banks:

Objective - Explain the function of Commercial and Central Bank and why it is importance

Outcomes – Students learn the function of Commercial and Central Bank and why it is importance

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

Objective - Introduce RBI And Innovation in Banking sector

Outcomes – Students learn about the structure of RBI and its function

Unit -III: Financial Market Money Market:

Objective - Define Financial Market

Outcomes – Students Will be identify Financial Market Function

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

Objective - Explain the importance of Health Economics and Statistics

Outcomes – Students will be well learn knowledge of Health Economics and Statistics

Department of English
English Literature

Course Objectives and Outcomes

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 about revolution and its effects.

Outcome-Students realized about 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
Indian Sociological Tradition

Unit - I Theoretical Roots of Caste in India
Objective - To Make Students Aware of Theoretical Roots of Caste in India (B.R. Ambedkar, G.S. Ghurye)
Outcomes - 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 Students Aware of Social Change from Indian Perspective(M.N. Shriniwas, D.P.Mukharjee)
Outcomes - 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 Students Aware of Indian Society and Contemporary Change (R.K. Mukharjee, S.C. Dube)
Outcomes - 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)
Outcomes - Student Understood the concept of Gender and Society in India **(** Tarabai Shinde, Jyotiba Fule and Savitribai Fule)

Department of History
Course Objectives and Outcomes

B.A.II (IV -Sem) History of India(1885 -1947) 1) How the National Congress was formed 2) What was the role of Jahal and Mawal ? 3) Non-cooperation, civil disobedience movement 4) Indian Independence Mountaineering Scheme	➢ Co-1 Learned about the establishment of the National Congress ➢ Co-2 Understood the role of Jahal and Mawal ➢ Co- 3 Information was received about non-cooperation, civil disobedience movement ➢ Co-4 Gained detailed knowledge of how India became independent

Department of Marathi
Marathi Literature
Course Objectives and Outcomes

Unit I:
mfn~"B& dqlqekxztkP;k jl;k=k dfork laxzgkP;k vk/kkjs fofo/k izdkjP;k dforkaph vksG[k o ekfgrh fo|kF;kZauk ns.ks-
Lkk/;&dqlqekxztkaP;k dforklaxzgkrwu lkekftd dfork]jktdh;] jk"Vªh; dfork] izse dfork]fulxZ dfork o rRoKkuij dforkaph ekfgrh fo|kF;kZauk >kyh-
Unit II:
mfn~"B&dkO;'kkL= ifjp; ;krwu dkO;dj.k o 'kCn'kDrh ;kfo"k;h fo|kF;kZauk ekfgrh ns.ks-

lk/;& fo|kF;kZauk dkO; fufeZrhps dkj.k o 'kCnkP;k vfHknk] O;atuk o y{k.kk ;k 'kCn'kDrhph ekfgrh izkIr >kyh-

B. A. III
Semester-V
Department of Marathi
Compulsory Marathi
Course Objectives and Outcomes

Unit I:

yhGkpfj= ,dkad –MkW- enu dqGd.khZ

mfn~"B& yhGkpfj=kP;k ,dkad xzaFkkP;k vk/kkjs rRdkyhu lkekftd ifjfLFkrhpk vk<kok ?ks.ks-

lk/;&yhGkpfj= ,dkad xzaFkkrwu yhGkaP;k vk/kkjs fo|kF;kZauk rRdkyhu lkekftd] /kkfeZd o jktdh; ifjfLFkrh rlsp ,dwu lektftoukph vksG[k fo|kF;kZauk >kyh-

Unit II: nfyr lkfgR; osnuk o fonzksg& Hkkypanz QMds

mfn~"B& nfyr lkfgR; osnuk o fonzksg ;krwu nfyr lkfgR;kP;k vH;klkps egRo lkfgR;krhy ;ksxnku o egRp fo|kF;kZauk iVowu ns.ks-

lk/;& nfyr lkfgR;kpk mxe] pGoG rlsp lkfgfR;dkaps iszj.kkLFkku o dk;Z ;kph tk.kho fo|kF;kZauk >kyh-

Hkk"kkfoKkukpk ifjp;- MkW- ekyls] MkW- dqGd.khZ

mfn~"B& Hkk"kkfoKkukpk ifjp; fo|kF;kZauk d:u ns.ks-

lk/;& izek.k Hkk"kk vkf.k cksyh rlsp Lihe o infopkj ;kaph ekfgrh fo|kF;kZauk >kyh-

Department of Political Science
Course Objectives and Outcomes

Course Objectives
The Students Will Be:

- 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.

Course Objectives
The Students Will Be Able:

- 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.

Department of Economics
Course Objectives and Outcomes

Unit – I Nature of Indian Economy
Objective - Introduction the the basic Knowledge of Indian Economy
Outcomes – Students will be learnt about the Knowledge of Indian Economy.
Unit – II Agriculture

Objective - Explain the Importance of Agriculture Sector in Indian Economy.
Outcomes – Students learn the Importance of Agriculture Sector in Indian Economy
Unit – III - Industry

Objective - Explain Importance and Role of Industries in Economic Development
Outcomes – Students will be learnt about the Knowledge of Industries in Economic Development
Unit – IV- Employment and Poverty
Objective- To develop preliminary knowledge of Employment and Poverty
Outcomes – Students learnt preliminary knowledge Employment and Poverty

Programme : B.A. English Literature Course : SEM-V

Objective: To enable students to analyse literary text.

Outcome: Students showed their ability to analyse literary text.

Objective: To enable students to interpret literary texts.

Outcome: Students showed their ability to interpret literary text.

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

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

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

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

Department of sociology
Course Objectives and Outcomes

Indian Society: The Structural Issues
Unit - I Indian Society, Structure and Inequality
Objective - To Make Students know in details about Indian Society, Structure and

Inequality

Outcomes - Student Understood the concept of Indian Society, Structure and Inequality

Unit - II Family in Contemporary India

Objective - To Make Students Aware of Family in Contemporary India

Outcomes -Student Understood the concept of Family in Contemporary India

Unit - III Tribal Issue and Problems in India

Objective - To Make Students Aware of Tribal Issue and Problems in India

Outcomes - Student Understood the concept of Tribal Issue and Problems in India

Unit - IV Rural Community in India

Objective - To Make Students know in details about Rural Community in India

Outcomes - Student Understood the concept of Rural Community in India

Department of History

Course Objectives and Outcomes

B.A.III (V-Sem) Modern World (1789 - 1920) 1) What were the causes and consequences of the French Revolution? 2) How imperialism came into being 3) World War I - Treaty of Vasai 4) United Nations and performance	➢ Co-1 The French Revolution was also the first revolution in the world ➢ Co-2 What are the reasons for imperialism? ➢ Co-3 World War I - The Treaty of Vasai ➢ Co-4 Learned about the United Nations and its achievements and failures

Department of Marathi

Course Objectives and Outcomes

Marathi Literature

Unit I:

yhGkpfj= ,dkad –MkW- enu dqGd.khZ

mfn~"B& yhGkpfj=kP;k ,dkad xzaFkkP;k vk/kkjs rRdkyhu lkekftd ifjfLFkrhpk vk<kok ?ks.ks-

lk/;&yhGkpfj= ,dkad xzaFkkrwu yhGkaP;k vk/kkjs fo|kF;kZauk rRdkyhu lkekftd] /kkfeZd o jktdh; ifjfLFkrh rlsp ,dwu lektftoukph vksG[k fo|kF;kZauk >kyh-

Unit II: nfyr lkfgR; osnuk o fonzksg& Hkkypanz QMds

mfn~"B& nfyr lkfgR; osnuk o fonzksg ;krwu nfyr lkfgR;kP;k vH;klkps egRo lkfgR;krhy ;ksxnku o egRp fo|kF;kZauk iVowu ns.ks-

lk/;& nfyr lkfgR;kpk mxe] pGoG rlsp lkfgfR;dkaps iszj.kkLFkku o dk;Z ;kph tk.kho fo|kF;kZauk >kyh-

Hkk"kkfoKkukpk ifjp;- MkW- ekyls] MkW- dqGd.khZ

mfn~"B& Hkk"kkfoKkukpk ifjp; fo|kF;kZauk d:u ns.ks-

lk/;& izek.k Hkk"kk vkf.k cksyh rlsp Lihe o infopkj ;kaph ekfgrh fo|kF;kZauk >kyh-

SEMESTER-VI

Department of Marathi

Course Objectives and Outcomes

Compulsory Marathi

Unit I:

izdj.k & 6-mfn~"B&pØ ;k dFksrwu egkHkkjrkrhy nzkSinh ;k L=hps fp=.k fo|kF;kZauk ekfgr d#u ns.ks-

lk/;& egkHkkjrkrhy nzkSinhP;k eukrhy xw< oxqarkxqarhps Hkkouhd izlaxkph ekfgrh fo|kF;kZauk izkir >kyh-

izdj.k & 7-mfn~"B&i{khxku ikBkrwu i{;kaP;k lkSan;kZps n'kZu ?kMfo.ks--

lk/;&i{khxku e/kwu fofo/k{kh] i{;kaph ?kjVh] R;kaph fiYys ;kaph ekfgrh o vksG[k fo|kF;kZauk >kyh-

izdj.k & 8-mfn~"B&vUoj'kk Qdhj ;k eqLyhe O;DrheRokph vksG[k fo|kF;kZauk d:u ns.ks-

lk/;&ygku eqys] L=h;k] ek.kls o vktqcktwP;k xkokrhy turslkBh mi;qDr vls vUoj'kk Qdhjkps O;fDreRo vlY;kps fo|kF;kZauk dGwu vkys-

izdj.k &9-mfn~"B& nkHkksGdjkP;k va/kJ/nk fuewZyukps dk;kZph ekfgrh fo|kF;kZauk d#u ns.ks-

lk/;&oSKkfud n`F"Vdks.k o 'kkL=h; fopkj i/nrhus va/kJ/nk fuewZyu dj.;kps ?;s; nkHkksGdjkaps gksrs ;kph ekfgrh fo|kF;kZauk >kyh-

izdj.k &10-mfn~"B&efgyk xzkeiapk;rhP;k fuoMuwdhps fp=.k fo|kF;kZauk lkax.ks-

lk/;& xzkeh.k Hkkxkrhy xzkeiapk;r e/khy fuoM.kwdhph ekfgrh o ifjfLFkrhph tk.kho fo|kF;kZauk vkyh-

Unit II:

dfork & 6-mfn~"B& gh fuGh ika<jh dforsrhy 'kjn _rwrhy nqikjps o.kZu d#u ns.ks-

lk/;&bafnjk larkuh dsysyh 'kjn _rwrhy mUgkph ekfgrh fo|kF;kZauk izkIr >kyh-

dfork &7-mfn~"B& nksu T;ksrh ;krwu dfous o.kZu dsysY;k nksu T;ksrhpk my?kMk dj.ks -

lk/;&,d nq%[kkph T;ksr yky vlrs o nqljh nq%[kkph T;ksr dkGh vlwu rhps nq%[k dk;e fVd.kkjs vlrs ;kph tk.kho fo|kF;kZauk >kyh-

dfork & 8-mfn~"B&ikÅl dforsrwu L=h eukP;k fofo/k HkkokoLFkk fo|kF;kZauk my?kMwu nk[fo.ks -

lk/;&xzsl dohus js[kkVysys L=h osnusps Lo#i o L=h eukP;k Hkkouk ;kfo"k;h fo|kF;kZauk ekfgrh feGkyh-

dfork & 9-mfn~"B&isze dforsP;k vk/kkjs dfous js[kkVysys ihfMrkaps fp=u d#u tk.kho d:u ns.ks-

lk/;& ekuoh lektjpusr ek.kwli.k foljr pkyyk vlwu ihfMrkauk U;k; feGr ulY;kph lk{k fo|kF;kZauk iVyh-

dfork& 10-mfn~"B& Vkgkjk dforsrwu vkfnoklh lektkyk dlk iq<kjh gok ;kph ekfgrh fo|kF;kZauk ns.ks-

lk/;& dforsr o.kZu dsysyk vkfnokflapk iq<kjh dfoyk gok vlY;kph tk.kho fo|kF;kZauk >kyh-

Unit III:

izdj.k & 3-mfn~"B&xzaFkijh{k.k dls djkos o xzaFkokpu djrkuk dks.krs ?kVd c?kkosr ;kph ekfgrh fo|kF;kZauk dj.ks-

lk/;& xzaFkijh{k.k djrkuk ifj{k.kkph ighyh ik;jh xzaFkokpu gks; R;kuarj brj ckchaDMs y{; |kos ;kph ekfgrh fo|kF;kZauk izkIr >kyh-

izdj.k & 4-mfn~"B& baVjusV vkf.k ejkBh Hkk"kk o lkfgR; ;kph ekfgrh fo|kF;kZauk d#u ns.ks-

lk/;& lax.kd laokn]ejkBh ladsrLFkGs] baVjusVojhy ejkBh nSfuds] o ek;cksyh ;k ladsrLFkGkojhy ys[k] dfork] o brj ejkBh lkfgR;kph ekfgrh fo|kF;kZauk >kyh

Compulsory English Course

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 Outcomes

Course Objectives
The Students Will Be**:**

- 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.

Course Objectives
The Students Will Be Able**:**

- 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.

Department of Economics
Course Objectives and Outcomes

Unit -I: Economic Development and Growth

Objective- Develop the ability to explain core economic Sector of Economic Development and Growth
Outcomes – Students learn and accepted the Knowledge of Economic Development and Growth
Unit –II: Planning and Policy
Objective - Introduce the theory of Planning and Policy
Outcomes - Students will be learnt a theory of Planning and Policy
Unit -III: Public Finance
Objective- To develop preliminary knowledge of Public Finance
Outcomes – Students learnt preliminary knowledge of Public Finance
Unit –IV: International Trade
Objective- Explain the theory of International Trade
Outcomes –Students learn about the theory of International Trade.

Department of sociology
Course Objectives and Outcomes

Current Social Problems in India
Unit - I Education in Contemporary
Objective - To Make Students know in details about Education in Contemporary
Outcomes - Student Understood the concept of Education in Contemporary
Unit - II Displacement and Rehabilitation
Objective – To Make Students Aware of Displacement and Rehabilitation
Outcomes – Student Understood the concept of Displacement and Rehabilitation
Unit - III Intolerance, Riot Crime
Objective - To Make Students know in details about Intolerance, Riot Crime
Outcomes - Student Understood the concept of Intolerance, Riot Crime
Unit - IV Corruption
Objective - To Make Students Aware of Corruption
Outcomes -Student Understood the concept of Corruption

Department of History
Course Objectives and Outcomes

B.A.III (VI –Sem.) Modern World (1920 -1960) 1) What were Russia's sfive-year plans? 2) Hitler - Mussolini's foreign policy 3) Causes of World War II 4) United Nations and performance Suez Canal	➢ Co-1 Learned about Russia's Five Year Plan ➢ Co-2 Hitler - Mussolini's foreign policy in detail ➢ Co-3 Learned the reasons for the Second World War ➢ Co-4 Received information about the United Nations and the performance of the Suez Canal, NATO SEATO , Warsaw Pact

Department of Marathi
Course Objectives and Outcomes
Marathi Literature

Unit I:
Xk:M>si& Hkjr vka/kGs

mfn~"B x:M >si e/khy ys[kdkuh uksdjhlkBh /;s;osMk izokl dlk dsyk ;kph ekfgrh nsÅu fo|kF;kZauk izsjhr dj.ks-

lk/;& Hkjr vka/kGsP;k 'kS{kf.kd izxrhpk o Li/kkZ ijh{ksP;k dk;kZpk vk<kok ?ksÅu fo|kF;kZauh x#M>si vkRedFkukrwu isj.kk ?ksryh-

izkphu ejkBh okM~-e;kpk bfrgkl& y-jk- uf'kjkckndj-

mfn~"B& izkphu ejkBh okM~-e;kpk bfrgklkP;k vk/kkj larlkfgR;] iafMrh lkfgR;]'kkfgjh lkfgR;] c[kj okM~-e; ;k lkfgR;kph ekfgrh fo|kF;kZauk ns.ks

lk/;& larlkfgR;] iafMrh lkfgR;]'kkfgjh lkfgR;] c[kj okM~-e; ;k lkfgR;kph ekfgrh fo|kF;kZauk >kyh-

Hkk"kkfoKkukpk ifjp;- MkW- ekyls] MkW- dqGd.khZ

mfn~"B& Hkk"kkfoKkukpk ifjp; fo|kF;kZauk d:u ns.ks-

lk/;& ejkBh eqGk{kjs] Lou o Loukarjs ;kaph ekfgrh fo|kF;kZauk >kyh-

Department of commerce
Semester -I
Compulsory English

Course Outcomes
Students will be able -

CO1- To understand the meaning of Start-up through the prescribed Life Sketches of Start-up founders

CO2- To understand financial and business acumen through basic research skills for business

CO3- To understand and value inclusivity in human nature

CO4- To prioritize the importance of human life and wealth

CO5- To understand horror stories with elements of surprise and irony

CO6- To understand expansive and imaginative concepts

CO7- To understand the meanings of motivation and indomitable spirit

CO8- To take up tasks and not to worry about the end result for the larger benefit of Human kind

CO9- To understand that tranquil temperament is the most potent weapon one can have against diversity

CO10- To understand grammar and apply it in their writing skills

Department of Marathi

Course Objectives and out comes

Marathi : Program Outcomes

mfn'Vs%& 1- ejkBh Hkk"ksfo"k;h fon;kF;kZae/;s vfHk#ph fuekZ.k dj.ks-
2- lkfgR;ys[kukph o okpukph vkoM fuekZ.k dj.ks-
3- fon;kF;kZae/;s vlysaY;k lqIr dykaxq.kkauk oko nsÅu R;kaP;kr lkfgR;fo"k;d o`f/naxr dj.ks-
4- lkfgR;krwu ekuorkoknh n`f"Vdks.k #tfo.ks-
5- lkfgR;krwu lektkrhy iz"ukauk okpk QksMwu R;kaps fujkdj.k dj.ks-

/;s;%& 1- Hkkoh dkGkr fon;kF;kZae/kwu lkfgR;fufeZrh dj.ks-
2- v/;kiu o v/;;ukr fon;kF;kZauk lgHkkxh d#u laokn"khy

okrkoj.k fufeZrh dj.ks-

3- foHkkxkr fofo/k midzekaps vk;kstu d#u ejkBh Hkk'kspk ntkZ ok<fo.ks-

4- fon;kF;kZae/;s la"kks/kuo`Rrh o`f/naxr dj.ks-

5- ejkBh Hkk'ksph iz;ksx"kkGk fuekZ.k dj.ks-

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

CO1 Hkkjrh; yksd"kkghps ewY; fon;kF;kZae/;s #tfo.ks-

CO2 xzkeh.k tuftou o "ksrhfu'Bs"kh fon;kF;kZaph ukG tksG.ks-

CO3 larkP;k O;kogkjhd fopkjkapk ifjp; ?kMfo.ks-

CO4 "kkgw egkjktkP;k vkj{k.k fo'k;h fopkjkapk ifjp; ?kMfo.ks-

CO5 dkO;krhy jlxzg.k{kerk fodlhr dj.ks-

CO6 fon;kF;kZe/;s vk/kwfud ewY; #tfo.ks

CO7 fon;kF;kZe/;s lkekthd ckaf/kydh fuekZ.k dj.ks-

CO8 fon;kF;kZe/;s ltZu"khyrk fuekZ.k dj.ks-

Financial Accounting
Course Objectives and out comes

Unit No. I - Financial Accounting.

Objective- To Make The students to understand Financial Accounting. Meaning,
Objective - Principals & Problem.
Outcomes Students get well understood the following topics.
Financial Accounting. Meaning, Objective, Principals & Problem.
Unit No 2- Hire Purchase Account.
Objective - To Make The students to understand Hire Purchase Account Meaning, Method & Problems.
Outcomes Students get well 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 Final Account of Co-Operative Societies
Introduction, Type, Co-Operative Legislation and Problems
Outcomes Students get well 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 to understand Join Venture Accounts Meaning, Method and Problem.
Outcomes - Students get well understood the following topics
Join Venture Accounts Meaning, Method and Problems.

BUSINESS ORGANISATION

- To make the students to understand the concept, objective, importance of business.

- To acquaint the students with various forms of Business organisation and their functioning.

- To make the students understand the concept, fuctions of Organization and types of Organization.

- To make the students to understand Internal constituents of the Business Organization – Key managerial Personnel, Chairman, Chief executive officer, E-Commerce, E-business and E-banking.

Company Law

Course Objectives and out comes

Unit No. I - Background of New Company

Objective - To Make The students to understand Background of New Company Act 2013, Corporate Personality & Kinds of Company.

Outcomes - Students get well 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 to understand Memorandum of Association, Article of Association and Prospectus.

Unit No 3- Shares and Share Capital

Objective- To Make The students to understand Shares and Share Capital.

Outcomes- Students get well understood the following topics Shares and Share Capital.

Unit No 4- Membership in a company, Director.

Objective - To Make The students to understand Membership in a company, Director.

Outcomes- Students get well understood the following topics Membership in a company, Director.

Business Economics- I

Course Objectives and Outcomes

Unit I-

Nature and Scope of Business Economics:

Objective- To make the students to 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 to understand 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 to 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 Theory of Cost and Revenue.

Outcomes-Students get well understood Theory of Cost and Revenue.

Semester-II

Compulsory English

Course Objectives and Outcomes

Course Outcomes

Students will be able -

CO1- To understand the meaning of Start-up through the prescribed Life Sketches of Start-up founders

CO2- To understand financial and business acumen through basic research skills for business

CO3- To understand and value inclusivity in human nature

CO4- To prioritize the importance of human life and wealth

CO5- To understand horror stories with elements of surprise and irony

CO6- To understand expansive and imaginative concepts

CO7- To understand the meanings of motivation and indomitable spirit

CO8- To take up tasks and not to worry about the end result for the larger benefit of Human kind

CO9- To understand that tranquil temperament is the most potent weapon one can have against diversity

CO10- To understand grammar and apply it in their writing skills

Department of Marathi

Course Objectives and Outcomes

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

CO1 Hkkjrh; yksd"kkghps ewY; fon;kF;kZae/;s #tfo.ks-

CO2 xzkeh.k tuftou o "ksrhfu'Bs"kh fon;kF;kZaph ukG tksG.ks-

CO3 larkP;k O;kogkjhd fopkjkapk ifjp; ?kMfo.ks-

CO4 "kkgw egkjktkP;k vkj{k.k fo'k;h fopkjkapk ifjp; ?kMfo.ks-

CO5 dkO;krhy jlxzg.k{kerk fodlhr dj.ks-

CO6 fon;kF;kZe/;s vk/kwfud ewY; #tfo.ks

CO7 fon;kF;kZe/;s lkekthd ckaf/kydh fuekZ.k dj.ks-

CO8 fon;kF;kZe/;s ltZu"khyrk fuekZ.k dj.ks-

Statistics and Business Mathematics

Course Objectives and out comes

Unit No. I - Statistics & Measures of Central Tendency

Objective - To Make The students to understand Background of Statistics & Measures of Central Tendency.

Outcomes - Students get well understood the following topics. Statistics & Measures of Central Tendency.

Unit No 2- Dispersion.

Objective - To Make The students to understand Dispersion.

Outcomes - Students get well understood the following topics Dispersion.

Unit No 3- Skewness

Objective - To Make The students to understand Skewness.

Outcomes - Students get well understood the following topics Skewness.

Unit No 4- Business Mathematics

Objective- To Make The students to understand Business Mathematics.

Outcomes - Students get well understood the following topics

BUSINESS MANAGEMENT

-To make the students to 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 Co-ordination & Controlling.

-To expose the students for applicability of recent trends in management practices.

-To make students familiar with the modern management practices being used by the corporate world.

Secretarial Practice
Course Objectives and out comes

Unit No. I - Incorporation of Company

Objective - To Make The students to understand Incorporation of Company, Directors of Company.
Outcomes - Students get well 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 to understand Company Meeting, Company Agenda & Voting and Resolution.
Unit No 3- Report Writings, Secretarial audit & E-Governance and E-Filing
Objective - To Make The students to understand Report Writings, Secretarial audit & E-Governance and E-Filing.
Outcomes - 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 to understand Key Management Personnel, Appointment of Director & Management Remuneration.
Outcomes - Students get well understood the following topics Key Management Personnel, Appointment of Director & Management Remuneration.

Business Economics II
Course Objectives and Outcomes

Unit I-
Market Structure:
Objective- To make the students to understand the Market structure.
Outcomes-Students get well understood the Market Structure.
Unit II-
Perfect & Imperfect Competition Markets:
Objective- Students should be aware of Perfect & Imperfect Competition.
Outcomes-Students get well understood Perfect & Imperfect Competition.
Unit III-
Theories of Distributions
Objective- Students should be aware of Theory of Distribution.

Outcomes-Students get well understood & they apply their knowledge.
Unit IV-
Business cycles & National Income:
Objective- Students should be aware of Business cycles & National Income.
Outcomes-Students get well understood Business cycles & National Income.

Semester-III
Compulsory English
Course Objectives and Outcomes

Course Outcomes
Students will be able -

CO1- To understand and value inclusivity in human nature
CO2- To prioritize the importance of human life and wealth

CO3- To understand horror stories with elements of surprise and irony
CO4- To understand expansive and imaginative concepts
CO5- To understand the meanings of motivation and indomitable spirit
CO6 To take up tasks and not to worry about the end result for the larger benefit of Human kind
CO7- To understand that tranquil temperament is the most potent weapon one can have against diversity
CO9- To understand grammar and apply it in their writing skills

Department of Marathi
Course Objectives and Outcomes

By the end of this course, the students will be able to:
CO1 ekr`Hkk’ksph vkoM o tk.kho fuekZ.k dj.ks
CO2 izkfpu ejkBhps oSf”k’Vªs Li’V dj.ks-
CO3 fouksnh ys[kukr [ksGdjo`Rrhps n”kZu ?kMfo.ks-
CO4 lar lkfgR;krwu lkekftd] lkaLd`rhd] vk/;kfRed yksd”kkghpk iqjLdkj dj.ks-
CO5 L=h fo’k;d tkf.ko tkx`rh dj.ks-
CO6 o`Rr ys[ku o dYiuk foLrkj ra=kph ekfgrh voxr dj.ks-

Financial Accounting-II
Course Objectives and Outcomes

Unit I-
Consignment Accounts:
Objective- Students should aware topic of Consignment Accounts.
Outcomes-Students get well understood & Solve the Problems.
Unit II-
Hire Purchase:
Objective- Students should aware topic of Hire Purchase.
Outcomes-Students get well understood & solve the Problems.
Unit III-
Capital Structure & Issues of Shares.
Objective- Students should aware topic of Capital Structure & Issues of Shares.

Outcomes-Students get well understood & solve the Problems of Issues of Shares.
Unit IV-
Final Accounts of Joint Stock Companies
Objective- Students should aware topic of Final Accounts of Joint Stock Company.
Outcomes- Student get well understood & solve the problems.
Unit I-
Consignment Accounts:
Objective- Students should aware topic of Consignment Accounts.
Outcomes-Students get well understood & Solve the Problems.
Unit II-
Hire Purchase:
Objective- Students should aware topic of Hire Purchase.
Outcomes-Students get well understood & solve the Problems.
Unit III-
Capital Structure & Issues of Shares.
Objective- Students should aware topic of Capital Structure & Issues of Shares.
Outcomes-Students get well understood & solve the Problems of Issues of Shares.
Unit IV-
Final Accounts of Joint Stock Companies
Objective- Students should aware topic of Final Accounts of Joint Stock Company.
Outcomes- Student get well understood & solve the problems.

Business Communication & Management

Course Objectives and out comes

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

Objective - To Make The students to understand Meaning, Definition and concept of Communication, objective of Communication

Outcomes - To Make The students to understand Meaning, Definition and concept of Communication, objective of Communication

Unit No 2- Business Communication.

Objective - To Make The students to understand Business Communication.

Outcomes- To Make The students to understand Business Communication.

Unit No 3- Technology and Business Communication

Objective - To Make The students to understand Technology and Business Communication.

Outcomes- Students get well understood the following topics Technology and Business Communication.

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

Objective - To Make The students to understand M.S. Office Aided Communication.

Outcomes - Students get well understood the following topics M.S. Office Aided Communication.

Business Law

Course Objectives and out comes

-Student 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 to gain knowledge of various legal aspects of business.

- To make the students to understand laws that affect mercantile transactions.

- Students will be able to understand court interpretations on laws like, Prevention of Money Laundering Act-2002, Consumer Protection Act – 2002

Monetary Economics-I
Course Objectives and outcomes

Unit I-
Money:
Objective- To make the students to understand the concept of Evolution of Money & Functions of Money.
Outcomes-Students will be able to understand the concept of Evolution of Money & Functions of Money.
Unit II-
Inflation & Deflation:
Objective- To make the students to understand the concept of inflation and deflation.
Outcomes-Students will be able to develop their knowledge about inflation and deflation.
Unit III-
Money Market & Policies:
Objective- To make the students to understand the concept of Money Market and Monetary Policy
Outcomes-Students will be able to understand & they apply their knowledge.
Unit IV-
Public Finance:
Objective- To make the students to understand the concept of Public Finance

Outcomes-Students will be able to apply & develop the knowledge.

Semester-IV
Course Objectives and outcomes

Course Outcomes
Students will be able -
CO1- To understand and value inclusivity in human nature

CO2- To prioritize the importance of human life and wealth

CO3- To understand horror stories with elements of surprise and irony

CO4- To understand expansive and imaginative concepts

CO5- To understand the meanings of motivation and indomitable spirit

CO6- To take up tasks and not to worry about the end result for the larger benefit of Human kind

CO7- To understand grammar and apply it in their writing skills

Department of Marathi
Course Objectives and Outcomes

By the end of this course, the students will be able to:
CO1 ekr`Hkk’ksph vkoM o tk.kho fuekZ.k dj.ks
CO2 izkfpu ejkBhps oSf”k’Vªs Li’V dj.ks-
CO3 fouksnh ys[kukr [ksGdjo`Rrhps n”kZu ?kMfo.ks-
CO4 lar lkfgR;krwu lkekftd] lkaLd`rhd] vk/;kfRed yksd”kkghpk iqjLdkj dj.ks-

CO5 L=h fo’k;d tkf.ko tkx`rh dj.ks-
CO6 o`Rr ys[ku o dYiuk foLrkj ra=kph ekfgrh voxr dj.ks-

Financial Accounting III
Course Objectives and Outcomes

Unit I-
Final Accounts of Banking Companies.
Objective-Students should be aware of Final Accounts of Banking Companies.
Outcomes-Students get well understood and solve the Problems.
Unit II-
Final Accounts of General Insurance Companies.
Objective- Students should be aware the topic of Final Accounts of General Insurance Companies.
Outcomes-Student get well understood and solve the Problems.
Unit III-
Valuation of Goodwill:
Objective- Students should be aware the topic of Valuation of Goodwill.
Outcomes-Student get well understood and solve the Problems.
Unit IV-
Liquidation of Company:
Objective- Students should be aware of Liquidation of Company.
Outcomes-Student get well understood & solve the Problems.

Skill Development
Course Objectives and out comes

Unit No. I - Introduction- Basic Personality, Human Growth and Behavior and Motivation.
Objective - To Make The students to understand Introduction- Basic Personality, Human Growth and Behavior and Motivation.
Outcomes - To Make The students to understand Introduction- Basic Personality, Human Growth and Behavior and Motivation.
Unit No 2- Communication Skill and Personality Development.
Objective - To Make The students to understand Communication Skill and Personality Development.
Outcomes - To Make The students to understand Communication Skill and Personality Development.
Unit No 3- Techniques in personality Development.
Objective - To Make The students to understand Techniques in personality Development.
Outcomes - Students get well understood the following topics Techniques in personality Development.
Unit No 4- Entrepreneurial Skill Development.
Objective - To Make The students to understand Entrepreneurial Skill Development.
Outcomes- Students get well understood the following topics Entrepreneurial Skill Development.

Income tax
Course Objectives and out comes

-To make the students to understand the basic concepts involved in Income tax act an also the basics of income tax.
- To make the students to understand the Taxable Salary and tax liability.
- Students get an exposure to provisions of taxation of house property.
- To make the students to 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 an 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 outcomes

Unit I-
Commercial Banking:
Objective- To make the students to understand the concept of Commercial Banking & its functions
Outcomes-Students will be able to develop their knowledge
Unit II-
Banking and Core Banking:
Objective- To make the students to understand Banking and Core Banking
Outcomes-Students will be able to develop their knowledge & apply their knowledge
Unit III-
Banks and Customers Relationship and Services:
Objective- To make the students to understand the banks and customers relationship and services.
Outcomes-Students will be able to understand & they apply their knowledge.
Unit IV-
Central Bank:
Objective- To make the students to understand the concept of Central Bank & its functions.
Outcomes-Students will be able to develop the knowledge about Central Bank.

Semester-V
Financial Accounting-IV
Course Objectives and out comes

Unit No. I - Amalgamations & Absorption of Companies.
Objective - To Make The students to understand Amalgamations & Absorption
Outcomes - Students get well understood the following topics. Amalgamations &Absorption
Unit No 2- Reorganization & reconstruction of Companies.
Objective - To Make The students to understand Reorganization & reconstruction problem.
Outcomes - Students get well understood the following topics Reorganization & reconstruction problem.
Unit No 3- Valuation of Shares
Objective - To Make The students to understand Valuation of Shares Problems.
Outcomes- Students get well understood the following topics Valuation of Shares Problems.
Unit No 4- Double Account system
Objective - To Make The students to understand Double Account system
Outcomes - Students get well understood the following topics Double Account system.

Management Process
Course Objectives and out comes

Unit I-
Management and Administration:
Objective- To make the students to understand meaning and difference of Management and Administration.
Outcomes-Students will be able to apply the knowledge of Management and Administration.

Unit II-
Managerial Development & Group Dynamics:
Objective- To make the students to understand the Managerial Development & Group Dynamics
Outcomes-Students will be able to create the knowledge of Managerial Development & Group Dynamics
Unit III-
Managerial Style:
Objective- To make the students to understand the Managerial Style.
Outcomes-Students will be able to develop the knowledge of Managerial Style.
Unit IV-
Motivation:
Objective- To make the students to understand the Motivation.
Outcomes- Students will be able to understand the meaning of Motivation and their types.

Indian Economics
Course Objectives and out comes

Unit I-
Indian Economy& Planning:
Objective- To make the students to 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 to understand the Indian Economy & Policy.
Outcomes-Students will be able to understand Indian Economy & Policy.
Unit III-
Papulation & Unemployment:
Objective- To make the students to 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 to understand the Public Revenue and Public Expenditure.
Outcomes-Students will be able to understand the Public Revenue and Public Expenditure.

Computerize Accounting
Course Objectives and out comes

Objective - To Make The students to understand Introduction of Computerize Accounting, Advantage, Need and Accounting Groups.
Outcomes - Students get well understood the following topics.
Introduction of Computerize Accounting, Advantage, Need and Accounting Groups

Unit No 2- Accounting Software's.
Objective - To Make The students to understand Accounting Software's.
Outcomes - Students get well understood the following topics
Accounting Software's.
Unit No 3- Accounts Info Menu, Accounts Groups.
Objective - To Make The students to understand Accounts Info Menu, Accounts Groups-
Create Group, Ledger Accounts, Voucher & Features of Account Voucher.
Outcomes - Students get well 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 to understand Inventory Info, Features of Inventory Info. Configure.
Outcomes - Students get well understood the following topics
Inventory Info, Features of Inventory Info. Configure.

Auditing

Course Objectives and out comes

-Students learn 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.
- Learners learn Audit Planning and Audit Documentation and Evidence.
- To make the students to understand standard on Auditing, Vouching & Verification Vouching, Verification of Assets and Liabilities.
- A glimpse into company audit gives an idea of appointing a company auditor, and the Procedure of audit in a company etc. along with the rules of company and corporate audit.

Semester-VI

Financial Accounting-V

Course Objectives and out comes

Unit No. I - Accounting of Holding Company.
Objective - To Make The students to understand Accounting of Holding Company
Outcomes - Students get well understood the following topics Accounting of Holding Company
Unit No. 2 - Insurance Claims.
Objective - To Make The students to understand Insurance Claims
Outcomes - Students get well understood the following topics Insurance Claims
Unit No. 3 - Investment Accounts.
Objective - To Make The students to understand Investment Accounts
Outcomes - Students get well understood the following topics Investment Accounts
Unit No. 4 - Profit Prior to Incorporation.
Objective - To Make The students to understand Profit Prior to Incorporation.
Outcomes - Students get well understood the following topics Profit Prior to Incorporation.

Management Accounting

Course Objectives and out comes

-To make the students to get a clear idea about the concept, objectives, importance and benefits of management accounting along with the basic advantages and significance of various techniques of management accounting and Break-Even Poing Analysis.

- A good idea of preparing various budgets like cash budget, flexible budgets and capital budgets help in drafting budget and budget control measures in organisations.

- 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 to understand and get clear idea of Fund Flow Statement.

Advanced Statistics
Course Objectives and out comes

Objective - To Make The students to understand Accounting of Correlation
Outcomes - Students get well understood the following topics. Correlation Company
Unit No. 2 - Regression.
Objective- To Make The students to understand Regression
Outcomes - Students get well understood the following topics Regression
Unit No. 3 - Index Number.
Objective - To Make The students to understand Index Number
Outcomes - Students get well understood the following topics Index Number
Unit No. 4 - Time Series Analysis.
Objective - To Make The students to understand Time Series Analysis.
Outcomes- Students get well understood the following topics Time Series Analysis.

Indian Economics-II
Course Objectives and out comes

Unit I-
Indian Agriculture
Objective- To make the students to understand the Indian Agriculture.
Outcomes-Students will be able to understand the Indian Agriculture
Unit II-Indian Industry
objective - To make the students to understand the Indian Industry. Outcomes-Students will be able to understand the Indian Industry
Unit III-
Indian service sector and International Trade:
Objective- To make the students to understand the Indian service sector and International Trade.
Outcomes-Students will be able to understand the Indian service sector and International
Unit IV-
Contribution of Indian Economic Thinkers:
Objective- To make the students to understand the Contribution of Indian Economic Thinkers (Mahatma Gandhi, Pandit Dindayal Upadhyaya, B. R. Ambedkar, Dr. Ram Manohar Lohiya)
Outcomes-Students will be able to understand the contribution of Indian Economic Thinkers.

Human Resource Management
Course Objectives and out comes

Unit I-
Introduction:

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

Outcomes-Students will be able to understand the concept of Human Resources Management & Human Resource Manager.

Unit II-
Recruitment, selection and training:
Objective- To make the students to understand the Recruitment, selection and training
Outcomes-Students will be able to understand the Recruitment, selection and training
Unit III-
Labour welfare and collective bargaining:
Objective- To make the students to understand the Labour welfare and collective bargaining.
Outcomes-Students will be able to understand the Labour welfare and collective bargaining.
Unit IV-
Human Resource Planning and Accounting:
Objective- To make the students to understand the Human Resource Planning and Accounting.
Outcomes-Students will be able to understand the Human Resource Planning and Accounting.

Industrial Law

Course Objectives and out comes

- 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.

Department of science (B.Sc.)
Semester-I
Department of English
Compulsory English

Course Objectives and Outcomes

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

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

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

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

Wisdom.

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

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

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

Outcome-Students attempted to write and comprehend the passage.

Department of Marathi
Course Objectives and Outcomes

Program Outcomes

mfn'Vs%& 1- ejkBh Hkk"ksfo"k;h fon;kF;kZae/;s vfHk#ph fuekZ.k dj.ks-

2- lkfgR;ys[kukph o okpukph vkoM fuekZ.k dj.ks-

3- fon;kF;kZae/;s vlysaY;k lqIr dykaxq.kkauk oko nsÅu R;kaP;kr lkfgR;fo"k;d o`f/naxr dj.ks-

4- lkfgR;krwu ekuorkoknh n`f"Vdks.k #tfo.ks-

5- lkfgR;krwu lektkrhy iz"ukauk okpk QksMwu R;kaps fujkdj.k dj.ks-

/;s;%& 1- Hkkoh dkGkr fon;kF;kZae/kwu lkfgR;fufeZrh dj.ks-

2- v/;kiu o v/;;ukr fon;kF;kZauk lgHkkxh d#u laokn"khy okrkoj.k fufeZrh dj.ks-

3- foHkkxkr fofo/k midzekaps vk;kstu d#u ejkBh Hkk'kspk ntkZ ok<fo.ks-

4- fon;kF;kZae/;s la"kks/kuo`Rrh o`f/naxr dj.ks-

5- ejkBh Hkk'ksph iz;ksx"kkGk fuekZ.k dj.ks-

Course Outcomes

lkfgR; lsrw

CO1 fon;kF;kZaue/;s lkfgR; fo"k;d vkoM fuekZ.k dj.ks
CO2 okpu laLd~rhpk iqjLdkj dj.ks
CO3 Hkkjrh; lafo/kkukps egRo letkowu lkax.ks
CO4ekuoh eqY;kaph ti.kwd dj.ks
CO5 dfork ya[kukps ra= voxr dj.ks
CO6 i;kZoj.k fo"k;d tkx~rh fuekZ.k dj.ks
CO7 O;kogkjhd ejkBhps egRo letkowu lkax.ks

Department of Chemistry
Program 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.

Program Specific Outcome (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 technique used in purification of compounds

Program Outcomes (Po)

- 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 Name	Outcome
FY Paper-I	**101.1**	• To understand the basic structure of atom. • Understand shape of orbitals.

Inorganic Chemistry (101)		• Understand periodic properties such as atomic and ionic radii, ionization energy, electron affinity etc.
	101.2	• 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 catalytic property, like Adsorption mechanism of adsorption, factor affecting adsorption. Difference between adsorption and absorption, etc. • Understand types of catalysis and enzymes.

F.Y. Chemistry Practical Course	**103**	• Verify theoretical principles experimentally • Interpret the experimental data • Improve analytical skills • Correlate the theory and experiments and understand their importance

Department of Physics

Program 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.

Program 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.

Program Outcomes (Po)

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

Course Outcomes (COs)

Course Name: B. Sc.
Year/Semester: First/First

Subject: Physics

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

Paper	CO	Description
Paper 1: Properties of Matter and Mechanics **(101)**	**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
	101.2	• 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 fields & Electric Currents **(102)**	**102.1**	• Understand the concept of Electrostatic force, Electric field, Electric potential, Electric dipole, Electric dipole moment.
	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)**	**103**	• Apply and demonstrate the theoretical concepts of Physics and to develop scientific attitude. • Interpret the experimental data

Department of Mathematics

Program 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 students build-up a successful career in Mathematics

Program Specific Outcome (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

Program Outcome (PO): 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 the 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 other subject.

COURSE OUTCOMES (COs)

Course Name: B. Sc.
Year/Semester: First/First
Subject: Mathematics
After successful completion of three-year degree program in **Mathematics** a student should be able to;

Paper	CO Name	Outcome
FY Paper-I Algebra and Trigonometry 101	**101.1**	Understand the basic concept related to Matrices and solve the problem based on system of Linear equations
	101.2	Understand the general properties of equations and Solutions of Different equations
	101.3	Understand the basics of complex numbers and solve the problems
	101.4	understand Group theory and general properties
FY Paper-II 102 Calculus	**102.1**	Using Definition, verify the values of limit and continuity and solve the problem on Differentiation
	102.2	Understand the concept of Maclaurins and Taylors 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

s **Department of Zoology**

PROGRAM 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.

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

s	**PROGRAM 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

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

		reproductive system and life cycle, *Taenia solium* : Structure and life cycle, Elementary idea of parasitic adaptations in helminthes
	101.4	To Understand the Annelida : General characters and classification up to classes, Leech : Morphology, digestive and urinogenital system, Trochophore larva and its significance, Vermiculture and its importance
FY Paper-II Environmental Biology **(102)**	**102.1**	To understand the Atmosphere: Major zones and its importance, composition of air, Hydrosphere: Global distribution of water, Physico-chemical characteristics of water, Lithosphere: Types of rocks, formation of soil, Renewable and non- renewable energy sources
	102.2	Understand the Ecosystem - Definition and types, Detailed study of pond ecosystem, Food chain, food web and ecological pyramids, Energy flow in an ecosystem, Single channel, Y – shape and Universal model
	102.3	To understand the Biodiversity and its conservation, Causes of reduction of biodiversity, Wildlife conservation acts (1972 and 1984), Introductory study of national parks and sanctuaries – Tadoba, Kanha, Bharatpur and Nagzira, Hot spots of biodiversity in India
	102.4	To understand the Sources, effect and control measures of air pollution, Acid rain, green house effect, ozone depletion and global warming, Sources, effect and control measures of water pollution, Sources effect and control measures of noise pollution, Toxic effect of heavy metals (lead, cadmium and mercury) – Bioaccumulation and biomagnification
F.Y. Zoology Practical Course	**103**	• Verify theoretical principles experimentally • Interpret the experimental data • Improve analytical skills • Correlate the theory and experiments and understand their importance

Department of Botany

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

PO1. Understanding of Plant Diversity and its importance in the maintenance of ecological balance.
PO2. Students learn to carry out practical work, in the field and in the laboratory, interpreting plantmorphology and anatomy, Plant identification, Vegetation analysis

techniques.
PO3. **A**pply the knowledge of basic science, life sciences and fundamental process of plants.
PO4. Apply modern techniques and instruments for Biochemical estimation, Molecular Biology, Biotechnology, Plant Tissue culture experiments, cellular and physiological studies of plants with an understanding of the applications in human life.

PO5. Apply the knowledge gained from the studies for the upliftment of society via addressinghealth, environmental issues, food scarcity etc.
PROGRAM EDUCATIONAL OBJECTIVES (PEOs)
PSO1. Critical evaluation of ideas and arguments by collecting relevant information about the plants,so as to recognize their position in the classification systems and at phylogenetic level.
PSO2. Students will be able to access the primary literature, identify relevant works for a particulartopic, and evaluate the scientific content of these works
PSO3. Students will be able to compare and contrast the characteristics of the different groups ofplants 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 ofevolution offers the only scientific explanation for the unity and diversity of life on earth.
PSO5. Students will be able to explain how Plants function at gene, genome, cellular and tissue level,
PSO6. Students will be will be able to relate the physical features of the environment to the structureof populations, communities, and ecosystems.
PSO7. Students will be able to conceive the idea of artificial propagation of plants via vegetativemethods and to find a livelihood via establishing miniature plant nurseries

Course Name: B. Sc.
Year/Semester: First/First
Subject: Botany
After the successful completion of the course students will be able to-

Paper	CO Name	Outcome
FY Paper-I Viruses, Prokaryotes, Algae And Biofertilizers (101)	**101.1**	• To understand the nature of viruses, Ultra-structure and economic importance. • Understand the properties of Mycoplasma and its reproduction. • Understand general characteristics and reproduction in bacteria.
	101.2	• To understand general characteristics and classification of algae • To understand the to understand general structure of Cyanobacteria and its reproduction.
	101.3	• Understand life cycle *of Chara, Vaucheria ,Ectocarpus, and Batrachospermum.*
	101.4	• To understand Scope and importance of Biofertilizers.

		• Understand the microbes used in biofertilizers.
FY Paper-II Fungi, Plant Pathology,Lichens, Bryophyta and Mushroom Cultivation (102)	**102.1**	• Understand the Characteristics of fungi. • Understand the reproduction and life cycle of *Albugo, Mucor ,Puccinia and Cercospora.*
	102.2	• Pathogen study, control and causes of diseases : leaf curl of papaya, Citrus canker and red rot of sugarcane
	102.3	• Understand classification and general characteristics of Bryophyta. • Life history of *Marchantia, Anthoceros and Funaria* • To Study the nutritional and medicinal values of edible and non-edible mushrooms. Technology of mushroom cultivation
	102.4	• .
F.Y. Chemistry Practical Course	**103**	• Study the fungal genera. • Study the lichens, thallus structure and types of lichens. • Plant pathological study. • Study of bryophytes and identification of its characteristics. • Preparation of mushroom beds.

Semester II
Department of English
Course Objectives and Outcomes
Compulsory English

Unit I: Objective-Making students conscious about innovations, life style, dignity and Courage.
Outcome-Students tried to understand the importance of innovations, life style, and dignity and courage.

Unit II: Objective- Making students understand about loss and opportunity, relation between
Science and spiritual .
Outcome-Students tried to understand about loss and opportunity, relation between Science and spiritual and their importance in life.

Unit III: Objective-To make students understand the real meaning of proverb ‘All the glitters is
not gold’, to give sanity in our life and dignity and safety of life.
Outcome-Students tried to understood the real meaning of proverb ‘All the glitters is
not gold’, to give sanity in our life and dignity and safety of life.

Unit IV: Objective-To create the ability of writing Curriculum Vitae and paragraph.
Outcome-Students attempted to write the Curriculum Vitae and paragraph

Department of Marathi
Course Objectives and Outcomes

Program Outcomes

mfn’Vs%& 1- ejkBh Hkk"ksfo"k;h fon;kF;kZae/;s vfHk#ph fuekZ.k dj.ks-

2- lkfgR;ys[kukph o okpukph vkoM fuekZ.k dj.ks-

3- fon;kF;kZae/;s vlysaY;k lqIr dykaxq.kkauk oko nsÅu R;kaP;kr lkfgR;fo"k;d o`f/naxr dj.ks-

4- lkfgR;krwu ekuorkoknh n`f"Vdks.k #tfo.ks-

5- lkfgR;krwu lektkrhy iz”ukauk okpk QksMwu R;kaps fujkdj.k dj.ks-

Course Outcomes

lkfgR; lsrw

/;s;%& 1- Hkkoh dkGkr fon;kF;kZae/kwu lkfgR;fufeZrh dj.ks-

2- v/;kiu o v/;;ukr fon;kF;kZauk lgHkkxh d#u laokn”khy okrkoj.k fufeZrh dj.ks-

3- foHkkxkr fofo/k midzekaps vk;kstu d#u ejkBh Hkk’kspk ntkZ ok<fo.ks-

4- fon;kF;kZae/;s la”kks/kuo`Rrh o`f/naxr dj.ks-

5- ejkBh Hkk’ksph iz;ksx”kkGk fuekZ.k dj.ks-

Department of Chemistry
Course Outcomes (Cos)

Course Name: B. Sc.
Year/Semester: First/ Second
Subject: Chemistry
After the successful completion of the course students will be able to-

Paper	CO Name	Outcome
FY Paper -I Organic Chemistry (201)	**201.1**	• To make student understand different organic compounds and the concept structure and bonding in organic compounds. • Understand 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.
F.Y. Pape-II Physical Chemistry (202)	**202.1**	• 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	Description
Paper 1: Oscillations, Kinetic theory of gases and Thermodynamics **(201)**	**201.1**	• To understand the concept of linear and angular S.H.M., Damped harmonic oscillator
	201.2	• To understand the concept of Forced oscillation with one degree of freedom and kinetic theory of gasses.
	201.3	• To understand the Transport phenomenon in gases, 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: Gravitation, Astrophysics, Magnetism and Magnetostatics (**202)**	**202.1**	• To understand Newton's laws of gravitation and the concept of Gravitational self-energy of the galaxy
	202.2	• Know the constituents of universe (Solar system, Stars, Galaxies) and some physical aspects of universe
	202.3	• To understand the concepts of Dimagnetism, 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)**	**203**	• Apply and demonstrate the theoretical concepts of Physics and to develop scientific attitude.

Department of Mathematics
Course Outcomes (COs)

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

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

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

Department of Zoology
Course Outcomes (COs)

Course Name: B. Sc.
Year/Semester: First/Second
Subject: Zoology
After the successful completion of the course students will be able to-

Paper	**CO Name**	**Outcome**
FY Paper -I	**201.1**	To understand the, Arthropoda : General characters and classification up to classes, Cockroach : Mouth

Life and Diversity of Animals – Nonchordates (Arthropoda to Hemichordata) **(201)**		parts, digestive system and reproductive system, Insects as Vectors : Mosquito, Housefly, Sandfly, Tse-Tse fly, Study of crustacean larvae : Nauplius, Zoea and Megalopa; Social behavior in honey bees
	201.2	To understand the Mollusca : General characters and classification up to classes, *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 features and digestive system, Water vascular system and locomotion in Starfish, Echinoderm larvae : Bipinnaria and Auricularia
	201.4	To understand Hemichordata : General characters and phylogeny, *Balanoglossus* : External features and digestive system, Reproduction in *Balanoglossus* , Tornaria larva, Affinities of *Balanoglossus*
F.Y. Paper-II Cell Biology **(202)**	**202.1**	To understand Ultrastructure of prokaryotic and eukaryotic cell, Plasma membrane: Structure- Fluid Mosaic Model and functions, Endoplasmic reticulum: Types, ultrastructure and functions, Golgi complex: Ultrastructure and functions
	202.2	To understand Ultrastructure of mitochondria, Oxidative phosphorylation – Glycolysis and Kreb's cycle, Electron Transport Chain and terminal oxidation, Lysosome: Structure, polymorphism and functions
	202.3	To understand the Nucleus: Ultrastructure of nuclear membrane, Structure and functions of nucleolus, Chromosome: Structure and types, structure of nucleosome, Giant chromosomes: Lamp-brush and polytene chromosome
	202.4	To understand the Ribosome: Structure, types, Lake's model and functions, Somatic cell division: Cell cycle and Mitosis, Meiosis (different phases and significance), synaptonemal complex, Cellular ageing and cell death, Elementary idea of cancer and its causative agents
F.Y. Zoology Practical course	**203**	• Verify theoretical principles experimentally • Interpret the experimental data • Improve analytical skills • Correlate the theory and experiments and understand their importance

Department of Botany
Course Outcomes (COs)

Course Name: B. Sc.
Year/Semester: First/Second
Subject: Botany
After the successful completion of the course students will be able to-

Paper	CO Name	Outcome
FY Paper -I Paleobotany, Pteridophytes, Gymnosperms and Soil Analysis (201)	**201.1**	• To make student understand fossils, Pseudofossils, and its importance. • Knowledge about types of fossils. • Details of Geological time scale. • Differentiation among the types of fossil.
	201.2	• Study the general characteristics of Pteridophytes and its classification. • Life history of *Selaginaella.* And *Equisetum.*
	201.3	• Classify the Gymnosperms, its characteristics and economic importance. • Understand the fossil gymnosperm. • Study the life cycle of *Cycas* and *Pinus*
	201.4	• Skill development and soil analysis. • Identification of types of soil on the basis of its color and texure. • Study the physical properties of soil. • Understand the pH of soil and nitrogen availability in it.
F.Y. Pape-II Morphology of Angiosperms and Floriculture (202)	**202.1**	• Study the morphological characteristics of plants. • Identification of morphological characters of plants. • Study the modification occure in root, stem and leaf.
	202.2	• Study the reproductive morphology. • Study the types of inflorescence. • Study the calyx, corolla and Androecium.
	202.3	• Understand the structure of gynoecium. • Study the fruit and its types.
	202.4	• Develop the skills of floriculture and cultivation • Method of cultivation.
F.Y. Botany Practical course	**203**	• Study of different root and stem modification and branching patterns. • Study the types of leaf and its phyllotaxy, venation and modification. • Understand the flower structure and position of calyx, corolla, androecim and gynoecium.

Semester-III
Department of Chemistry
COURSE OUTCOMES (COs)

Course Name: B. Sc.
Year/Semester: Second/Third
Subject: Chemistry
After the successful completion of the course students will be able to-

Paper	CO Name	Outcome
S.Y Paper-I Inorganic Chemistry (301)	**301.1**	• Understand the concept of molecular orbital theory and VSEPR theory.
	301.2	• Understand the properties of d and f block 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 serious.
S.Y. Paper-II Organic Chemistry (302)	**302.1**	• Understand the structure and chemical bonding in aryl, alkyl halides, aldehydes.
	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
After the successful completion of the course students will be able to-

Paper	CO	Description
Paper 1: Sound Waves, Applied Acoustic, Ultrasonic and Power Supply (**301)**	**301.1**	• Understand the concept of group and phase velocities, formation of standing waves and diagrammatic introduction of human ear and its responses.
	301.2	• Understand the working of transducers and their characteristics and the concept acoustic and its applications.
	301.3	• Understand the production and applications of ultrasonic waves.
	301.4	• Understand the concept of voltage regulation and working of half, full and bridge rectifier.

Paper 2: Physical Optics and Electromagnetic Waves (**302)**	**302.1**	• Understand the concept of interference of light through thin film • Apply the concept of interference of light through thin film in wavelength determination.
	302.2	• 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 theorem.
Physics Practical **(303)**	**303**	• Apply and demonstrate the theoretical concepts of Physics and to develop scientific attitude.

Department of Mathematics
Course Outcomes (COs)

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

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

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

Department of Zoology
Course Outcomes (COs)

Course Name: B. Sc.
Year/Semester: Second/Third
Subject: Zoology
After the successful completion of the course students will be able to-

Paper	**CO Name**	**Outcome**
S.Y Paper-I	**301.1**	Understand the Protochordata : General characters and classification up to order, *Herdmania* : Structure, digestive system, ascidian tadpole and retrogressive metamorphosis, *Amphioxus* : Structure,

Life and Diversity of Animals - Chordates (Protochordata to Amphibia) **(301)**		digestive system, circulatory system, sense organs and protonephridia, Agnatha : General characters of Cyclostomata (*Petromyzon* and *Myxine*)
	301.2	Understand the Pisces : Salient features of Chondrichthyes and Osteichthyes, Origin of paired fins in fishes, Migration and Accessory respiratory organs in fishes, Amphibia : General characters and classification up to order, Parental care and Neotony in Amphibia
	301.3	Understand the Gametogenesis and type of eggs, Fertilization of egg, Post fertilization development of fish, Types of scales of fishes, Development of placoid scales
	301.4	Understand the Frog Embryology - Cleavage , blastulation and gastrulation, Fate map, Morphogenetic movements in gastrula of frog, Development of respiratory organs in frog, Development of Aortic arches of frog
S.Y. Paper-II Organic Zoology (302)	**302.1**	Understand the Mendelian Principles- Dominant recessive relationships, Mendelian laws, Interaction of genes- Epistasis - dominant and recessive, codominance, incomplete dominance, Quantitative genetics – Polygenic traits, inbreeding and outbreeding, hybrid vigor, Extracellular genome – Presence and functions of mitochondrial DNA, plasmids
	302.2	Understand the concept of Cytoplasmic inheritance- *Kappa* particles in *Paramecium*, CO2 sensitivity in *Drosophila*, milk factor in mice, Linkage and crossing over – Basic concepts of linkage, types and theories, Concepts of genes – Cistron , muton and recon, Genetic disorders in human beings – Haemoglobin disorders – Thalassemia and Sickle cell anemia. Metabolic disorder: Phenylketonurea
	302.3	Understand the concept of Sex determination – ZZ, XY, XO, ZW pattern, Sex determination in *Drosiphila* – Genic balance theory, 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, karyotyping
S.Y. Zoology 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 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 Name	Outcome
S.Y Paper-I Botany (301)	**301.1**	• Understand the study of angiosperms, Fossil angiosperms, Angiosperms taxonomy. • Understand the nomenclature. • Study the trends in taxonomy.
	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. Paper-II Angiosperm anatomy and Horticulture (302)	**302.1**	• Understand anatomical features of plants and its organs. • Study the tissue its types and functions.
	302.2	• Study the primary and secondary growth I stem and root.
	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 propagation. • Learn the technique of bonsai preparation.
S.Y. Botany Practical Course	**303**	• Study the simplest and complex tissue from permanent micro-preparation. • Identification of types of vascular bundle. • Anatomy of Dicot and Monocot stem with temporary or double stained. • Study the internal structure of dicot and monocot leaf.

SEMESTER IV
Department of Chemistry
Course Outcomes (COs)

Course Name: B. Sc.
Year/Semester: Second/Fourth
Subject: Chemistry

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

Paper	CO Name	Outcome
S.Y. Paper-I Inorganic Chemistry	**401.1**	• Understand the properties of coordination compounds. Chelates: classification and their application and valance bond theory of complexes.

(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)	**402.1**	• Understand solid state and their classification and their laws. • To understand the concept of determination of crystal structure.
	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**	• Verify theoretical principles experimentally • Interpret the experimental data • Improve analytical skills • Correlate the theory and experiments and understand their importance

Department of Physics
Course Outcomes (COs)

Course Name: B. Sc.
Year/Semester: Second/Fourth
Subject: Physics
After the successful completion of the course students will be able to-

Paper	CO	Description
Paper 1: Solid State Physics, X-ray and Laser **(401)**	**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.
	401.2	• 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 Electronics, and Molecular Physics (**402)**	**402.1**	• Understand the construction and working and characteristics of various solid state devices.
	402.2	• Understand the construction and working and characteristics of various FETs.
	402.3	• Understand the concept molecular physics.
	402.4	• Understand and apply the Raman spectroscopy.
Physics Practical **(403)**	**403**	• Apply and demonstrate the theoretical concepts of Physics and to develop scientific attitude.

Department of Mathematics
Course Outcomes (COs)

Course Name: B. Sc.
Year/Semester: Second/Fourth
Subject: Mathematics

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

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

Department of Zoology
Course Outcomes (COs)

Course Name: B. Sc.
Year/Semester: Second/Fourth
Subject: Zoology

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

Paper	**CO Name**	**Outcome**

S.Y. **Paper-I** Life and Diversity of Animals – Chordates (Reptilia, Aves and Mammals) **(401)**	**401.1**	Understand the Reptilia- Classification based on temporal vacuities, Poison apparatus, biting mechanism , snake venom and its importance, Aves – Comparison of Ratitae and Caranitae, Flight adaptations and migration, Mammals – General characters of Prototheria, Metatheria and Eutheria
	401.2	Understand the Modern theories of evolution : Darwinism and Neo-Darwinism, Adaptations – Cursorial, Aquatic, Terrestrial, Fossorial and Volant, Introduction to genetic basis of evolution – Species Deme, Variation, Races in Man (Caucasoid, Negroid, Mongoloid and Australoid)
	401.3	Understand the Comparative account of aortic arches and heart in Reptiles, Birds and Mammals, Structure of hen's egg, Development of chick up to 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, Development of Aortic arches of frog
S.Y. **Paper-II** Molecular Biology and Immunology **(402)**	**402.1**	Understand the DNA: Structure of DNA, forms of DNA, properties of DNA, DNA as a genetic material, RNA: Structure of RNA, types of RNA, RNA as a genetic material, Prokaryotic and eukaryotic gene structure, Recombination in Bacteria: Bacterial transformation – Griffith's experiment, Conjugation in bacteria, transduction
	402.2	Understand the concept DNA replication: Semiconservative model, Meselson Stahl experiments. Process of replication – origin of replication, concept of replication, directionality of replication, Genetic code: Characteristics of genetic code, Wobble hypothesis, Protein synthesis: Transcription mechanism – Initiation , elongation and termination of transcription. Translation – activation of amino acids, transfer of activated amino acids to tRNA, Initiation, elongation and termination of polypeptide chain; inhibitors of protein synthesis, Gene regulation models - Lac operon and tryptophan operon
	402.3	Understand the Concepts of immunity – Innate and acquired immunity, organs of the immune system, Antigen - Structure, diversity, functions and types of antigen, Antibody- Structure, types and functions, Antigen-antibody interaction – Precipitation and agglutination
	402.4	Understand the Types of immune response: B cell response (antibody mediated), T cell response (cell mediated), Complement system: Basic concepts of complement cascades, classical, alternative and MBL pathways, implications of complement system in immune defense, Cytokines- General account on cytokines, Cytokine related diseases, Autoimmunity and

		immunodeficiencies- Autoimmune diseases and their treatment, AIDS and other immunodeficiencies
S.Y. Zoology practical Course	**403**	• Verify theoretical principles experimentally • Interpret the experimental data • Improve analytical skills • Correlate the theory and experiments and understand their importance

Department of Botany
Course Outcomes (COs)

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

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

Paper	CO Name	Outcome
S.Y. Paper-I Cell biology, Plant Breeding, Evolution, and Technology (401)	**401.1**	• Understand the brief account of cell theory. Comparison between eukaryotic and prokaryotic cell. • Structure and function of cell wall, Endoplasmic reticulum, Golgi complex, plasma membrane, Ribosome and Vacuole.
	401.2	• Understand the structure and functions of chloroplast, Mitochondria and Nucleus. • Understand the chromosome morphology, Molecular organization of chromosomes. • Understand the sex chromosomes and cell division process.
	401.3	• Understand plant breeding, methods of plant breeding. • Understand the biostatistics and determine the Mean, Mode, Median. • Understand the evolution process.
	401.4	• Understand the seed development technology which is used to increase a commercial value of seeds.
S.Y. Paper-II (402)	**402.1**	• Understand the principle of Mendelism. • Understand the linkage and crossing over process.
	402.2	• Understand the Mutation , chromosomal 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. Botany practical Course	**403**	• Study the Mendel's law of segregation with help of color beads. • Prove the Mendel's law of independent assortment. • Study the different method of vegetative propagation. • Study the method of soil sterilization for plant nursery.

SEMESTER V
Department of Chemistry
Course Outcomes (COs)

Course Name: B. Sc.
Year/Semester: Third/Fifth
Subject: Chemistry
After the successful completion of the course students will be able to-

Paper	**CO Name**	**Outcome**
T.Y. Paper-I Organic Chemistry (501)	**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
T.Y. Paper-II Physical Chemistry (502)	**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.
T.Y. Chemistry Practical Course	**503**	• Verify theoretical principles experimentally • Interpret the experimental data • Improve analytical skills • Correlate the theory and experiments and understand their importance

Department of Physics
Course Outcomes (COs)

Course Name: B. Sc.
Year/Semester: Third/Fifth
Subject: Physics
After the successful completion of the course students will be able to-

Paper	CO	Description
Paper 1: Atomic Physics, Free Electron Theory and Statistical Physics **(501)**	**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 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 Nanotechnology (**502)**	**502.1**	• Understand the basics of quantum mechanics and apply it to explain the phenomena like black body radiation and Compton Effect.
	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 Name	Outcome
TY Paper-I 501 Analysis	**501.1**	Understand the concept of Fourier series
	501.2	Understand the concept of Riemann-Stieltjes integral
	501.3	Understand the concept of Analytics Functions
	501.4	Students learn about Mobius Transformation
TY Paper-II 502 Metric spaces, Complex	**502.1**	Students deal with the definition, properties and examples of countable and uncountable sets and understand the metric space
	502.2	Understand the concept of Completeness, Compactness and Connectedness
	502.3	Understand the concept of Ring

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

Paper	CO Name	Outcome
T.Y. Paper-I General Mammalian Physiology – I **(501)**	**501.1**	Understand the Enzymes **–** Distribution and chemical nature of enzymes, General properties of enzymes, Classification of enzymes, Factors affecting enzyme activity
	501.2	Understand the Structure and functions of digestive glands - (Salivary, Gastric, Intestinal, Liver and Pancreas), Gastrointestinal hormones, Digestion and absorption of proteins, carbohydrates and lipids, Vitamins- Fat soluble and water soluble vitamins; Sources, deficiency and diseases
	501.3	Understand the Respiratory pigments - Types , distribution and properties, Mechanism of Respiration, Transport of 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 *Rh* factor, Cardiac cycle, E.C.G. and Blood pressure
T.Y. Paper-II Physical Zoology (502)	**502.1**	Understand Site selection and construction ,Pre stocking and post stocking manangement of nursery, rearing and stocking ponds, Breeding of fishes by bund and Chinese hatcheries. Induced breeding by hypophysetion. New generation drugs in induced breeding, Brief study of freshwater aquaculture system – Polyculture, cage culture, sewage fed fish culture, integrated fish farming, Fish products and byproducts, Fish preservation
	502.2	Understand the Prawn culture and Pearl culture, Fabrication and setting up of aquarium and its maintenance, Breeding of aquarium fishes – Live bearers and egg layers, Diseases caused by fungi, bacteria, protozoa and helminthes
	502.3	Understand the concept Chemical control : Insecticides - Pyrethroids, carbomate and HCN – mode of action, merits and demerits, Biological control – Biological agents – predators and parasites; merits and demerits, Crop pest: Life cycle, damage and control of Cotton spotted boll worm -*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, *Bombyx mori,* 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, *Laccifer lacca* - Life cycle, Lac processing, Lac products and Economic Importance
T.Y. Zoology Practical Course	**503**	• Verify theoretical principles experimentally • Interpret the experimental data • Improve analytical skills • Correlate the theory and experiments and understand their importance

Department of Botany
Course Outcomes (COs)

Course Name: B. Sc.
Year/Semester: Third/Fifth
Subject: Botany
After the successful completion of the course students will be able to-

Paper	CO Name	Outcome
T.Y. Paper-I Plant physiology, Mineral Nutrition and Hydrophonics (501)	**501.1**	• Understand water relation and its significance. • Understand the Osmosis, Diffusion, Osmotic Pressure. • Understand the ascent of sap. • Understand the transpiration, phloem transport and mineral uptake.
	501.2	• Understand the photosynthesis process, photosynthetic pigments. • Understand the light and dark reaction of photosynthesis. • Understand the respiration and its mechanism. • Understand the fermentation process.
	501.3	• Understand the nitrogen fixation by symbiotic and Non-Symbiotic mechanism. • Study the pant movements and photoperiodism. • Study the circadian rhythms and Biological Clock.
	501.4	• Understand the mineral nutrition, source and types. • Study the role and deficiency symptoms Macronutrients and Micronutrients. • Study the hydroponics, advantages and disadvantages of hydroponics.
T.Y. Paper-II Plant Ecology and Organic Farming (502)	**502.1**	• Understand the concept of Ecology. • Study the climatic, Edaphic and Physiographic factors.
	502.2	• Study the ecosystem, components of Ecosystem. • Understand the food chain, food web and ecological pyramids. • Study the Autecology and Synecology.
	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. Botany Practical Course	**503**	• Determining the Frequency, Density, and Abundance of community by Quadrate Method. • Determining the homogeneity of vegetation by Raunkier's frequency. • Study the frequency of herbaceous species in grassland to compare the frequency distribution with Raunkier's standard frequency diagram. • Study the soil profile of different locations near by area. • Study the salinity of different water samples.

SEMESTER VI
Department of Chemistry
Course Outcomes (COs)

Course Name: B. Sc.
Year/Semester: Third/Sixth
Subject: Chemistry
After the successful completion of the course students will be able to-

Paper	CO Name	Outcome
T.Y. Paper-I Inorganic Chemistry (601)	**601.1**	• Understand Metal ligand bonding in Transition Metal complexes. • Electronic spectra of Transition Metal Complexes.
	601.2	• Understand Magnetic Properties of Transition metal Complexes. • To study thermodynamic and kinetic aspect of metal complexes.
	601.3	• Understand organometallic chemistry. • Understand properties and structure of metal carbonyls.
	601.4	• To study Bio-organic chemistry • Understand the concept of s Hard and Soft acids and bases.
T.Y. Paper-II Organic Chemistry (602)	**602.1**	• Understand NMR Spectroscopy
	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	CO	Description
Paper 1: Relativity, Nuclear Physics and Bio Physics **(601)**	**601.1**	• Understand the postulates of the special theory of relativity. • Apply the concept of relativity to explain Length contraction, Time dilation, Velocity addition theorem, Variation of mass with velocity, Mass energy equivalence.
	601.2	• 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: Electronics, Fiber Optics, Communication and Digital Electronics (**602)**	**602.1**	• Understand the operations and applications of operational amplifiers.
	602.2	• Understand the various basic structures of optical fibers and basic concept involved in propagation of light waves through optical fiber.
	602.3	• Understand the concept of amplitude modulation and frequency modulation.
	602.4	• Understand various number systems. • Construct the truth tables for various logic gates. • Verify De Morgan's theorem
Physics Practical **(603)**	**603**	• Apply and demonstrate the theoretical concepts of Physics and to develop scientific attitude.

Department of Mathematics
Course Outcomes (COs)

Course Name: B. Sc.
Year/Semester: Third/Sixth
Subject: Mathematics
After successful completion of three year degree program in Mathematics a Student should be able to;

Paper	CO Name	Outcome
TY Paper-I	**601.1**	Understand the concept of Group Automorphism
	601.2	Understand definition and examples of vector spaces

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

Course Name: B. Sc.
Year/Semester: Third/Sixth
Subject: Zoology
After the successful completion of the course students will be able to-

Paper	CO Name	Outcome
T.Y. Paper-I General Mammalian Physiology - II **(601)**	**601.1**	Understand the Types of neurons, E.M. structure of neuron, Conduction of nerve impulse, Ultrastructure of striated muscle, Sliding filament theory of muscle contraction, Properties of muscles (Twitch, Tetanus, Tonus, Summation, All or None Principle, Muscle fatigue)
	601.2	Understand Structure of uriniferous tubule, Mechanism of urine formation, Counter – current mechanism, Normal and abnormal constituents of urine; Elementary idea of dialysis
	601.3	Understand the Structure and functions of pituitary gland, Structure and functions of thyroid and parathyroid gland, Structure and functions of adrenal gland, Structure and functions of pineal gland
	601.4	Understand the Oestrous and menstrual cycle, Male and female sex hormones, Causes of infertility in male and female, Contraceptives – Mechanical and hormonal ; *In-vitro* fertilization
T.Y. Paper-II Applied Zoology –II (Biotechniques, Microtechnique, Biotechnology, Bioinformatics and Biostatistics) **(602)**	**602.1**	Understand the Concepts of sterilization: Filtration, autoclaving, dry heat sterilization, wet sterilization and radiation, Separation of biomolecules: Centrifugation (Sedimentation, density gradient); Chromatography (Elementary idea of thin layer, gel filtration and ion exchange - Principles and applications), Electrophoresis: Agarose gel electrophoresis, SDS-PAGE, Principles of colorimeter and spectrophotometers
	602.2	Understand the concept of Fixation, dehydration, clearing, embedding & section cutting, Difficulties encountered during section cutting (causes and remedies), Double staining with Haematoxylin and

		Eosin, Histochemical staining techniques for carbohydrates (Periodic acid schiff), proteins (Mercury-bromophenol blue) and lipids (Sudan black-B)
	602.3	Understand the Basic concepts in recombinant DNA technology, Gene isolation method- Shotgun cloning, Isolation of gene- DNA manipulation enzymes: Nucleases, ligases, polymerases, Basic concepts of cloning vectors and splicing : Insertion of DNA and ligation using blunt ends, cohesive ends, Cloning vectors, Application of biotechnology: Insulin and vaccine production
	602.4	Understand the Bioinformatics: Definition, Basic concepts in bioinformatics, importance and role of bioinformatics in life sciences, Bioinformatics databases- introduction, types of databases, Nucleotide sequence databases, Elementary idea of protein databases, Biostatistics – Tabulation of data, presentation of data, sampling errors, mean, mode, median, probability, standard error and standard deviation
T.Y. Zoology Practical Course	**603**	• Verify theoretical principles experimentally • Interpret the experimental data • Improve analytical skills • Correlate the theory and experiments and understand their importance

Department of Botany
Course Outcomes (COs)

Course Name: B. Sc.
Year/Semester: Third/Sixth
Subject: Botany
After the successful completion of the course students will be able to-

Paper	CO Name	Outcome
Biochemistry, biotechnology And herbal technology Paper-I (601)	**601.1**	• Study the lipids, role of fatty acids, oils and waxes. • Study the enzymes its classification and nomenclature. • Study the basic concepts of Enzymology. • Study the enzyme inhibitors.
	601.2	• Study the tissue culture techniques. • Study the process of sterilization. • 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. • Study the Agrobacteria mediated gene transfer.
	601.4	• Develop the skills of herbal technology. • Study the methods of Cultivation, Harvesting,

		• Understand the technique of dye yielding of herbal plants. • Study the used of herbs in cosmetics.
T.Y. Paper-II Phytogeography, Utilization of Plants, Techniques and Pharmacognosy (602)	**602.1**	• Study the phytogeography, climatic regions of India. • Study the Environmental pollution. • Study the Renewable and Non Renewable sources. • Understand the conservation strategies.
	602.2	• Study the morphology, utilization and important chemicals constituents of the plants. • Understand the concept of Ethnobotany.
	602.3	• Study the principle, types and application of microscope. • 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.

Department of B.Voc.
(Bachelor of vocational)
Building Technology

Semester-I

SOFT SKILL DEVELOPMENT-I
COURSE OBJECTIVES AND OUTCOME

COURSE OBJECTIVES

1. To know the process business communication.
2. To understand concept of marketing.
3. To know concept of motivation .
4. To understand team dynamics

COURSE OUTCOMES

1. Students will able to understand fundamental principle of effective business communication.
2. Students will apply the creative marketing techniques.
3. Students will be self-motivated.
4. Students will able to work in team.

APTITUDE DEVELOPMENT-I

COURSE OBJECTIVES AND OUTCOME

COURSE OBJECTIVES

1 To know the arithmetic ability.
2 To understand concept of LCM & HCM.
3 To know concept of ecosystem.
4 To understand computer skill

COURSE OUTCOMES

1. Students will able to understand and solve arithmetic problems.
2. Students will solve LCM HCM problems.
3. Students will take care of ecosystem.
4. Students will able to handle computer

SEMESTER-II

SOFT SKILL DEVELOPMENT-II

COURSE OBJECTIVES AND OUTCOME

COURSE OBJECTIVES

1. To study nature and concept of stress.
2. To understand different types of job stress.
3. To know how to overcome stress of employee.
4. To learn different relaxation techniques.

COURSE OUTCOMES

1. Students will able to understand nature and concept of stress.
2. Students will able to understand job stresses.
3. Students will able to overcome stress.
4. Students will able to understand importance of relaxation techniques

APTITUDE DEVELOPMENT II

COURSE OBJECTIVES AND OUTCOME

COURSE OBJECTIVES

1 To study simple interest.
2 To understand calendar.
3 To know concept of area.
4 To learn different economic issues.

COURSE OUTCOMES

1 Students will able to solve simple interest problems.
2 Students will able to understand calendar.
3 Students will able to solve problems on area.
4 Students will able to understand economic issues.

SEMESTER-III

SUBJECT: SOFT SKILL DEVELOPMENT-III

COURSE OBJECTIVES AND OUTCOME

COURSE OBJECTIVES

1. To understand concept of stealers.
2. To study importance of planning.
3. To study concept of fatigue.
4. To learn concept of scheduling and planning.

COURSE OUTCOMES

1. Students will able to understand importance of time stealers.
2. Students will apply to plan their academic work.
3. Students will develop technique to overcome fatigue.

4.Students will able to differentiate in scheduling and planning

APTITUDE DEVELOPMENT-III

COURSE OBJECTIVES AND OUTCOME

COURSE OBJECTIVES

1 To understand concept of charts.
2 To know artificial language.
3 To study concept of verbal reasoning.
4 To learn computer skill.

COURSE OUTCOMES

1 Students will able to identify different charts.
2 Students will apply to understand coding language.
3 Students will learn verbal reasoning.
4 Students will able to handle computer.

SEMESTER-IV

APTITUDE DEVELOPMENT-IV

COURSE OBJECTIVES AND OUTCOME

COURSE OBJECTIVES

1 To study logical reasoning.
2 To analyze different arguments.
3 To study concept of nonverbal reasoning.
4 To understand comprehension.

COURSE OUTCOMES

1 Students will able to solve logical reasoning problems.
2 Students can cope with arguments.
3 Students will able to solve nonverbal problems.
4 Students will understand comprehension.

SEMESTER-V

SOFT SKILL DEVELOPMENT-IV

COURSE OBJECTIVES AND OUTCOME

COURSE OBJECTIVES

1. To study corporate culture.s
2. To analyze different characteristics of leader.
3. To study concept of attitude.
4. To understand new trends in CRM.

COURSE OUTCOMES

1. Students will able to follow corporate culture through simulation.
2. Students can cope with large group situation.
3. Students will develop their own positive attitude.
4. Students will understand CRM.

APTITUDE DEVELOPMENT-V

COURSE OBJECTIVES AND OUTCOME

COURSE OBJECTIVES

1 To understand data interpretation methods.
2 To study number series
3 To know general awareness issues.

COURSE OUTCOMES

1 Students can able solve data interpretation problems.
2 Students will acquire knowledge of number series solving skill.
3 Students will understand general awareness issues.

COURSE OBJECTIVESs

1. To understand concept of selling.
2. To study call handling skill
3. To understand EPABX System.

COURSE OUTCOMES

1. Students can able develop self-techniques for selling.
2. Students will acquire knowledge of call handling skill

Students will understand EPABX system.

Software Development

Semester –I

Paper -1-Computer Fundamentals & Networking

Course Outcome :

1. Knowledge of computer equipment including both hardware and software

2. Able to identify, difference between number system and convert number from one system to another.

3. Awareness on the basics of computer networks, protocols used in communication and transmissions in computer networks.

4. Able to Understand knowledge of the services provided by operating systems.

Paper -2 : C Programming

Course Outcome :

1.Develop problem solving and programming skills

2.Understanding Various concepts of C language

3. Implement strings in your C program

4. Understand the basics of file handling mechanisms

Semester –II

Subject – Paper -1: Operating System Concepts & LINUX

Course Outcome

1. To learn objectives & functions of operating systems.

2.To learn and understand various memory and scheduling algorithms.

3.To learns linuxs operating system & basics syntax for a commands

4.To understand processes & its life cycle

Subject – Paper -2 : Programming in C++

Course Outcome

1.Understand basic concepts of OOPs and benefits of OOPs

2.Able to analysis and design of web based applications

3. Able to develop media content and graphics design

4. Able to design programming for the web.

Semester –III

Subject – Paper -1: Data Structures

Course Outcome :

1.Learn the concept of various data structures, implementation and applications.

2.Demonstrate basic computer and internet including operating a computer.

3.Demonstrate knowledge of the foundational mathematical concepts in computing.

4.Demonstrate aptitude for analyzing information and making logical conclusions.

Subject – Paper -2 : Web Designing

Course Outcome :

1.Learn the conceptof HTML, implementation, Command and applications.

2.Demonstrate basic computer and internet including operating a computer.

3. Demonstrate knowledge of the foundational mathematical concepts in computing.

4.Demonstrate aptitude for analyzing information and making logical conclusions

Semester –IV

Subject – Paper -1: Database Management System

Course Outcome :

1.Learn the basic priciples of database management system.

2. Understand the concepts of database manipulation using SQL and PL/SQL

3.Enable to design a database to solve real life applications.

4.Demonstrate aptitude for analyzing information and making logical conclusions

Subject – Paper -2: Web Development in PHP

Course Outcome :

1.To learn client side and server side scripting.

2. To learn PHP Programming.

3.To learn how to develop dynamic websites and interact with dadabases through Internet.

4.Demonstrate aptitude for analyzing information and making logical conclusions

Semester –V

Subject – Paper -1: System Analysis & Software Engineering

Course Outcome :

1.Learn various software development, methodologies and practices.

2. Able to the understanding of the software.

3.Able to their understanding of highlevel design

4.Learn various evaluation methods in software development.

Subject – Paper -2: JAVA Programming

Course Outcome :

1.To review the concept of OOP.

2. To learn JAVA programming environments.

3.To practice programming in JAVA

4. To learn GUI application development in JAVA

Hardware Technology and Networking

Semester-I

Paper –I:- Computer Fundamentals

1.Able to describes the computer and it's general features.

2. Defines input and output units computer

3.Knows the terms motherboard , CPU, RAM ,ROM, BIOs, CMOS etc.

4.Able to understand operating system and understand its commands, Internal, External

Paper- II :- Computer & Network organization-I

1.Able to understand Basic network and its type

2. Able to understand networking devices like repeaters, NIC, Hub, switches, Routers, Bridges.

3. Understand and use correctly communication network.

4. Able to explain internet, and how it's work.

Semester-II

Paper-I :-Operating System

1.Understand the role of operating system as system software.

2.Able to understand directory commands; DIR,MD,RD

3.Defining I/O system, Device ,management policies and secondary storage structure.

4.Comparison of UNIX and windows based OS

Paper -II :-Computer & Network Organization - II

1.Able to understand used of LAN. By using LAN sharing the information.

2.Will study how to configure Pc's running Linux so that they receive Ip addresses.

3.Will able to understand and build the skills of Sub netting and routing mechanisms.

4.able to use Linux commands to understand how a pc is configure

Semester-III

Paper –I:-Computer Hardware & Network Administration

1.Able to understand system input and output and its features.

2.Understand pants of CPU

3. Understand types of computer memory & its characteristics.

4.Able to explain secondary memory and how its formatting

Paper- II :- Network Programming

1.Understand a detailed knowledge of the TCP/UDP sockets.

2.Apply knowledge of Unix/Linux operating system to build robust client & server software.

3.Describe major technologies and protocols used network communications

4.Make use of different types I/0

Semester-IV

Paper -I :- Mobile Computing

1.Able to understand mobile communication, and its characteristics.

2.Define mobile technologies in terms of hardware ,software and communication

3.Evaluate the effectiveness of different mobile computing framework.

4.Describe how mobile technology functions to enable other computing technologies.

Paper-II :- Internet Routing Design

1.Able to understand network , network routing, and internet service.

2.To understand client server architecture.

3.Able to understand types & switch , modes of switches

4.Understand the routing protocol.

Semester-V

Paper -I :- Information and Network Security

1. Develop Policies and procedures to manage enterprise security risk

2. Analyze and resolve security issues in networks and computer system.

3. Able to understand wireless networks, methods and Procedures.

4.Able to understand firewalls network.

Paper –II:- Linux of Server

1.Able to understand basic information on Linux

2.Implement and administer a Linux server.

3.Implement file services.

4.Able to secure a Linux server

Food Processing & Engineering

Semester-I

Paper-I- Fundamentals of Food & Nutrition

1. summarize and critically discuss/ understand both fundamental and applied aspects of food science.

2.They will be able to explain functions of specific nutrients in maintaining health, identifying nutrient specific foods and apply principles from the various facets of food science and related disciplines to solve practical as well as real-world problems. –

3. use current information technologies to locate and apply evidence-based guidelines and protocols and get imparted with critical thinking to take leadership roles in fields of health, dietetics, special nutritional needs and nutritional counseling.

Paper-I- Introduction to Food Processing

CO1: Students will understand the basic concepts in food processing and engineering and will get knowledge of the different instruments used in food processing and engineering.

CO2: They will understand different unit operations used in food processing.

CO3: They will understand the basic of heat transfer and energy requirement in food industry, physical properties of water, water activity

Semester-II

Paper-I- Food Microbiology

CO1: Students will understand the basic concepts in microbiology, principle and working of different instruments used in lab along with its application.

CO2: They will get the knowledge about the how bacteria grows, different factors which affect their growth, different requirements for bacterial growth, different isolation and purification methods used for bacteria

CO3: They will understand the principle and importance of different staining methods used for bacteria.

CO4: They will gain knowledge on different sources, types of bacteria that cause spoilage in food, various changes that occur during spoilage in food depending on their nutrient content.

CO5: Students will understand different methods that can be used to prevent and detect bacterial spoilage of food.

CO6: They will understand importance of preservatives different methods and its importance

Semester-III

Paper-I Bakery and Confectionery

CO1: Students will understand the basic terms and concepts related to bakery and confectionary products.

CO2: Students will gain the knowledge related to various machineries used in bakery.

CO3: Learn the role of different ingredients in bakery products.

Co4: To know the manufacturing details of bakery and confectionary products

Co5: Learn about the different parameters for setting up bakery unit.

Co6: Understand cost components like fixed cost and learn how to do the costing of the product

Semester-IV

Paper-I- Fruits, Vegetables and Post Harvest Technology

CO1: Students will understand the importance, current status, nutritional composition and reasons of spoilage of fruit and vegetables.

CO2: They will learn different preservation methods such as pasteurization, sterilization, canning, freezing, refrigeration etc.

English and Communication Skills

CO1. To make students improve communicative Competence

CO2. To develop in students the ability to communicate in English according to situation and purpose

CO3. To expose students to make optimal use of listening, speaking, reading and writing skills.

CO4. To reinforce and help students acquire vocabulary through the acquired skills.

CO5. To provide students with an opportunity to personalize language by making use of their life experience and world knowledge


शिवापूर महाविद्यालय, शिवापूर
तमसो मा ज्योतीर्गमय
जि. नागपूर