

# Program Outcomes Course Outcomes

Academic session-2020-2021

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

#### Bhiwapur Mahavidyalaya, Bhiwapur Course Outcome and Program Outcome Index

**Department of Arts** 

B. A   First   1   English   2   Marathi   3   Political Science   4   Economics   5   English Literature   6   Sociology   7   History   8   Marathi Literature   9   Ambedkar Thought   11   Marathi   12   Political Science   13   Economics   14   English Literature   15   Sociology   16   History   17   Marathi Literature   18   Ambedkar Thought   19   English   10   Marathi   11   Marathi Literature   12   Political Science   13   Economics   14   English Literature   15   Sociology   16   History   17   Marathi Literature   18   Ambedkar Thought   19   English   20   Marathi   21   Political Science   22   Economics   23   English Literature   24   Sociology   24   Sociology   24   Sociology   25   Economics   26   Economics   27   English Literature   28   English Literature   29   English Literature   20   English Literature   20	age No.
2   Marathi   3   Political Science   4   Economics   5   English Literature   6   Sociology   7   History   8   Marathi Literature   9   Ambedkar Thought   Second   10   English   11   Marathi   12   Political Science   13   Economics   14   English Literature   15   Sociology   16   History   17   Marathi Literature   18   Ambedkar Thought   Third   19   English   20   Marathi   21   Political Science   22   Economics   23   English Literature   24   Sociology	
3	
4	
5	
6   Sociology   7   History   8   Marathi Literature   9   Ambedkar Thought   10   English   11   Marathi   12   Political Science   13   Economics   14   English Literature   15   Sociology   16   History   17   Marathi Literature   18   Ambedkar Thought   19   English   20   Marathi   21   Political Science   22   Economics   23   English Literature   24   Sociology	
7	
8	
9	
Second   10	
11   Marathi   12   Political Science   13   Economics   14   English Literature   15   Sociology   16   History   17   Marathi Literature   18   Ambedkar Thought   Third   19   English   20   Marathi   21   Political Science   22   Economics   23   English Literature   24   Sociology	
12	
13	
15   Sociology   16   History   17   Marathi Literature   18   Ambedkar Thought   Third   19   English   20   Marathi   21   Political Science   22   Economics   23   English Literature   24   Sociology	
15   Sociology   16   History   17   Marathi Literature   18   Ambedkar Thought   Third   19   English   20   Marathi   21   Political Science   22   Economics   23   English Literature   24   Sociology	
16	1
Third         19         English           20         Marathi           21         Political Science           22         Economics           23         English Literature           24         Sociology	
Third 19 English 20 Marathi 21 Political Science 22 Economics 23 English Literature 24 Sociology	
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23 English Literature 24 Sociology	V
24 Sociology	1
25 111	
25 History	
26 Marathi Literature	
27 Ambedkar Thought	
Fourth 28 English	
29 Marathi	
30 Political Science	
31 Economics	
32 English Literature	
33 Sociology	
34 History	
35 Marathi Literature	
36 Ambedkar Thought	
Fifth 37 English	
38 Marathi	
39 Political Science	
40 Economics	

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

## **Department of Commerce**

Session	Course	Semester	Sr. No.	Subject	Page No.
1	B. Com	First	1	English	1
$\mathbf{A} / /$	1 5		2	Marathi	
farg	- 73	3	Financial Accounting- I		
	(5	4	Business organization	(	
	1	5	Company law		
			6	Business Economics- I	
		Second	7	English	
$\mathbb{X} \setminus \mathbb{X}$	all	T (UI	8 = 3	Marathi	
· \ \	(1-	1411 4	9	Statistics and Business	
				mathematics	
X		10	10	Business Management	
7			11	Secretarial Practice	
		' 47	12	Business Economics II	
	-/	Third	13	English	
	` `		14	Marathi	
2020-2021	7		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.
\ / /	B.Sc.	First	<b>A</b> 1	English	
	undannelanger 	2	Marathi		
		3	Chemistry I & II	111	
	I	(1-11)	4	Physics I & II	
			5	Mathematics I & II	
		100	6	Zoology I & II	
2020-2021		1	7	Botany I & II	
$\sim 111$		Second	_8	English	
<b>T</b>	तमः	प्रामा	9	Marathi	
\\			10	Chemistry I & II	
$\sim$		~	11	Physics I & II	
7		12	12	Mathematics I & II	
		14.	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.	Subject	Page
2020	Dan	E: C	No.	English 6 Co	No.
2020- 2021	Building Technology	First	<b>ध</b> 7	English & Communication Skill –I	
*/	/ 2	111	2/	Soft Skill Development-I	
	1.5	J. J. Harris	3	Aptitude Development-I	
\ //	De		4	Bar, Bender & Fixer -I	A A
*//		understander 	5	Bar, Bender & Fixer -II	
	10	Second	6	English & Communication	
	I	( -255		Skill –II	
	+		7	Soft Skill Development-III	7
		100	8	Aptitude Development –II	
\ \		The state of the s	9	Shuttering Carpenter -I	
$\mathbf{M} \setminus \mathbf{M}$		A	_10	Shuttering Carpenter -II	K
7//	तमस्	Third	11	English & Communication Skill –III	
			12	Soft Skill Development-III	
4		12	13	Aptitude Development –III	
		10%	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	First	1	English & Communication Skill –I	
	<u>&amp;</u>		2	Soft Skill Development-I	
	Engineering		3	Aptitude Development-I	
	+//	to	4 '211	Fundamentals of Food & Nutrition	
*/	1	FILE	111.6/	Introduction to Food Processing	<b>X</b>
. //	S	Second	6	English & Communication Skill –II	A
文 / /	8	entern dangter	7	Soft Skill Development-II	
	10	7	8	Aptitude Development –II	
	T.	( -25	9	Food Microbiology	1
KII	-		10	Dairy Technology	
		Third	-11	English & Communication Skill –III	
		2	12	Soft Skill Development-III	
* \ \	तमर	तं मा	13	Aptitude Development –III	14
'\\			14	Bakery and Confectionery	*
*		2	15	Emerging Technologies in Food Industry	X
		Fourth	16	English & Communication Skill –IV	
			17	Soft Skill Development –IV	
	*		18	Aptitude Development –IV	
		-	19	Fruits, Vegetables and Post	
			1	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		First	1	English & Communication Skill –I	
	<u>nt</u>		2	Soft Skill Development-I	
		4	<b>C</b> 3 7	Aptitude Development-I	
*/	1	18110	11/4/2	Computer Fundamentals & Networking	*
	1		5	- C Programming	
k	Be	Second	6	English & Communication Skill –II	\ <del>*</del>
	10	-3	7	Soft Skill Development-III	1
	5	2.33	8	Aptitude Development –II	
r I (	C	CE	9	Operating System	14
		\AS		Concepts & LINUX	
- 1 1			10	Programming in 'C++'	
K//	तमस	Third	<u>न</u> ुर	English & Communication Skill –III	<b>/</b> ¥
	, , , ,		12	Soft Skill Development-III	/
~/\			13	Aptitude Development –III	
4		13	14	Data Structures	
		07.	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	
		A	29	Project - Industry Based Project	
Session	Course	Semester	Sr. No.	Subject	Page No.
2020- 2021	Hardware Technology	First	1	English & Communication Skill –I	
	and Notes deine	G	2 7	Soft Skill Development-I	
	<u>Networking</u>	2110	3	Aptitude Development-I	TK.
*/	1 8	14.	114//	Computer fundamentals	X
	8		5	Computer & Network Organization -I	
*//	5	Second	6	English & Communication Skill –II	X
	4	2.56	7	Soft Skill Development-II	
	-		8	Aptitude Development –II	
		103	9	Operating System	
		The state of the s	10	Computer & Network	
$\times //$	तमस्	Third	TIS!	Organization -II English & Communication Skill –III	/*
			12	Soft Skill Development-III	
*/		2	13	Aptitude Development –III	K
		5.	14.	Computer Hardware & Networking administration	7
			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 feGkyhizdj.k &2-mfn~"B&f'k{k.k ikBkrwu egkRek Qqys ;kauh Hkkjrkrhy f'k{k.kkP;k dsysY;k
iqjLdkjkph ekfgrh ns.ks

**Ik/;&** 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:lk 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-

**Ik/;&** 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-

**Ik/;&** 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

PROGRA	MME OUTCOME
Department of History	After successful completion of three year Degree Programme in History a student should be able to know
Programme Outcome  A H H H H H H H H H H H H H H H H H H	<ul> <li>PO1: History has an unprecedented significance in human life</li> <li>PO2: The study of history preserves culture</li> <li>PO3: The study of history leads to socio-political awareness</li> <li>PO4: Learn about world events</li> <li>PO5: The study of history is important for competitive examination</li> <li>PO6: Conversational skills come and understand the importance of human society</li> <li>PO7: Studying history inspires patriotism</li> <li>PO8:: The study of history reveals the national-international relations of the country.</li> </ul>
Programme Specific Outcome	<ul> <li>PSO1: Knowing the importance of culture gives you the ability to make decisions in yourself</li> <li>PSO2: Gains the ability to make decisions while living life</li> </ul>

	<ul> <li>PSO3: Employment opportunities are obtained through competitive examinations</li> <li>PSO4: New Values - Able</li> </ul>
	generation is formed by acquiring moral
	Values.
Course	Outcome completion of the course
<u> </u>	students should be able to:
B.AI Sem I History of	
India ( Beginning - 1525)	Co-1 Students understood Harappan
1) 77 1 1 6	culture and Vedic culture
1) To know information about	➤ Co-2 I got detailed information
Harappan culture, Vedic culture	about Jainism-Buddhism
Harappan culture, Vedic culture 2) To understand information	Co-3 Understood the value of
2) To understand information	Co-3 Understood the value of slavery and sultanate
2) To understand information about Jainism- Buddhism	<ul> <li>Co-3 Understood the value of slavery and sultanate</li> <li>C0-4Understood information about</li> </ul>
2) To understand information about Jainism- Buddhism     3) Understanding slavery and	Co-3 Understood the value of slavery and sultanate
<ul><li>2) To understand information about Jainism- Buddhism</li><li>3) Understanding slavery and sultanate</li></ul>	<ul> <li>Co-3 Understood the value of slavery and sultanate</li> <li>C0-4Understood information about</li> </ul>
2) To understand information about Jainism- Buddhism     3) Understanding slavery and	<ul> <li>Co-3 Understood the value of slavery and sultanate</li> <li>C0-4Understood information about devotional movement and Sufi</li> </ul>

#### 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 IR;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-

Ik/;&Ihek 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 iVyhizdj.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 izklr >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 izklr >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; izklr 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 vIiklkgsc 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] Jhp $\emptyset$ /kjLokehps pfj=] egkuwHkko iaFkk fo $^{"}$ k;h ekfgrh ns.ks-

Ik/;& 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 izklr >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;kZph o'kS{kf.kd dk;kZph 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 IRlaxrhpk o.kZu dsysyk efgek lkax.ks-

Ik/;& IRlaxrhr 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-

Ik/;& 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 izklr >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	➤ Co-1 The Battle of Buxar and how
India(1764 - 1884)	the British implemented their
1)Battle of Buxar and English	policy in India
policy	Co-2 Gained information about
2) Kayamdhara Methods,	working methods, Kaymdhara
Ryotwari, and Lord Wellesley	ryotwari and Mahalwari and Lord,
3) The uprising of 1857	Wellesley deployment forces.
(independent war) results	➤ Co-3 The uprising of 1857
4) How did nationalism	(independent war) result was
emerge in India?	known
The state of the s	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 ØkarhdkjdkaP;k eukrhy Lokra™;klaca/kh ns'kHkDrhph tk.kho fo|kF;kZauk >kyh-

dfork & 3-mfn~"B&IR; ;k ladYiusps Lo#i IR;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 iVyhdfork& 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-

Ik/;& 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-

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

Department of Marathi Marathi Literature Course Objectives and Outcomes 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-

# 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.kslk/;& 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.kslk/;& 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--

Ik/;&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.kslk/;&bafnjk larkuh dsysyh 'kjn \_rwrhy mUgkph ekfgrh fo|kF;kZauk izklr >kyhdfork &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-

**Ik/;&** 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

- ➤ 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

4) United Nations and performance	➤ Co-4 Received information about
Suez Canal	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- e

- 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 di.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

Unit No 3- Hire Purchase Account Meaning, Method & Problems. 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-

### 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 GroupsCreate 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**

2

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

IkfgR; Isrw

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

Paper	CO Name	Outcome
FY Paper-I Inorganic Chemistry (101)	101.2	<ul> <li>To understand the basic structure of atom.</li> <li>Understand shape of orbitals.</li> <li>Understand periodic properties such as atomic and ionic radii, ionization energy, electron affinity etc.</li> <li>To understand the concept of covalent bond.</li> <li>To understand the bond parameters and various types of types of hybridization.</li> </ul>
K / -	101.3   <b>H H H</b>	<ul> <li>To understand the ionic structures with respect to NaCl and CsCl.</li> <li>Understand s block element and their properties such as electronic configuration, atomic and ionic radii, I.P. etc.</li> <li>Understand chemical properties of the public pages. Properties, attractures.</li> </ul>
*/	101.4	<ul> <li>noble gases, preparation, structures, bonding and applications.</li> <li>To understand the P block element. Comparative study of groups 15,16, 17 with respective their properties.</li> <li>Understand the Hydrides, Oxides, Peroxyacids, Hydrides.</li> </ul>
FY Paper-II Physical Chemistry (102)	102.1	<ul> <li>Understand the common thermodynamics terms. Types of systems and varies thermodynamics processes.</li> <li>State and path functions and their differentiation.</li> <li>Understand the first law of thermodynamics.</li> </ul>
	102.2	<ul> <li>Understand gas equation and laws.</li> <li>Understand qualitative discussion of the Maxwell-Boltzmann distribution.</li> </ul>

	Understand ideal gas and real gases behaviors.
102.3	<ul> <li>Understand the Intermolecular forces, structure of liquid, structural difference between solid, liquid and gases.</li> <li>Properties of liquid like surface tension, viscosity, refractive index.</li> </ul>
102.4	<ul> <li>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.</li> <li>Understand types of catalysis and enzymes.</li> </ul>
F.Y. Chemistry Practical Course	<ul> <li>Verify theoretical principles experimentally</li> <li>Interpret the experimental data</li> <li>Improve analytical skills</li> <li>Correlate the theory and experiments and understand their importance</li> </ul>

#### **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	101.1	<ul> <li>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</li> </ul>	
Mechanics (101)	101.2	<ul> <li>Understand the concept of viscosity.</li> <li>Apply Poiseuille's Equation, Bernoulli's Theorem, Stoke's law and the concept of terminal velocity.</li> </ul>	
	101.3	<ul> <li>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.</li> </ul>	
	101.4	• Understand the System of particles and conservation laws.	
Paper 2: Electrostatics,	102.1	• Understand the concept of Electrostatic force, Electric field, Electric potential, Electric dipole, Electric dipole moment.	
Time varying fields & Electric Currents	102.2	<ul> <li>Understand the concept of polarization and capacitors with and without dielectric.</li> <li>Apply Gauss law to parallel plate capacitor.</li> </ul>	
(102)	102.3	<ul> <li>To understand the concept of electromagnetic induction and transformer.</li> <li>Apply equation of continuity and Kirchhoff's law to rise and decay of current in LR, CR and LCR circuits.</li> </ul>	
	102.4	<ul> <li>To apply complex number in solving an a.c. circuit.</li> <li>Apply j- operator in LR, CR and LCR circuit.</li> <li>Understand the concept of Resonance</li> <li>Calculate I, Z, Φ and fr.</li> </ul>	
Physics Practical (103)	103	<ul> <li>Apply and demonstrate the theoretical concepts of Physics and to develop scientific attitude.</li> <li>Interpret the experimental data</li> </ul>	

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

	Indentify Indeterminate forms and application of L'Hospitals Rule
102.3	Understand the concept of partial differential equation, Eulers Theorem and Jacobians
102.4	Identify the various types and methods to solve Integration and application of Reduction Formulae

#### 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
1 1	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

**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	Outcome
	Name	
FY	101.1	To understand general characters and classification up to
Paper-I		classes of protozoa, structure and reproduction of
Life and		Paramoecium, structure and life cycle of Plasmodium,
Diversity of		parasitic Protozoans of Man (Entamoeba, Trypanosoma,
Animals –		Giardia and Leishmania). Mode of infection and its control.
Non-	101.2	To understand the general characters and classification up to
chordates		classes of porifera, Structure, reproduction and development,
(Protozoa to		Canal system in sponges, General characters and
Annelida)		classification up to classes of Coelenterata, structure and life
(101)		cycle of Obelia, Polymorphism in hydrozoa.
	101.3	To Understand the Helminthes: General characters and
4		classification up to classes, Ascaris: External morphology,
1/		reproductive system and life cycle, <i>Taenia solium</i> : Structure
		and life cycle, Elementary idea of parasitic adaptations in
<b>X-//</b>	- 3	helminthes
	101.4	To Understand the Annelida: General characters and
//		classification up to classes, Leech: Morphology, digestive
A / / /	25	and urinogenital system, Trochophore larva and its
$\mathbf{X} / / / \lambda$		significance, Vermiculture and its importance
FY	102.1	To understand the Atmosphere: Major zones and its
Paper-II		importance, composition of air, Hydrosphere: Global
Environmental		distribution of water, Physico-chemical characteristics of
Biology	_	water, Lithosphere: Types of rocks, formation of soil,
(102)		Renewable and non- renewable energy sources
	102.2	Understand the Ecosystem - Definition and types, Detailed
$M \setminus V = V$		study of pond ecosystem, Food chain, food web and
	디서선	ecological pyramids, Energy flow in an ecosystem, Single
		channel, Y – shape and Universal model
	102.3	To understand the Biodiversity and its conservation, Causes
78//		of reduction of biodiversity, Wildlife conservation acts (1972
4 / /		and 1984), Introductory study of national parks and
		sanctuaries – Tadoba, Kanha, Bharatpur and Nagzira, Hot
4		spots of biodiversity in India
	102.4	To understand the Sources, effect and control measures of air
	1	pollution, Acid rain, green house effect, ozone depletion and
		global warming, Sources, effect and control measures of
		water pollution, Sources effect and control measures of noise
		pollution, Toxic effect of heavy metals (lead, cadmium and
		mercury) – Bioaccumulation and biomagnification
F.Y.	103	Verify theoretical principles experimentally
Zoology		Interpret the experimental data
Practical		Improve analytical skills
Course		Correlate the theory and experiments and understand
		their importance
		then importance

PROGRA	M 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**. Apply the knowledge of basic science, life sciences and fundamental process of plants.
- **PO4**. Apply modern techniques and instruments for Biochemical estimation, Molecular Biology, Biotechnology, Plant Tissue culture experiments, cellular and physiological studies of plants with an understanding of the applications in human life.
- **PO5**. Apply the knowledge gained from the studies for the upliftment of society via 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 particular topic, and evaluate the scientific content of these works
- **PSO3**. Students will be able to compare and contrast the characteristics of the different groups 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 of evolution offers the only scientific explanation for the unity and diversity of life on earth.
- **PSO5**. Students will be able to explain how Plants function at gene, genome, cellular and tissue level.
- **PSO6**. Students will be will be able to relate the physical features of the environment to the structure of populations, communities, and ecosystems.
- **PSO7.** Students will be able to conceive the idea of artificial propagation of plants via vegetativemethods and to find a livelihood via establishing miniature plant nurseries

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

**Subject: Botany** 

Paper	CO Name	Outcome	
FY	101.1	<ul> <li>To understand the nature of viruses,</li> </ul>	
Paper-I		Ultra-structure and economic	
		importance.	

T			
Viruses,			Understand the properties of
Prokaryotes,		]	Mycoplasma and its reproduction.
Algae		• 1	Understand general characteristics and
And		1	reproduction in bacteria.
Biofertilizers	101.2	• '	Γο understand general characteristics and
(101)			classification of algae
			Γο understand the to understand general
			structure of Cyanobacteria and its
			reproduction.
	101.3		Understand life cycle of Chara,
			Vaucheria ,Ectocarpus, and
			Batrachospermum.
			e un activo per maini
	101.4	•	Γο understand Scope and importance of
V .			Biofertilizers.
4/	C.		Understand the microbes used in
///	17.7	92	piofertilizers.
FY	102.1	/	Understand the Characteristics of fungi.
Paper-II	die N	F 77 0458 W	Understand the reproduction and life
Fungi, Plant		Mr. II.	cycle of Albugo, Mucor ,Puccinia and
Pathology, Liche	6	-	Cercospora.
ns, Bryophyta	102.2		Pathogen study, control and causes of
and Mushroom	-3	5	diseases: leaf curl of papaya, Citrus
Cultivation (102)		Principle and the second	canker and red rot of sugarcane
	102.3		Understand classification and general
	(400	THE PERSON NAMED IN	characteristics of Bryophyta.
		No. 3 Pro- California	Life history of <i>Marchantia</i> , <i>Anthoceros</i>
			and Funaria
<b>本</b> // オ		TIE	गांतांगाग्य / 🔏
1 / (1	नता न	1 9	Γο Study the nutritional and medicinal
			values of edible and non-edible
XII	•		mushrooms. Technology of mushroom
7//	13		cultivation
	102.4	71	TH /
F.Y.	103		Study the fungal genera.
Chemistry			Study the lichens, thallus structure and
Practical Course			types of lichens.
			Plant pathological study.
			Study of bryophytes and identification of
	,		its characteristics.
			Preparation of mushroom beds.
		•	reparation of musimooni beas.

# **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**

IkfgR; Isrw

- /;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	201.1	<ul> <li>To make student understand different organic compounds and the concept structure and bonding in organic compounds.</li> <li>Understand mechanism of organic reaction.</li> </ul>
(201)	201.2	<ul> <li>Understand the concept of stereochemistry of organic compounds.</li> <li>To make the structure of Geometrical isomerism and conformational isomerism.</li> </ul>
*//	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
K 4	201.4	<ul> <li>Basic of the alkane and alkynes with respect to their chemical point of view.</li> <li>To understand the aromaticity of organic compounds.</li> </ul>
F.Y. Pape-II Physical Chemistry (202)	202.1 तमसो	<ul> <li>To understand the thermodynamics of chemical reactions.</li> <li>Understand free energy functions like work function, Gibb's free energy etc.</li> </ul>
*	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	<ul> <li>Verify theoretical principles experimentally</li> <li>Interpret the experimental data</li> <li>Improve analytical skills</li> <li>Correlate the theory and experiments and understand their importance</li> </ul>

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,	201.1	To understand the concept of linear and angular S.H.M., Damped harmonic oscillator
Kinetic theory of gases and Thermodynamics	201.2	To understand the concept of Forced oscillation with one degree of freedom and kinetic theory of gasses.
(201)	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,	202.1	To understand Newton's laws of gravitation and the concept of Gravitational self-energy of the galaxy
Astrophysics, Magnetism and Magnetostatics	202.2	<ul> <li>Know the constituents of universe (Solar system, Stars, Galaxies) and some physical aspects of universe</li> </ul>
(202)	202.3	• To understand the concepts of Dimagnetism, Paramagnetism and Ferromagnetism and their applications
25	202.4	<ul> <li>To understand the Concept of magnetic field and to study various laws of magneto static and their applications.</li> </ul>
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	Outcome
-	Name	
FY	201.1	Understand the concept of Solid Geometry
Paper-I	202.2	Identify and solve the problems on Differential equations
201		of first order
Geometry,	203.3	Understand the Higher order linear differential equations
Differential and		with constant coefficient
Difference	204.4	Understand the basic concept of Difference equation
<b>Equations</b>		-
FY	202.1	Students learn the concept of Vector differentiation and
Paper-II		Line Integral
202	202.2	Learn the evaluation of area by double Integral
	202.3	Apply integration to evaluate over surface and volume

202.4	Evaluate Improper Integrals also study the gamma and
	Beta functions

#### **Department of Zoology** Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: First/Second

Subject: Zoology
After the successful

After the successful	completi	on of the course students will be able to-
Paper	CO	Outcome
	Name	V * 4
FY	201.1	To understand the, Arthropoda: General characters
Paper -I		and classification up to classes, Cockroach: Mouth
Life and		parts, digestive system and reproductive system,
Diversity of		Insects as Vectors: Mosquito, Housefly, Sandfly, Tse-
Animals –		Tse fly, Study of crustacean larvae : Nauplius, Zoea
Nonchordates		and Megalopa; Social behavior in honey bees
(Arthropoda to	201.2	To understand the Mollusca: General characters and
Hemichordata)	. 81	classification up to classes, <i>Pila</i> : Morphology,
(201)		digestive, respiratory and reproductive system, Pearl
. // /-		formation in Mollusca, Molluscan larvae : Glochidium
1// 2	6	and Veliger
	201.3	To understand the Echinodermata: General characters
		and classification up to classes, Asterias: External
II J		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
XII J		digestive system, Reproduction in Balanoglossus,
T / / (1	441	Tornaria larva, Affinities of Balanoglossus
F.Y.	202.1	To understand Ultrastructure of prokaryotic and
Paper-II		eukaryotic cell, Plasma membrane: Structure- Fluid
Cell Biology	7	Mosaic Model and functions, Endoplasmic reticulum:
(202)		Types, ultrastructure and functions, Golgi complex:
		Ultrastructure and functions
7-1	202.2	To understand Ultrastructure of mitochondria,
		Oxidative phosphorylation – Glycolysis and Kreb's
-	_	cycle, Electron Transport Chain and terminal
		oxidation, Lysosome: Structure, polymorphism and
	4	functions
	202.3	To understand the Nucleus: Ultrastructure of nuclear
		membrane, Structure and functions of nucleolus,
		Chromosome: Structure and types, structure of
		nucleosome, Giant chromosomes: Lamp-brush and
		polytene chromosome
	202.4	To understand the Ribosome: Structure, types, Lake's
		model and functions, Somatic cell division: Cell cycle
		and Mitosis, Meiosis (different phases and
		significance), synaptonemal complex, Cellular ageing
		and cell death, Elementary idea of cancer and its
		causative agents

F.Y. Zoology Practical course	203	<ul> <li>Verify theoretical principles experimentally</li> <li>Interpret the experimental data</li> <li>Improve analytical skills</li> <li>Correlate the theory and experiments and understand their importance</li> </ul>
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#### **Department of Botany** Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: First/Second

Subject: Botany
After the success

After the successfu	ter the successful completion of the course students will be able to-		
Paper	CO	Outcome	
<b>X</b>	Name		
FY	201.1	<ul> <li>To make student understand fossils,</li> </ul>	
Paper -I		Pseudofossils, and its importance.	
Paleobotany,		<ul> <li>Knowledge about types of fossils.</li> </ul>	
Pteridophytes,	A	<ul> <li>Details of Geological time scale.</li> </ul>	
Gymnosperms	_	<ul> <li>Differentiation among the types of fossil.</li> </ul>	
and Soil	6	Study the general characteristics of	
Analysis (201)	201.2	Pteridophytes and its classification.	
1 10		• Life history of Selaginaella. And Equisetum.	
	201.3	Classify the Gymnosperms, its characteristics	
	2010	and economic importance.	
		Understand the fossil gymnosperm.	
		<ul> <li>Study the life cycle of Cycas and Pinus</li> </ul>	
	201.4	Skill development and soil analysis.	
<b>本</b> // オ		Identification of types of soil on the basis of	
1 / / / /	4/4	its color and texure.	
\ \ \			
XII	4	Study the physical properties of soil.  Lindagates of the pH of soil and pitus and all the pH of soil and pitus	
7		Understand the pH of soil and nitrogen  ovallability in it.	
F.Y.	202.1	availability in it.	
Pape-II	202.1	Study the morphological characteristics of	
Morphology of		plants.	
Angiosperms	1	Identification of morphological characters of	
and Floriculture		plants.	
(202)	4	Study the modification occure in root, stem and	
	202.2	leaf.	
	202.2	Study the reproductive morphology.  God and the second control of the second contro	
		Study the types of inflorescence.	
	205.5	Study the calyx, corolla and Androecium.	
	202.3	Understand the structure of gynoecium.	
		Study the fruit and its types.	
	202.4	<ul> <li>Develop the skills of floriculture and</li> </ul>	
		cultivation	
		Method of cultivation.	
<b>F.Y.</b>	203	<ul> <li>Study of different root and stem modification</li> </ul>	
Botany		and branching patterns.	

Practical course	Study the types of leaf and its
	phyllotaxy, venation and modification.
	<ul> <li>Understand the flower structure and</li> </ul>
	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	Outcome
	Name	
S.Y Paper-I Inorganic	301.1	Understand the concept of molecular orbital theory and VSEPR theory.
Chemistry (301)	301.2	Understand the properties of d and f block elements.
<b>*</b> // <i>E</i>	301.3	<ul> <li>Understand the role of nonaqueous solvents.</li> <li>Understand concept of errors and evaluation in chemical analysis.</li> </ul>
	301.4	Understand the concept of chemistry of Lanthanides and Actinides serious.
S.Y. Paper-II Organic	302.1	Understand the structure and chemical bonding in aryl, alkyl halides, aldehydes.
Chemistry (302)	302.2	Understand the structure and chemical bonding in alcohols and phenols.
*	302.3	Understand the nomenclature, structure of the carbonyl group, synthesis of aldehydes and ketones
	302.4	Understand chemical reaction of carboxylic acids and its derivatives.
S.Y. Chemistry Practical Course	303	<ul> <li>Verify theoretical principles experimentally</li> <li>Interpret the experimental data</li> <li>Improve analytical skills</li> <li>Correlate the theory and experiments and understand their importance</li> </ul>

#### 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	301.1	• Understand the concept of group and phase velocities, formation of standing waves and diagrammatic introduction of human ear and its responses.
Power Supply (301)	301.2	<ul> <li>Understand the working of transducers and their characteristics and the concept acoustic and its applications.</li> </ul>
	301.3	<ul> <li>Understand the production and applications of ultrasonic waves.</li> </ul>
4	301.4	<ul> <li>Understand the concept of voltage regulation and working of half, full and bridge rectifier.</li> </ul>
Paper 2: Physical Optics and Electromagnetic	302.1	<ul> <li>Understand the concept of interference of light through thin film</li> <li>Apply the concept of interference of light through thin film in wavelength determination.</li> </ul>
(302)	302.2	• Understand the concept of diffraction, Resolving Power of grating and Rayleigh's criterion for resolution.
*// 8	302.3	• Understand the concept of polarization and double refraction
Farg	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	Outcome
_	Name	
SY	301.1	Students understand Mean Value theorem
Paper-I	301.2	Learn about an envelope of a family of curves in the
301		plane and study the Langranges Multiplier method
Advanced	301.3	Understand the concept of sequence
Calculus,	301.4	Use Tests for convergence
Sequences &	301.4	Ose Tests for convergence
Series		
SY	302.1	Understand the concept of Special Functios(Bessels and
Paper-II		Legendres function)
302	302.2	Students understand the concept of Laplace Transform
Differential		and solve the problems
<b>Equation and</b>	302.3	Applications of Laplace Transform & Fourier Transform

Group	302.4	Students develop the knowledge in group theory
Homomorphism		

#### Department of Zoology Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Second/Third

**Subject: Zoology** 

After the successful	ul compl	etion of the course students will be able to-
Paper	CO	Outcome
	Name	
S.Y	301.1	Understand the Protochordata : General characters and classification
Paper-I	$\times$	up to order, <i>Herdmania</i> : Structure, digestive system, ascidian
Life and		tadpole and retrogressive metamorphosis, <i>Amphioxus</i> : Structure,
Diversity of		digestive system, circulatory system, sense organs and
Animals -		protonephridia, Agnatha: General characters of Cyclostomata
Chordates		(Petromyzon and Myxine)
(Protochordata	301.2	Understand the Pisces: Salient features of Chondrichthyes and
to Amphibia)	. 8	Osteichthyes, Origin of paired fins in fishes, Migration and
(301)		Accessory respiratory organs in fishes, Amphibia : General
. / / /		characters and classification up to order, Parental care and Neotony
<b>1</b> / / C	26	in Amphibia
A I I I S	301.3	Understand the Gametogenesis and type of eggs, Fertilization of
1 / 10		egg, Post fertilization development of fish, Types of scales of fishes,
		Development of placoid scales
/ (C	301.4	Understand the Frog Embryology - Cleavage, blastulation and
		gastrulation, Fate map, Morphogenetic movements in gastrula of
1 1		frog, Development of respiratory organs in frog, Development of
1 1		Aortic arches of frog
S.Y.	302.1	Understand the Mendelian Principles- Dominant recessive
Paper-II	H	relationships, Mendelian laws, Interaction of genes- Epistasis -
Organic		dominant and recessive, codominance, incomplete dominance,
Zoology		Quantitative genetics – Polygenic traits, inbreeding and
(302)		outbreeding, hybrid vigor, Extracellular genome – Presence and
		functions of mitochondrial DNA, plasmids
	302.2	Understand the concept of Cytoplasmic inheritance- <i>Kappa</i> particles
7		in <i>Paramecium</i> , CO2 sensitivity in <i>Drosophila</i> , milk factor in mice,
		Linkage and crossing over – Basic concepts of linkage, types and
	1	theories, Concepts of genes – Cistron, muton and recon, Genetic
	X	disorders in human beings – Haemoglobin disorders – Thalassemia
	**	and Sickle cell anemia. Metabolic disorder: Phenylketonurea
	302.3	Understand the concept of Sex determination – ZZ, XY, XO, ZW
		pattern, Sex determination in <i>Drosiphila</i> – Genic balance theory,
		Environmental sex determination in <i>Bonellia</i> , Chromosomal
		aberrations: addition, deletion, duplication and inversion, Gene
		mutations- Spontaneous and induced mutations, mutagenic agents,
		Disorders related to chromosomal number- Turner syndrome,
		Klinefelter syndrome and Down syndrome
	302.4	Understand the Lethal genes – Concepts and consequences,
		Population genetics: Basic concepts in population genetics, Hardy
		Weinberg equilibrium and its significance, Genetic counseling –
		Introduction, purpose, hereditary diseases and disorders, Applied

		genetics - DNA fingerprinting , amniocentesis, sperm banks, karyotyping			
S.Y. Zoology Practical Course	303	<ul> <li>Verify theoretical principles experimentally</li> <li>Interpret the experimental data</li> <li>Improve analytical skills</li> <li>Correlate the theory and experiments and understand their importance</li> </ul>			

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

Course Name: B. Sc.

Year/Semester: Second/Third

**Subject: Botany** 

		etion of the course students will be able to-
Paper	CO	Outcome
	Name	CHANGE II
S.Y	301.1	• Understand the study of angiosperms, Fossil
Paper-I	_	angiosperms, Angiosperms taxonomy.
		<ul> <li>Understand the nomenclature.</li> </ul>
A / / /	26	<ul> <li>Study the trends in taxonomy.</li> </ul>
Botany		enterings and an artist and artist artist and artist and artist artist and artist artist and artist artist and artist a
(301)	301.2	• Understand the classification system of Benthem
		and Hooker, Engler and Prantle.
(0)	301.3	<ul> <li>Study the types of pollinaton and its significance</li> </ul>
K   4		• Study the structure of anther, pollen grain and male
		gametophyte development.
		• Study the types of ovules and female gametophyte.
<b>∠</b> \ \ _		Understand the fertilization process.
	301.4	Study the skills of landscaping and gardening.
S.Y.	302.1	Understand anatomical features of plants and its
Paper-II		organs.
Angiosperm		• Study the tissue its types and functions.
anatomy and	302.2	Study the primary and secondary growth I stem
Horticulture		and root.
(302)	302.3	<ul> <li>Study the periderm growth rings, sap heartwood,</li> </ul>
		leaf anatomy.
		<ul> <li>Study the Senescence and Abscission.</li> </ul>
	302.4	Study the techniques of horticulture, methods of
		propagation.
		<ul> <li>Learn the technique of bonsai preparation.</li> </ul>
S.Y.	303	Study the simplest and complex tissue from
Botany		permanent micro-preparation.
Practical		<ul> <li>Identification of types of vascular bundle.</li> </ul>
Course		Anatomy of Dicot and Monocot stem with
		temporary or double stained.
		Study the internal structure of dicot and monocot
		leaf.

# **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	СО	Outcome
- up u	Name	
S.Y. Paper-I Inorganic Chemistry (401)	401.1	Understand the properties of coordination compounds. Chelates: classification and their application and valance bond theory of complexes.
(401)	401.2	<ul> <li>Understand the concept of isomerism in coordination compounds. Concept of oxidation and reduction and balancing of redox reaction.</li> </ul>
*//	401.3	<ul> <li>Understand the concept of colorimetry and spectrophotometry.</li> <li>Understand the concept of separation technique like chromatography ion exchange and solvent extraction.</li> </ul>
<b>X</b> // <i>k</i>	401.4	<ul> <li>Understand the concept of inorganic polymers.</li> </ul>
S.Y. Paper-II Physical Chemistry (402)	402.1	<ul> <li>Understand solid state and their classification and their laws.</li> <li>To understand the concept of determination of crystal structure.</li> </ul>
402)	402.2	<ul> <li>Understand electrochemistry of reversible and irreversible cells.</li> <li>Understand the concept of electrical transport and transport number.</li> </ul>
*//	402.3	<ul> <li>Use spectroscopy for chemical analysis.</li> <li>Understand types of spectroscopy.</li> </ul>
*	402.4	Understand the concept of quantum chemistry and wave function.
S.Y. Chemistry practical Course	403	<ul> <li>Verify theoretical principles experimentally</li> <li>Interpret the experimental data</li> <li>Improve analytical skills</li> <li>Correlate the theory and experiments and understand their importance</li> </ul>

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

Course Name: B. Sc.

Year/Semester: Second/Fourth

**Subject: Physics** 

Paper	CO	Description

Paper 1: Solid State Physics, X-ray and Laser	401.1	Understand the basic concept of crystallography, find various lattice parameters, find Miller Indices of the given plane and draw planes from the set of Miller Indices.
(401)	401.2	<ul> <li>Understand main feature of continuous X-ray spectra and Characteristics X-ray spectra,</li> <li>Apply Moseley's law to determine wavelength of X-ray.</li> </ul>
	401.3	<ul> <li>Understand the basic concept of solid state physics.</li> <li>Apply Bragg's law for wavelength determination and simple cubic structure determination.</li> </ul>
	×	• Calculate Miller indices of the given plane and identify the orientation of the plane from the given set of Millar indices.
*/	401.4	<ul> <li>Understand the concepts of LASER emission.</li> <li>Understand the construction and working of various types of LASER.</li> </ul>
Paper 2: Solid State	402.1	Understand the construction and working and characteristics of various solid state devices.
Electronics, and Molecular	402.2	<ul> <li>Understand the construction and working and characteristics of various FETs.</li> </ul>
Physics (402)	402.3	Understand the concept molecular physics.  H. J. G. D. D.
Physics Practical (403)	402.4	<ul> <li>Understand and apply the Raman spectroscopy.</li> <li>Apply and demonstrate the theoretical concepts of Physics and to develop scientific attitude.</li> </ul>

#### 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	401.1	Understand the concept of ordinary Differential Equations							
Paper-I	A	in more than two variables							
401	401.2	Use the methods to solve the linear and nonlinear partial							
Partial	- 5	differential equations of first order							
Differential	401.3	Understand the concept of Higher Partial Differential							
<b>Equations &amp;</b>		Equations							
Calculus of Variation	401.4	Find the distance between the curves and understand the concept of Eulers differential equation							
SY	402.1	Students learn about Coplanar Forces, Virtual Work and							
Paper-II		Catenary							
402	402.2	Understand the velocity, Acceleration and simple							
Mechanics		harmonic Motion							
	402.3	Understand the concept of Lagranges Equations of motion							

402.4	Learn	the	problem	of	two	bodies	moving	under	the
	influer	ice o	f a mutual	cei	ntral t	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-

		tion of the course students will be able to-		
Paper	CO	Outcome		
	Name	Y X Y		
S.Y.	401.1	Understand the Reptilia- Classification based on		
Paper-I	K	temporal vacuities, Poison apparatus, biting mechanism		
Life and Diversity	1	, snake venom and its importance, Aves – Comparison		
of Animals –		of Ratitae and Caranitae, Flight adaptations and		
Chordates		migration, Mammals – General characters of		
(Reptilia, Aves		Prototheria, Metatheria and Eutheria		
and Mammals)	401.2	Understand the Modern theories of evolution:		
(401)	4	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		
110		and heart in Reptiles, Birds and Mammals, Structure of		
KIG		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,		
<b>K</b>    7		blastulation and gastrulation, Fate map, Morphogenetic		
1 / (1)		movements in gastrula of frog, Development of		
\ \		respiratory organs in frog, Development of Aortic		
~		arches of frog		
S.Y.	402.1	Understand the DNA: Structure of DNA, forms of		
Paper-II	/	DNA, properties of DNA, DNA as a genetic material,		
Molecular		RNA: Structure of RNA, types of RNA, RNA as a		
Biology and		genetic material, Prokaryotic and eukaryotic gene		
Immunology		structure, Recombination in Bacteria: Bacterial		
(402)		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		
		VI TE TO TEST		

	402.3	Understand the Concepts of immunity – Innate and acquired immunity, organs of the immune system, Antigen - Structure, diversity, functions and types of antigen, Antibody- Structure, types and functions, Antigen-antibody interaction – Precipitation and agglutination
	402.4	Understand the Types of immune response: B cell response (antibody mediated), T cell response (cell mediated), Complement system: Basic concepts of complement cascades, classical, alternative and MBL pathways, implications of complement system in immune defense, Cytokines- General account on cytokines, Cytokine related diseases, Autoimmunity and immunodeficiencies- Autoimmune diseases and their treatment, AIDS and other immunodeficiencies
S.Y. Zoology practical Course	403	<ul> <li>Verify theoretical principles experimentally</li> <li>Interpret the experimental data</li> <li>Improve analytical skills</li> <li>Correlate the theory and experiments and understand their importance</li> </ul>

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

Course Name: B. Sc.

Year/Semester: Second/Fourth

**Subject: Botany** 

After the successful	comple	tion of the course students will be able to-
Paper	CO	Outcome
	Name	
S.Y.	401.1	<ul> <li>Understand the brief account of cell theory.</li> </ul>
Paper-I		Comparison between eukaryotic and
Cell biology,		prokaryotic cell.
Plant Breeding,	7	Structure and function of cell wall,
Evolution, and		Endoplasmic reticulum, Golgi complex, plasma
Technology (401)		membrane, Ribosome and Vacuole.
	401.2	<ul> <li>Understand the structure and functions of</li> </ul>
		chloroplast, Mitochondria and Nucleus.
		<ul> <li>Understand the chromosome morphology,</li> </ul>
,		Molecular organization of chromosomes.
		<ul> <li>Understand the sex chromosomes and cell</li> </ul>
		division process.
	401.3	<ul> <li>Understand plant breeding, methods of plant</li> </ul>
		breeding.
		<ul> <li>Understand the biostatistics and determine the</li> </ul>
		Mean, Mode, Median.
		<ul> <li>Understand the evolution process.</li> </ul>
	401.4	<ul> <li>Understand the seed development technology</li> </ul>
		which is used to increase a commercial value of
		seeds.
S.Y.	402.1	<ul> <li>Understand the principle of Mendelism.</li> </ul>

		T T T T T T T T T T T T T T T T T T T
Paper-II		<ul> <li>Understand the linkage and crossing over</li> </ul>
		process.
(402)	402.2	Understand the Mutation , chromosomal
		aberrations and variation in chromosome
		number.
		Understand the DNA damage and repair
		process.
	402.3	<ul> <li>Study the concept of DNA and RNA.</li> </ul>
		<ul> <li>Understand the concept of gene, genetic code.</li> </ul>
		• Understand the process of protein synthesis and
		regulation of gene interaction.
	402.4	Study the skill development.
1		<ul> <li>Develop the skills related with plant nursery.</li> </ul>
		<ul> <li>Understand the nursery manaegment</li> </ul>
4		techniques
S.Y.	403	Study the Mendel's law of segregation with
Botany		help of color beads.
practical Course		Prove the Mendel's law of independent
*//	2	assortment.
7//		<ul> <li>Study the different method of vegetative</li> </ul>
1/ /		propagation.
1//	6	Study the method of soil sterilization for plant
		nursery.
		nuiscry.

# SEMESTER V Department of Chemistry Course Outcomes (COs)

Course Name: B. Sc.

Year/Semester: Third/Fifth

**Subject: Chemistry** 

Paper	CO Name	Outcome
T.Y. Paper-I Organic	501.1	<ul> <li>Understand the concept of organic compounds of nitrogen and amines.</li> </ul>
Chemistry (501)	501.2	Understand heterocyclic compounds and their structure.
	501.3	<ul> <li>Understand quantitative analysis: Estimation of carbon, hydrogen and nitrogen etc.</li> <li>Understand reaction and structure of organometallic compounds.</li> </ul>
	501.4	<ul> <li>To study Spectroscopy.</li> <li>To understand Electromagnetic and Infrared absorption spectroscopy</li> </ul>
T.Y. Paper-II	502.1	<ul> <li>Understand electrochemistry and various types of cells.</li> <li>Understand types of reversible electrodes.</li> </ul>

Physical Chemistry (502)	502.2	Understand quantum chemistry and molecular orbital theory.
(302)	502.3	<ul><li>Understand the concept of Photochemistry.</li><li>To study Raman Spectroscopy</li></ul>
	502.4	To understand colligative properties and macromolecules.
T.Y. Chemistry Practical Course	503	<ul> <li>Verify theoretical principles experimentally</li> <li>Interpret the experimental data</li> <li>Improve analytical skills</li> <li>Correlate the theory and experiments and understand their importance</li> </ul>

# **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-

After the successful	completic	on of the course students will be able to-
Paper	CO	Description
Paper 1: Atomic Physics, Free Electron Theory	501.1	<ul> <li>Understand Vector atom Model, the concept of space quantization, Zeeman Effect and L-S and J- J coupling.</li> </ul>
and Statistical Physics (501)	501.2	Apply free electron theory and band theory of solid to classify solids as conductor, semiconductor and insulator.
×// ਰਾ	501.3	• Understand and apply Maxwell-Boltzmann statistics
/// a.	501.4	• Understand and apply Bose-Einstein statistics and Fermi-Dirac statistics.
Paper 2: Quantum Mechanics, Nanomaterials and	502.1	• Understand the basics of quantum mechanics and apply it to explain the phenomena like black body radiation and Compton Effect.
Nanotechnology (502)	502.2	• Understand and apply Schrodinger's equation to free particle in a one and three dimension.
	502.3	<ul> <li>Understand the basics of nanotechnology.</li> </ul>
7	502.4	• Understand the synthesis and characterization techniques of nano materials.
Physics Practical (503)	503	<ul> <li>Apply and demonstrate the theoretical concepts of Physics and to develop scientific attitude.</li> </ul>

# **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	Outcome
_	Name	
TY	501.1	Understand the concept of Fourier series
Paper-I	501.2	Understand the concept of Riemann-Stieltjes integral
501	501.3	Understand the concept of Analytics Functions
Analysis	501.4	Students learn about Mobius Transformation
TY	502.1	Students deal with the definition, properties and
Paper-II		examples of countable and uncountable sets and
502		understand the metric space
Metric spaces,	502.2	Understand the concept of Completeness, Compactness
Complex		and Connectedness
integration &	502.3	Understand the concept of Ring
Algebra		Analyze and demonstrate examples of ideals and
4/		quotient rings
	502.4	Understand the basic concept of Complex Integration
4//	~\alpha	Evaluate integrals along a path - directly from the
$\pi$ //	8/	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** 

Atter the succe	SSIUI COI	mpletion of the course students will be able to-
Paper	CO	Outcome
X I I	Name	मा मा ज्यानामाय । 🔏
T.Y.	501.1	Understand the Enzymes – Distribution and chemical nature of
Paper-I		enzymes, General properties of enzymes, Classification of enzymes,
General		Factors affecting enzyme activity
Mammalian	501.2	Understand the Structure and functions of digestive glands -
Physiology –		(Salivary, Gastric, Intestinal, Liver and Pancreas), Gastrointestinal
I		hormones, Digestion and absorption of proteins, carbohydrates and
(501)		lipids, Vitamins- Fat soluble and water soluble vitamins; Sources,
		deficiency and diseases
	501.3	Understand the Respiratory pigments - Types, distribution and
		properties, Mechanism of Respiration, Transport of O2 and CO2,
		Respiratory disorders and effects of smoking
	501.4	Understand the Composition and functions of blood, Blood clotting
		– Intrinsic and extrinsic factors, blood groups and <i>Rh</i> factor, Cardiac
		cycle, E.C.G. and Blood pressure
T.Y.	502.1	Understand Site selection and construction ,Pre stocking and post
Paper-II		stocking manangement of nursery, rearing and stocking ponds,
Physical		Breeding of fishes by bund and Chinese hatcheries. Induced
Zoology		breeding by hypophysetion. New generation drugs in induced
(502)		breeding, Brief study of freshwater aquaculture system –
		Polyculture, cage culture, sewage fed fish culture, integrated fish
		farming, Fish products and byproducts, Fish preservation

	502.2	Understand the Prawn culture and Pearl culture, Fabrication and
		setting up of aquarium and its maintenance, Breeding of aquarium
		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 – <i>Musca nebulo</i> , Stable fly –
		Stomoxys calcitrans
	502.4	Understand the Sericulture- Types of Silkworm. Life cycle and
		rearing of mulberry silkworm, <i>Bombyx mori</i> , Life cycle and rearing
		of non mulberry silkworm (Tasar), Antheraea mylitta; Brief idea of
5.4		coccon processing for silk fabric - coccon boiling, reeling, rereeling,
<b>X</b>		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 -
1		Life cycle, Lac processing, Lac products and Economic Importance
T.Y.	503	1 10011
Zoology	303	Verify theoretical principles experimentally
Practical	DY	Interpret the experimental data
		Improve analytical skills
Course	0	Correlate the theory and experiments and understand their
		importance
	5	

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

Course Name: B. Sc.

Year/Semester: Third/Fifth

**Subject: Botany** 

Paper	CO	Outcome
	Name	
T.Y.	501.1	<ul> <li>Understand water relation and its significance.</li> </ul>
Paper-I	1	<ul> <li>Understand the Osmosis, Diffusion, Osmotic Pressure.</li> </ul>
Plant		<ul> <li>Understand the ascent of sap.</li> </ul>
physiology,	W.F	<ul> <li>Understand the transpiration, phloem transport and</li> </ul>
Mineral		mineral uptake.
Nutrition	501.2	Understand the photosynthesis process, photosynthetic
and		pigments.
Hydrophoni		Understand the light and dark reaction of
cs (501)		photosynthesis.
		<ul> <li>Understand the respiration and its mechanism.</li> </ul>
		<ul> <li>Understand the fermentation process.</li> </ul>
	501.3	Understand the nitrogen fixation by symbiotic and
		Non-Symbiotic mechanism.
		Study the pant movements and photoperiodism.
		<ul> <li>Study the circadian rhythms and Biological Clock.</li> </ul>

	501.4	<ul> <li>Understand the mineral nutrition, source and types.</li> </ul>
		<ul> <li>Study the role and deficiency symptoms</li> </ul>
		Macronutrients and Micronutrients.
		<ul> <li>Study the hydroponics, advantages and disadvantages</li> </ul>
		of hydroponics.
T.Y.	502.1	Understand the concept of Ecology.
Paper-II		• Study the climatic, Edaphic and Physiographic factors.
Plant	502.2	Study the ecosystem, components of Ecosystem.
Ecology and		Understand the food chain, food web and ecological
Organic		pyramids.
Farming		<ul> <li>Study the Autecology and Synecology.</li> </ul>
(502)	502.3	Understand the process of succession.
		• Study the plant adaptations.
		Study the Biogeochemical cycles.
	502.4	Develop the skills of organic farming.
*		<ul> <li>Understand the methods of recycling of biodegradable</li> </ul>
1/		kitchen, agriculture and industrial waste.
- A /		Study to prepare organic manure.
T.Y.	503	Determining the Frequency, Density, and Abundance
Botany	./>	of community by Quadrate Method.
Practical		<ul> <li>Determining the homogeneity of vegetation by</li> </ul>
Course	20	Raunkier's frequency.
$\mathbf{A} / / /$		Study the frequency of herbaceous species in
1/1/	0	grassland to compare the frequency distribution with
		Raunkier's standard frequency diagram.
K   (F		Study the soil profile of different locations near by
		area.
		<ul> <li>Study the salinity of different water samples.</li> </ul>
		The state of the s

# SEMESTER VI Department of Chemistry Course Outcomes (COs)

Course Name: B. Sc. Year/Semester: Third/Sixth Subject: Chemistry

Paper	CO	Outcome
	Name	<b>* V *</b>
T.Y. Paper-I Inorganic Chemistry (601)	601.2	<ul> <li>Understand Metal ligand bonding in Transition Metal complexes.</li> <li>Electronic spectra of Transition Metal Complexes.</li> <li>Understand Magnetic Properties of Transition metal Complexes.</li> <li>To study thermodynamic and kinetic aspect of metal</li> </ul>
	(01.2	complexes.
	601.3	<ul> <li>Understand organometallic chemistry.</li> </ul>

		<ul> <li>Understand properties and structure of metal carbonyls.</li> </ul>
	601.4	<ul> <li>To study Bio-organic chemistry</li> <li>Understand the concept of s Hard and Soft acids and bases.</li> </ul>
T.Y. Paper-II	602.1	Understand NMR Spectroscopy
Organic Chemistry (602)	602.2	<ul> <li>Understand Organic Synthesis via Enolates.</li> <li>Carbohydrates: classification, reaction and mechanisms.</li> </ul>
	602.3	<ul> <li>Understand Amino acids, peptides and nucleic acids.</li> <li>To study Fats, oil and detergents.</li> </ul>
¥	602.4	<ul> <li>Understand synthetic dyes, synthetic drugs, synthetic polymer.</li> </ul>
T.Y. Chemistry Practical Course	603	<ul> <li>Verify theoretical principles experimentally</li> <li>Interpret the experimental data</li> <li>Improve analytical skills</li> <li>Correlate the theory and experiments and understand their importance</li> </ul>

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

Course Name: B. Sc.

Year/Semester: Third/Sixth

**Subject: Physics** 

Tittel the successiu	Compic	non 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	<ul> <li>Understand the concept of nuclear physics.</li> </ul>
	601.3	<ul> <li>Apply the concept of nuclear physics to explain various decay processes.</li> </ul>
	601.4	<ul> <li>Understand the Principle, Construction and working of different bio instruments.</li> </ul>
Paper 2: Electronics, Fiber	602.1	<ul> <li>Understand the operations and applications of operational amplifiers.</li> </ul>
Optics, Communication and Digital	602.2	• Understand the various basic structures of optical fibers and basic concept involved in propagation of light waves through optical fiber.
Electronics (602)	602.3	• Understand the concept of amplitude modulation and frequency modulation.
	602.4	<ul> <li>Understand various number systems.</li> </ul>
		<ul> <li>Construct the truth tables for various logic gates.</li> </ul>

		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	Outcome
_	Name	
TY	601.1	Understand the concept of Group Automorphism
Paper-I	601.2	Understand definition and examples of vector spaces
601	601.3	Learn about algebra of linear transformation
Abstract	601.4	Find range, rank, kernel and nullity of matrix and also
Algebra	4	study about Inner product spaces
TY	602.1	Study the Newtonian Mechanics and understand the
Paper-II		concept special theory of relativity
602	602.2	Learn the Lorentz transformation and consequences
Special Theory	602.3	Understand the concept of Tensors and Space –Time
of Relativity		structure
KIIG	602.4	Study the Mass Energy Equivalence, Energy momentum
		Tensor and Maxwell's Equation of Electromagnetic
		theory in Vacuum

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Course Name: B. Sc.

Year/Semester: Third/Sixth

**Subject: Zoology** 

Paper	CO	Outcome
	Name	
T.Y.	601.1	Understand the Types of neurons, E.M. structure of
Paper-I	**	neuron, Conduction of nerve impulse, Ultrastructure of
General		striated muscle, Sliding filament theory of muscle
Mammalian		contraction, Properties of muscles (Twitch, Tetanus,
Physiology - II		Tonus, Summation, All or None Principle, Muscle
(601)		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

		mounthy world aland Ctury of your and from the age of adverse-1
		parathyroid gland, Structure and functions of adrenal
	(01.4	gland, Structure and functions of pineal gland
	601.4	Understand the Oestrous and menstrual cycle, Male and
		female sex hormones, Causes of infertility in male and
		female, Contraceptives – Mechanical and hormonal; <i>In-</i>
		vitro fertilization
<b>T.Y.</b>	602.1	Understand the Concepts of sterilization: Filtration,
Paper-II		autoclaving, dry heat sterilization, wet sterilization and
Applied		radiation, Separation of biomolecules: Centrifugation
Zoology –II		(Sedimentation, density gradient); Chromatography (
(Biotechniques,		Elementary idea of thin layer, gel filtration and ion
Microtechnique,		exchange - Principles and applications),
Biotechnology,		Electrophoresis: Agarose gel electrophoresis, SDS-
Bioinformatics	X	PAGE, Principles of colorimeter and
and		spectrophotometers
Biostatistics)	602.2	Understand the concept of Fixation, dehydration,
(602)		clearing, embedding & section cutting, Difficulties
		encountered during section cutting (causes and
		remedies), Double staining with Haematoxylin and
7//	. 3	Eosin, Histochemical staining techniques for
		carbohydrates (Periodic acid schiff), proteins (Mercury-
. // /		bromophenol blue) and lipids (Sudan black-B)
1/ A	602.3	Understand the Basic concepts in recombinant DNA
X// /S		technology, Gene isolation method- Shotgun cloning,
1 / ! !		Isolation of gene- DNA manipulation enzymes:
	II.	Nucleases, ligases, polymerases, Basic concepts of
A (C.		cloning vectors and splicing: Insertion of DNA and
		ligation using blunt ends, cohesive ends, Cloning
		vectors, Application of biotechnology: Insulin and
		vaccine production
$\bowtie \setminus \setminus \setminus$	602.4	Understand the Bioinformatics: Definition, Basic
	144	concepts in bioinformatics, importance and role of
		bioinformatics in life sciences, Bioinformatics
		databases- introduction, types of databases, Nucleotide
X-\\		sequence databases, Elementary idea of protein
		databases, Biostatistics - Tabulation of data,
		presentation of data, sampling errors, mean, mode,
4		median, probability, standard error and standard
		deviation
T.Y.	603	Verify theoretical principles experimentally
Zoology	X	Interpret the experimental data
Practical	5	Improve analytical skills
Course		<ul> <li>Correlate the theory and experiments and</li> </ul>
		understand their importance

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

Course Name: B. Sc.

Year/Semester: Third/Sixth

**Subject: Botany** 

Paper	CO	Outcome
	Name	
Biochemistry,	601.1	<ul> <li>Study the lipids, role of fatty acids, oils and</li> </ul>
biotechnology		waxes.
And herbal		<ul> <li>Study the enzymes its classification and</li> </ul>
technology		nomenclature.
Paper-I		<ul> <li>Study the basic concepts of Enzymology.</li> </ul>
(601)		Study the enzyme inhibitors.
	601.2	<ul> <li>Study the tissue culture techniques.</li> </ul>
		<ul> <li>Study the process of sterilization.</li> </ul>
		Study the preparation of culture media
	601.3	Understand the techniques of genetic
		engineering.
4		<ul> <li>Study the process of DNA library.</li> </ul>
		Study the types of DNA library.
4/	404.4	<ul> <li>Study the Agrobacteria mediated gene transfer.</li> </ul>
'//	601.4	<ul> <li>Develop the skills of herbal technology.</li> </ul>
4//		Study the methods of Cultivation, Harvesting,
$\mathcal{R}//$	, 8	Understand the technique of dye yielding of
'///	2	herbal plants.
mx/ / 6	(02.1	Study the used of herbs in cosmetics.
T.Y.	602.1	Study the phytogeography, climatic regions of
Paper-II Phytogeography,		India.
Utilization of		Study the Environmental pollution.  Study the Poursychle and New Poursychle.
Plants,		<ul> <li>Study the Renewable and Non Renewable sources.</li> </ul>
Techniques and		<ul> <li>Understand the conservation strategies.</li> </ul>
Pharmacognosy	602.2	<ul> <li>Study the morphology, utilization and important</li> </ul>
(602)	002.2	chemicals constituents of the plants.
$\times \setminus \setminus \neg$		<ul> <li>Understand the concept of Ethnobotany.</li> </ul>
T / / (1	602.3	Study the principle, types and application of
	002.0	microscope.
~		Study the various techniques.
4	602.4	Understand synthetic dyes, synthetic drugs,
'	. /	synthetic polymer.
4		Study the pharmacological plants
T.Y.	603	Find out the level of noise pollution of different
<b>Botany Practical</b>		nearby area with the help of decimeter and
Course	X	compare it with tolerance limit
		Study the morphology, utilization, and important
		chemical constituents of plants.
		<ul> <li>Study the Ethnobotanical importance of plants.</li> </ul>
		<ul> <li>Study the different adulterants used with</li> </ul>
		reference to drug adultration.

Department of B.Voc. (Bachelor of vocational)
<u>Building Technology</u>

**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

#### <u>Subject – Paper -1: Data Structures</u>

#### **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

#### <u>Subject – Paper -1: System Analysis & Software Engineering</u>

#### **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