Rayat Shikshan Sanstha's

Mahatma Phule Mahavidyalaya, Pimpri, Pune-17

<u>Program Outcomes (POs), Program Specific Outcomes (PSOs) and Course Outcomes (COs)</u>

Program Outcomes (B.A.)

- **PO.1: Basic knowledge:** Apply the basic knowledge of languages and social sciences.
- **PO.2: Problem Analysis:** Study the literature, understand terms and particular concepts. Formulate and analyze the complex ideas in the social sciences.
- **PO.3: Manners and Etiquettes**: Acquire knowledge such as code of conduct of society, manners, cultural, political, economical, historical and geographical situations.
- **PO.4: Critical Thinking:** Identify the assumptions, check out the degree to which assumptions are accurate and look validly towards the current perspectives.
- **PO.5: Effective Communication:** Apply the basic knowledge of listening, speaking, read and writing clearly Marathi, Hindi and English languages which leads to effective communication and being able to comprehend and write effective reports and design documents for making effective presentation and exchange clear information.
- **PO.6:** Use of Modern Tools: Acquire the knowledge of I.C.T. in communications.
- **PO.7: Ethics and Values:** Apply the ethical principles and understand the responsibilities of the societies. Implement the life values through literature.
- **PO.8: Life-long Learning**: Understand the nature of any discipline as a continuous process of development and welfare of the human being.
- **PO.9: Research Awareness:** Develop Research awareness among students through experiential learning.



PO.10: Global Competency: Acquire global competency by inculcating the knowledge of present social, political, economical and linguistical scenario.

PO.11.Environmental Awareness: Study the environmental problems and develop capacity to solve environmental problems.

Department of English

Program specific outcomes

Name of the Department	Program specific outcome
English	PSO1: Ability for clear expression for both oral and
	written.
	PSO2: Attend the potential knowledge of English
	language, their trends and terms.
	PSO3: Understand the code of conduct cultural issues.
	PSO4: Understand the various literary genres and study
	of literature such as Indian, British literature and
	language etc.

Name of the	Class	Course	Cours	Course Outcome	
Department		Name	e code		
English	F.Y.B.C	Compu	111	CO1 Get familiarized with excellent pieces of prose and	
	om	lsory		poetry in English and will be realized the beauty and	
	Sem.1	English		communicative power of English	
				CO2 Understand native cultural experiences and	
				situations and develop humane values and social	
				awareness	
				CO3 Acquire overall linguistic competence and	
				communicative skills	



English F.Y.B.C Compu Isory Sem.2 English CO1: Students realize the beauty and communicative power of English. CO2: Students understand the importance and utility of the English language. CO3: Students can use the language effectively and feel confident in and outside the world CO4: Their employability enhances and English becomes the medium of their livelihood and personality.
Sem.2 English CO2: Students understand the importance and utility of the English language. CO3:Students can use the language effectively and feel confident in and outside the world CO4: Their employability enhances and English becomes the medium of their livelihood and personality. English F.Y. Compul B.A sory Sem.1 English F.Y. Compul English CO2 Students realize the beauty and communicative power of English. CO2 Students understand the importance and utility of the English language English F.Y. Compul English CO3: Students realize the beauty and communicative power of English. CO4: Their employability enhances and utility of the English language CO5: Students realize the beauty and communicative power of English. CO6: Students understand the importance and utility of the English language CO7: Students realize the beauty and communicative power of English. CO8: Students realize the beauty and communicative power of English. CO9: Students understand the importance and utility of the English language.
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CO3:Students can use the language effectively and feel confident in and outside the world CO4: Their employability enhances and English becomes the medium of their livelihood and personality. English F.Y. Compul B.A sory power of English. Sem.1 English CO2 Students understand the importance and utility of the English language . English F.Y. Compul B.A lsory Sem.2 English CO2 Students can use the language effectively and fee confident in and outside the world CO2 Their employability enhances and English become the medium of their livelihood and personality. English FYBA Optio 11331 CO1 Students realize various forms of literature and language.
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English F.Y. Compul B.A sory Sem.1 English F.Y. Compul B.A sory Sem.2 English FYBA Optio Sem.1 Table Sem.1 Properties FYBA Optio Sem.1 Table CO1 Students realize the beauty and communicative power of English realize the beauty and communicative power of English. CO2 Students understand the importance and utility of the English language CO2 Students can use the language effectively and feed confident in and outside the world CO2 Their employability enhances and English become the medium of their livelihood and personality. English FYBA Optio language.
B.A sory Sem.1 English F.Y. Compu B.A lsory Sem.2 English FYBA Optio Sem.1 Type Power of English CO2 Students understand the importance and utility of the English language CO3 Students can use the language effectively and fee confident in and outside the world CO3 Their employability enhances and English become the medium of their livelihood and personality. English FYBA Optio I 11331 CO1 Students realize various forms of literature and language.
Sem.1 English CO2 Students understand the importance and utility of the English language English F.Y. Compu B.A Isory Sem.2 English CO2 Their employability enhances and English become the medium of their livelihood and personality. English FYBA Optio 11331 CO1 Students realize various forms of literature and language.
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Sem.2 English CO2 Their employability enhances and English become the medium of their livelihood and personality. English FYBA Optio 11331 CO1 Students realize various forms of literature and language.
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English FYBA Optio 11331 CO1 Students realize various forms of literature and language.
Sem.1 nal language.
Englis CO2 They understand the literary manit heavity and
Englis CO2 They understand the literary merit, beauty and
h creative use of language.
English FYBA Optio 11332 CO1 Students become aware of the technical aspects and
Sem.2 nal their practical usage
Englis CO2 Students develop the art of reading and
h u8nderstanding of literature and language.
English SY Comp 2017 CO1 The Student becomes the self- learned
BA ulsor CO2 The Students becomes familiar with various forms
Sem.1 y of literature.
Engli CO3 The Students become independent readers



		sh		CO4 Students become familiar with human values and	
				social awareness	
				CO5 The Student becomes the self- learned	
English	S.Y.	Optio	2337	CO1 Students will learn artistic and innovative use	
	B.A	nal		of language through prescribed literary text	
	Sem.2	Engli		CO2 Students will be acquainted with basic	
		sh G-		concepts and issues in linguistics	
		II		CO3 They will learn sub-disciplines of linguistics.	
				CO4 Students will be able to response emotionally	
				to the literary text and will be acquired literary	
				sensibility.	
				CO5 Students will learn artistic and innovative use	
				of language through prescribed literary text	
English	S.Y.	Optio	2338	CO1 Students understand the terminology in Drama	
	B.A	nal		and Criticism.	
	Sem.1	Engli		CO2 Students understand few sample masterpieces	
		sh S-I		of English Drama from different parts of the world.	
				CO3 They develop their interest and analyze drama	
				independently.	
				CO4 Students become aware in aesthetics of Drama.	
				CO5 Students understand the terminology in Drama	
				and Criticism.	
English	S.Y.	Optio	2339	CO1 The students become familiar with the	
	B.A	nal		terminology in poetry	
	Sem.2	Engli		CO2 The students become studied some examples of	
		sh		poetry.	
		Paper -		CO3 The Students become aware in the aesthetics of	
		Appr eciati ng		poetry and read independently.	



		Poetr y			
English	T.Y.	Comp	3017	CO1 Students acquire the proficiency in English	
	B.A	ulsor		language	
	Sem.1	y		CO2 The wider exposure of the English language	
		Engli		enables them to acquire various skills in effective	
		sh		communication and it enhances their abilities of self-	
		Paper		learning.	
		-		CO3 The students acquire the skill of reading	
		Liter		different types of texts in English.	
		ary			
		Pinna			
		cles			
English	T.Y.	Optio	o 3337 CO`1 Students will come to know the major		
	B.A	nal		of Indian literature in English	
	Sem.2	Engli		CO2 Students will acquire sense of appreciation of	
		sh G-		literary text.	
		III		CO3 Students will develop human values and	
				concerns through literary text	
				CO4 Literary and linguistic competence of students	
				will be enhanced	
English	T.Y.	(Engli	3338	CO1 Students acquire the proficiency in English	
	B.A	sh S-		language	
	Sem.3	III)		The wider exposure of the English language enables	
		Paper		them to acquire various skills in effective	
		-		communication and it enhances their abilities of self-	
		Appr		learning.	
		eciati		CO2 The students acquire the skill of reading	
		ng		different types of texts in English.	



		Novel			
English	T.Y.	Speci	3339	CO1 Students acquire the knowledge of basics of	
	B.A	al		literary criticism.	
	Sem.4	Engli		CO2 They becomes aware of the nature and	
		sh S-		historical development of criticism.	
		IV		CO3 They familiarize with the significant critical	
				approaches and terms.	
English	S.Y.	Optio		CO1 Students become aware about the use of	
	B.sc	nal		English language in literary texts and scientific	
		Engli		writing.	
		sh		CO2 Students revise the background knowledge and	
				concepts in grammar in order to improve the word	
				power on which their effective use of English	
				language is based.	
				CO3 They understands the minute technical aspects	
				which are necessary to make language use	
				appropriate according to various real life situations.	
				CO4 Students get exposure to make effective use of	
				language in both oral and written forms.	



DEPARTMENT OF HINDI (2020-21)

Name of the Program		Program Specific Outcomes (PSOs)				
	PSO 1	सृजनात्मकता एवं संभाषण कला				
B.A.	PSO 2	साहित्य की विविध विधाओं का स्वरूपात्मक ज्ञान				
(Hindi)	PSO 3	जीवनमूल्य				
	PSO 4	हिंदी विज्ञापन लेखन कौशल				
	PSO 5	राजभाषा हिंदी के संवैधानिक स्वरुप का आकलन				
	PSO 6	रिपोर्ट लेखन एवं समाचार लेखन कौशल				
	PSO7	अनुवाद कौशल				
	PSO 8	पारिभाषिक शब्दावली तथा संक्षिप्तियाँ				
	PSO 9	हिंदी साहित्य के इतिहास से परिचय				
	PSO 10	अनुसंधान प्रविधि एवं प्रक्रिया का ज्ञान				
	PSO 11	प्रयोजनमूलक हिंदी से परिचय				
	PSO 12	साहित्यशास्त्र एवं भाषाविज्ञान से परिचय				
	PSO 13	कार्यालयीन तथा व्यावहारिक पत्राचार कौशल				
	PSO 14	प्रतिनिधि साहित्यकारों का परिचय				

Course Outcomes (COs)-U.G.

Department	Class	Course Code	Course Name	Course Outcome
Department of Hindi	F.Y.B.A	11091B	वैकल्पिक	coı.हिंदी साहित्य के प्रति रूझान ।
Tilligi	(प्रथम		हिंदी	CO2. हिंदी कहानी एवं काव्य साहित्य से
	अयन)		प्रश्नपत्र -	परिचय ।
			1(A)	CO3. जीवनमूल्य बोध ।
				CO4. प्रयोजनम्लक हिंदी से परिचय ।
				CO5. विचार क्षमता तथा लेखन क्षमता का विकास ।



				CO6. सृजनात्मकता (Creativity) का विकास ।
				co7.संवाद कौशल एवं सूत्रसंचालन का परिचय
				1
				CO8.इंटरनेट तथा हिंदी सॉफ्टवेयरों की सामान्य
				जानकारी ।
	F.Y.B.A	11092B	वैकल्पिक	CO1.हिंदी काव्य तथा गद्य की विविध
	(द्वितीय		हिंदी	साहित्यिक विधाओं का सामान्य परिचय ।
	अयन)		प्रश्नपत्र -	CO 2.स्ववृत्त लेखन कौशल ।
			1(B)	co 3.निबंध लेखन कौशल ।
				CO 4.विज्ञापन लेखन कौशल ।
				CO 5.वाक्यश्द्धीकरण ।
				co ६.राजभाषा हिंदी का प्रचार-प्रसार ।
	F.Y.B.Com	117C	वैकल्पिक	CO1.हिंदी कहानी एवं काव्य साहित्य से
	(प्रथम		हिंदी	परिचय ।
	अयन).		प्रश्नपत्र -	CO2.हिंदी संवाद कौशल का विकास ।
			1(A)	CO3.हिंदी कंप्यूटिंग का सामान्य परिचय ।
				co4.इंटरनेट तथा हिंदी सॉफ्टवेयरों की सामान्य
				जानकारी ।
				cos.अंक तथा गणितीय चिह्नों का देवनागरी में
				लेखन ।
	F.Y.B.Com	127C	वैकल्पिक	co1.हिंदी कहानी एवं काव्य साहित्य सेपरिचय
	(द्वितीय		हिंदी	
	अयन)		प्रश्नपत्र -	CO2.हिंदी संप्रेषण कौशल का विकास ।
			1(B)	co3.अन्वाद कौशल ।
				co4.पारिभाषिक शब्दावली (कार्यालयीन):सामान्य
				परिचय ।
		23093	CC-1C	con.काव्य साहित्य से परिचय ।
	S.Y.B.A		(G-2)	CO2.कहानी साहित्य से परिचय ।
	(तृतीय		आधुनिक	CO3.हिंदी कारक-व्यवस्था को समझना ।
	अयन)		काव्य,कहानी	CO4.शब्द युग्म का अर्थ एवं प्रत्यक्ष वाक्य में
			तथा	5



Т		
	व्यावहारिक	प्रयोग।
	हिंदी	CO5.संक्षेपण लेखन का प्रत्यक्ष बोध ।
		CO6.सर्जनात्मकता का विकास।
23091	DSE-1A	2
23091	(S-1)	co 1.भारतीय काव्यशास्त्र का परिचय ।
	काव्यशास्त्र	co 2. काव्य परिभाषा, तत्व आदि का बोध ।
	(सामान्य)	CO 3. काव्य के तत्व, शब्द-शक्तियों का परिचय ।
		CO 4. रस का स्वरूप समझाना ।
		CO 5. भारतीय काव्यशास्त्र के प्रति रुझान तथा
		आलोचनात्मक दृष्टि का विकास ।
23092	DSE-2A	CO 1.मध्ययुगीन हिंदी काव्य का सामान्य
	(S-2) सध्ययगीन	परिचय।
	मध्ययुगीन काव्य तथा	CO 2.कबीर के साहित्य का परिचय ।
	·	co 3.मीराँबाई के साहित्य को समझना ।
	उपन्यास	co 4.हिंदी उपन्यास की अवधारणा समझना ।
	साहित्य	CO 5.3पन्यास समीक्षा कौशल का विकास ।
		co 6.साहित्यिक रचनाओं में प्रतिबिंबित
		जीवनमूल्य बोध ।
23096	SEC-2A	co 1.अनुवाद कौशल ।
	अनुवाद:	co 2. अनुवाद का स्वरूप बोध ।
	स्वरुप एवं	co 3. अनुवाद क्षेत्र से परिचय ।
	व्यवहार	co 4. हिंदी से मराठी में अन्वाद :अन्प्रयोग ।
		co 5. अंग्रेजी से हिंदी, मराठी में अनुवाद कौशल
		का विकास ।
23012	MIL-1	CO 1 हिंदी भाषा श्रवण कौशल का विकास ।
	हिंदी भाषा	CO 2.हिंदी भाषा संवाद कौशल का विकास ।
	शिक्षण	co 3. हिंदी भाषा संवाद कौशल का विकास ।
		CO 4. हिंदी भाषा संवाद कौशल का विकास ।
		CO 5.हिंदी भाषा व्यवस्था एवं व्यवहार का बोध
		्रात्या या ॥ यनवर्षा २४ व्यवहार् या भाव
		। CO 6.लघ्कथा सृजन कौशल ।
	1	८०७.राषुच्या सृजण याराय ।



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S.Y.B.A	24093	CC-1D (G-2)	co 1. छात्रों को व्यंग्य पाठ से परिचित कराना।
(चतुर्थ		आधुनिक	CO 2. छात्रों को कहानी व्यंग्य पाठ का बोध
अयन)		हिंदी व्यंग्य	कराना।
		साहित्य	CO 3. साक्षात्कार कला से अवगत कराना।
			CO 4. भाषा का मोबाइल तंत्र समझाना।
		तथा	CO 5. पल्लवन कला से अवगत करना।
		व्यावहारिक	
	24091	हिंदी DSE-1B	
	24091	(S-1)	CO 1. छात्रों को साहित्य के भेद से अवगत
		साहित्य के	कराना।
		भेद	CO 2. छात्रों को पदय भेद से अवगत कराना।
			co 3. महाकाव्य, खंडकाव्य और मुक्तक काव्य का
			परिचय कराना।
			CO 4. नाट क का स्वरूप समझाना।
			CO 5. छात्रों में नाट्य अभिनय की रुचि विकसित
			करना।
	24092	DSE-2B	CO 1.रहीम के काव्य का परिचय ।
		(S-2)	CO 2.बिहारी की काव्य-अभिव्यंजना की समझ ।
		मध्ययुगीन	co 3.आध्निक हिंदी नाटक एवं रंगमंच की
		काव्य तथा	जानकारी ।
		नाटक	CO 4.नाट्यालोचन एवं अभिनय कौशल का
		साहित्य	विकास ।
	24096	SEC-2B	CO 1.माध्यम लेखन का सामान्य परिचय ।
		माध्यम	CO 2.सृजनात्मक लेखन कौशल ।
		लेखन	co 3.फीचर लेखन कौशल ।
			co 4.दृश्य-श्रव्य मधामों की भाषा से परिचय ।
	24012	MIL-2	co 1. वाक्य के भेदों की जानकारी ।
		हिंदी भाषा	co 2. विशेष प्रकार के वाक्यों से परिचय।
		शिक्षण	co 3. हिंदी भाषा श्रवण कौशल ।
			• •
			co ४. हिंदी भाषा संवाद कौशल।
			CO 5. हिंदी भाषा पठन कौशल ।



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				CO 6.हिंदी भाषा लेखन कौशल का विकास ।
				co ७. हिंदी भाषा-विधि तथा भाषा-व्यवहार।
				co 8. हिंदी काट्य-गीत सृजन कौशला
6.	T.Y.B.A	3094	आत्मकथांश	co 1. हिंदी आत्मकथा तथा काव्य – नाटक विधाओं
			काव्य -	का सामान्य परिचय ।
			नाटक	CO 2. साक्षात्कार कौशल (Interview skills)
			तथा लेखन	CO 3. सरकारी पत्राचार लेखन कौशल 1
			(G-3)	co 4. पारिभाषिक शब्दावली तथा संक्षिप्तियाँ ।
				CO 5. समाचार लेखन कौशल 1
				CO 6. अनुवाद कौशल(Translation Skills)
				CO 7. संवाद कौशल 1
				CO 8.कार्यक्रम संयोजन कौशल(Event
				Management Skills)
7.	T.Y.B.A	3095	हिंदीसाहित्य	co 1. हिंदी साहित्य के इतिहास की लेखन परंपरा से
			काइतिहास	परिचय ।
			S-3	co 2. कालविभाजन, नामकरण एवं युगीन पृष्ठभूमि
				से
				परिचय।
				co 3. हिंदी साहित्य के प्रतिनिधि रचनाकार एवं
				रचनाओं से परिचय ।
				CO 4. हिंदी साहित्य का विकासक्रम 1
				CO 5. साहित्य और युग जीवन का संबंध 1
				co 6. आधुनिक युग के साहित्य की प्रवृत्तियों से
				परिचय ।
8.	T.Y.B.A.	3096		——————————————————————————————————————
· ·	1,1,0,4,	3070	काव्यशास्त्र S-4	co 1.साहित्य की परिभाषाओं से परिचय 1
			5 4	CO 2.काव्यहेतु,काव्यप्रयोजनों का ज्ञान ।
				co 3.काव्य के तत्व,काव्य के भेद तथा
				शब्दशक्ति
				से परिचय ।
				co 4.छंद एवं अलंकारों का सोदाहरण परिचय 1



		CO 5.साहित्य की विविध विधाओं का तत्वगत
		अध्ययन ।
		CO 6.रस के स्वरुप,अंग एवं भेदों का विवेचन 1
		CO 7.आलोचना दृष्टि का विकास 1

Program Specific Outcomes PG (PSOs)

Name of the Program		Program Specific Outcomes (PSOs)				
- 1 · 8 · · · · ·	PSO 1	मध्ययुगीन काव्य की समीक्षा कौशल				
M.A	PSO 2	कथा एवं कथेतर हिंदी साहित्य का परिचय				
(Hindi)	PSO 3	भारतीय एवं पाश्चात्य काव्यशास्त्र के प्रमुख सिद्धांतों का				
		परिचय				
	PSO 4	हिंदी पत्रकारिता कौशल				
	PSO 5	तुलनात्मक अध्ययन क्षमता				
	PSO 6	सृजनात्मक लेखन एवं आलोचना दृष्टि				
	PSO 7	हिंदी पत्रकारिता के क्षेत्र का परिचय				
	PSO 8 आधुनिक काव्य का संवेदना एवं शिल्पगत अनु					
	PSO 9	हिंदी साहित्येतिहास लेखन बोध				
	PSO 10	भाषा विज्ञान के सैद्धांतिक एवं अनुप्रयोगात्मक पक्ष का				
		बोध				
	PSO 11	अनुसंधानपरक दृष्टि का विकास				
	PSO 12	रापार गांच्यमा यम गारवय				
	PSO 13	ात्वा जाना नग रार्वजा नग साज				
	PSO 14	भारतीय साहित्य का परिचय				



Course Outcomes (COs)-P.G.

Sr.	Class	Couse	Course	Course Outcome	
No.		Code	Name		
1.	M.A. I	10501	पाठ्यचर्या -1	CO 1. हिंदी की मध्ययुगीन काव्यप्रवृत्तियों का परिचय 1	
	(प्रथम		मध्ययुगीन	CO 2. मध्ययुगीन काव्य के प्रतिनिधि कवियों का	
	अयन)		काव्य	परिचय ।	
				CO 3. मध्ययुगीन काव्य की प्रासंगिकता(Relevance) l	
				CO 4. मध्ययुगीन काव्य की भाषाशैली का परिचय 1	
				CO 5.मध्ययुगीन काट्य की समीक्षा कौशल का विकास 1	
				co 6. मध्ययुगीन कवियों के दोहों और पदों की	
				प्रस्तुति ।	
				CO 7.जीवनमूल्य संप्रेषण 1	
		10502	पाठ्यचर्या -2	CO 1. गद्य की उपन्यास और कहानी विधा का	
			कथासाहित्य	तात्विक परिचय ।	
				CO 2. उपन्यास और कहानी विधा की समीक्षा कौशल	
				का विकास ।	
				CO 3. रचना का आस्वादन लेने की क्षमता विकसित	
				करना ।	
				CO 4. सृजनात्मक क्षमता का विकास 1	
				CO 5. तुलनात्मक अध्ययन क्षमता में वृद्धि 1	
				CO 6.आलोचनात्मक दृष्टि का विकास 1	
				CO 7.जीवनमूल्य संप्रेषण 1	
		10503	पाठ्यचर्या -3	CO 1.काव्य और काव्यशास्त्र का विशेष परिचय 1	
			भारतीय	CO 2. भारतीय काव्यशास्त्र के विकासक्रम का परिचय 1	
			काव्यशास्त्र	co 3.भारतीय काव्यशास्त्र के प्रमुख संप्रदायों /सिद्धांतों	
				का परिचय ।	
				CO 4.रचना वैशिष्ट्य और मूल्यबोध को परखने की	
				क्षमता का विकास ।	
				CO 5.आलोचनात्मक कौशल का विकास 1	
		10504	पाठ्यचर्या -4	co 1.हिंदी पत्रकारिता के क्षेत्र का परिचय 1	



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			हिंदी	CO 2.पत्रकारिता के क्षेत्र में रोजगार के अवसरों की
			पत्रकारिता	जानकारी ।
				CO 3.पत्रकारिता कौशल का विकास 1
				CO 4.पत्रकारिता की भाषा का ज्ञान 1
				CO 5.हिंदी भाषा और साहित्य के विकास में पत्र-
				पत्रिकओं का योगदान।
2	M.A. I	20501	पाठ्यचर्या -	CO 1.व्यंग्य ,निबंध,रेखाचित्र और संस्मरण कथेतर
	(द्वतीय		5	साहित्य का परिचय ।
	अयन)		कथेतर	CO 2.कथेतर हिंदी साहित्य का तत्वगत अध्ययन ।
			गद्य	co 3.कथेतर हिंदी साहित्य की आलोचनात्मक दृष्टि का
			साहित्य	विकास ।
				CO 4.कथेतर हिंदी साहित्य का भाषिक अध्ययन ।
				co s.मौलिक हिंदी लेखन कौशल की प्राप्ति 1
				CO 6.कथैतर हिंदी साहित्य की प्रासंगिकता ।
		20502	पाठ्यचर्या -	CO1. शोध प्राविधि का परिचय 1
			6	CO2. शोध दृष्टि का विकास 1
			शोध प्रविधि	co3. नए शोध-प्रवाहों से परिचय 1
				CO 4.शोध प्रक्रिया के विविध आयामों का परिचय 1
				CO 5.शोध और आलोचना के अंतर को समझना 1
				CO 6.शोध प्रबंध लेखन कौशल 1
				CO7. संदर्भ ग्रंथ सूची की पद्धतियों की जानकारी 1
				CO 8.शोध प्रबंध टंकण में यूनिकोड का महत्त्व 1
		20503	पाठ्यचर्या -	CO 1. पाश्चात्य साहित्यशास्त्र के विकासक्रम का
			7	परिचया
			पाश्चात्य	CO 2. पाश्चात्य साहित्यशास्त्र के प्रम्ख सिद्धांतों का
			साहित्यशा	परिचय ।
			स्त्र	CO 3. साहित्यशास्त्रीय समीक्षा कौशला
				CO 4. पाश्चात्य साहित्यशास्त्र के सिद्धांतों में साम्य-
				वैषम्य।
				co 5.सृजन ,आस्वादन और आलोचना दृष्टि का विकास।
				CO 6.नई आलोचना प्रणाली कौशल (new criticism skills)
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		20505	पाठ्यचर्या -	CO 1.हिंदी उपन्यास साहित्य के विकासक्रम का				
			8	परिचया				
			हिंदी	CO 2.पठित उपन्यासों का संवेदना एवं शिल्पगत				
			उपन्यास	अध्ययन ।				
			साहित्य	CO 3.3पन्यास साहित्य के आस्वादन की क्षमता का				
				विकास ।				
				CO 4.3पन्यास साहित्य में प्रतिबिंबित जीवनमूल्यों का				
				परिचय ।				
				CO 5.3पन्यास मूल्यांकन कौशल ।				
3	M.A.II	30501	पाठ्यचर्या-9	co 1.आधुनिक काव्य की प्रमुख प्रवृत्तियों से परिचय ।				
	तृतीय		आधुनिक	co 2.आधुनिक काव्य समीक्षा कौशल ।				
	अयन)		काव्य	co 3.आधुनिक काव्य का संवेदना एवं शिल्पगत				
			(आदर्शवादी,	अनुशीलन ।				
			छायावादी	CO 4.काव्य-सृजन कला का विकास।				
			तथा	co 5.महाकाव्य एवं मुक्तक की अवधारणा की समझ ।				
			अन्यकाव्य)					
		30502	पाठ्यचर्या-10	co 1.भाषा विज्ञान के स्वरुप का परिचय ।				
			भाषाविज्ञान	CO 2.भाषा विज्ञान के अध्ययन की दिशाओं का				
				परिचय ।				
				CO 3. भाषा विज्ञान के अनुप्रयोगात्मक पक्ष का बोध ।				
				co 4.साहित्य अध्ययन में भाषा विज्ञान की				
				उपयोगिता की समझ ।				
				CO 5.स्वनिम,रूपिम एवं वाक्य विज्ञान का अनुशीलन।				
		30503	पाठ्यचर्या-11	co 1. हिंदी साहित्येतिहास लेखन का परिचय ।				
			हिंद <u>ी</u>	co 2. हिंदी साहित्येतिहास के कालविभाजन तथा				
			साहित्य का	नामकरण का परिचय ।				
			इतिहास	CO 3. आदिकालीन, भक्तिकालीन,रीतिकालीन प्रम्ख				
			41316131	साहित्यिक प्रवृत्तियों,रचनाकारों और रचनाओं से				
				परिचय।				
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		30505	पाठ्यचर्या-12	co 1. संचार माध्यम और संप्रेषण अवधारणाओं का		
			वैकल्पिक –	परिचय।		
			(ख) संचार	CO 2. संचार माध्यम की अवधारणा और स्वरूप का		
			माध्यम	परिचय।		
			:सिद्धांत	CO 3. संचार माध्यम की बह्आयामी भूमिका का		
			और स्वरूप	परिचय ।		
				CO 4. संचार माध्यम कौशल विकसित करना।		
4	M.A.II	40501	पाठ्यचर्या-13	CO 1.आध्निक कविता के संवेदना एवं शिल्प पक्ष का		
	(चतुर्थ		आध्निक	परिचय ।		
	अयन)		कविता	CO 2.आधुनिक काव्य की समीक्षा दृष्टि का विकास ।		
				co 3.सृजनात्मक कौशल ।		
				co 4.आध्निक कविता की विविध विधाओं से परिचय।		
				co s.आध्निक कविता के विविध विमर्शों का बोध।		
		40502	पाठ्यचर्या-14	co 1.हिंदी भाषा की ऐतिहासिक पृष्ठभूमि का परिचय।		
			हिंदी भाषा	co 2.आध्निक आर्यभाषाओं का परिचय ।		
			का विकास	co 3.हिंदी की स्वनिम व्यवस्था का अन्शीलन ।		
				co 4.हिंदी की रूप रचना का बोध ।		
				CO 5.हिंदी भाषा के संरचनात्मक कौशल का विकास।		
		40503	पाठ्यचर्या-15	CO 1. हिंदी गद्य के उद्भव और विकास से छात्रों को		
			हिंदी	अवगत कराना।		
			साहित्य का	CO 2. द्विवेदी युग, छायावाद, प्रगतिवाद, प्रयोगवाद और		
			इतिहास	नई कविता के प्रमुख साहित्यिक प्रवृत्तियों,		
			(आधुनिक	रचनाकारों और रचनाओं से परिचय।		
			काल)	co 3. ऐतिहासिक दृष्टि का विकास ।		
		40505	पाठ्यचर्या-16	CO 1. भारतीय साहित्य का परिचय ।		
			वैकल्पिक -	CO 2. भारतीय साहित्य की अवधारणा 1		
			(ख)	CO 3. भारतीय साहित्य के अध्ययन की समस्याएँ		
			भारतीय	सुलझाना ।		
			साहित्य	co 4. भारतीयता का समाजशास्त्र समझना ।		
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Course Outcomes (COs): Short Term Courses

Name of the	Class	Course	Course Outcome
Department		Name	
Hindi	F.Y.B.A	A Certificate Course in Fashion	CO 1. To create awareness about clothing culture. CO2. To understand the suitability of different fabrics and their end use.
		Designing	CO 3.To understand the basic concepts of design and fashion.
			CO4 To know basics of garment construction. CO5.To learn the basic techniques of sketching and drafting.
			CO6 .Identify the types of sleeves and collars.
	s.y. B. A	A Diploma Course in	CO1.To understand the principle of colour theory and their application in clothing and accessories.
	•	Fashion Designing	CO2.To know the structural and decorative designs. CO 3.To develop a skill for drawing mechanical croquis.
			CO 4.To develop a skill to create contemporary styles of embroideries for fashion garments.
			CO5 To groom the students to raise their self confidence and creativity.
			CO6.To acquaint students with skills and techniques in fashion designing.
	S.Y.B.A	A Certificate Course in Journalism	CO 1.To introduce the basic concepts in Journalism. CO 2.To acquire the knowledge related to media and its impact.
		Journansm	CO3. To acquaint students with important aspects of the process
			of Journalism. CO4.To acquire the skill of News Writing.
			CO5. To inculcate the knowledge of laws and ethics of Journalism.
			CO6. Students will be able to have the understanding of impactful media writing.
	T.Y.B.A	An Advanced	CO1.To develop the ability to create style in the garment
	•	Diploma Course in	through flat pattern making. CO2.To develop skills in western garments.
		Fashion	CO3.To acquire the skill of adding accessories.
		Designing	CO4.To learn techniques of product development and promotion.
			CO5.To learn the design process and presentation skill of individual work.
			CO6.Students will be able to organize fashion show.



T	.Y.B.A	A Certificate	CO 1. The students will be able to effectively &
1.	· 1 ·D·A	Course in	•
			efficiently produce formatted text and
		DTP and	graphics
		Book	CO 2.To learn the use of computer for printing and
		Publishing	publication.
			CO 3. To acquire the knowledge of basic computer
			concept regarding DTP.
			CO 4.To understanding data entry and data processing.
			CO 5.To acquaint students with the art, technique,
			legal procedure and ethics of book publishing.
			CO 6.To learn and practice MS office.
M	I.A. I	An Advanced	CO 1. Students are able to use thesaurus, encyclopedia,
		Course in	dictionary to improve their vocabulary.
		Spoken	CO2. They are able to professionally interact with effective
		English	conversations.
			CO3. They became more confident while discussing in
			English language.
			CO4 .To improve the advanced communication skills.
			CO5. To demonstrate an increased ability to respond
			appropriately to the formality level of a social
			interaction.
			CO6. To encourage students to find more resources to
	T A TT	A C 1	develop their communication skills.
M	I.A. II	A Certificate	CO1.To become self-confident individuals by mastering
		Course in	inter-personal skills, team management skills, and
		Soft Skills	leadership
		Development	skills.
			CO2.To develop all-round personalities with a mature outlook to function effectively in different
			circumstances.
			CO 3.To develop broad career plans, evaluate the
			employment market, identify the organizations to get
			good placement, match the job requirements and skill
			sets.
			CO4.To take part effectively in various selection procedures
			adopted by the recruiters.
			CO5.To increase learner's unique soft skills so as to
			develop attributes that enhance an individual's
			interactions, earning power and job performance.
			CO6.To inculcate potential skills in the learners to prepare
			them to deal with the external world in a
			collaborative manner, communicate effectively, take
			initiative, solve problems, and demonstrate a positive
			work ethic so as to hold a good impression and
			positive impact.



DEPARTMENT OF MARATHI (2020-21) Course Outcome (Cos)

Name of the	Class	Course	Course	Course Outcome
Department		Name	code	
Marathi	F.Y.B.A.	1027	मराठी जनरल समकालीन मराठी कथा एकांकिका : "विठ्ठल तो आला आला " व "हंडाभर चांदण्या"	 CO.1 मराठी भाषा साहित्याविषयी विद्यार्थ्यांच्या मनात आवड व रुची निर्माण करणे . CO.2 मराठी कथा ,कविता या वाड्.मय प्रकारचे स्वरूप व परंपरेचे आकलन करून देणे . CO.3 श्रवण ,वाचन ,लेखन ,भाषण , संभाषण या भाषिक कौशल्याच्या क्षमतेचा विकास घडवून आणणे. CO.4 प्रास्ताविक ,मनोगत ,भाषण , आभार व सूत्रसंचालक या कार्यक्रम संयोजन कौशल्य विकसित करणे . CO.5 वृत्तपत्र ,आकाशवाणी व दूरदर्शन या प्रसार माध्यमांसाठी बातमीलेखन ,निवेदन ,मुलाखत व जाहिरात लेखन यांचा परिचय करून देणे . CO.6 मातृभाषा व राष्ट्रप्रेम यांच्याविषयी जाणीव जागृती घडवून आणणे .
.2	F.Y.B.COM	1521	यशोगाथा व व्यावहारिक व उपयोजित मराठी मराठी जनरल	CO.1 वाणिज्य विषयाच्या विद्यार्थ्यांना मराठी व्यवहार क्षेत्राची माहिती देणे. CO.2 विविध क्षेत्रातील भाषा व्यवहाराचे स्वरूप व गरज समजावून देणे. CO.3 व्यवहार क्षेत्रातील मराठी भाषेचे स्थान स्पष्ट करणे त्यातील प्रत्यक्ष



		1	1	
				वापराचा अभ्यास करणे.
				CO.4 विविध क्षेत्रातील मराठीचा अभ्यास
				करण्यासाठी प्रसारमाध्यमांचे स्वरूप
				व त्यातील भाषण व्यवहार
				समजावून देणे.
				CO.5 प्रसारमाध्यमांसाठी विविध लेखन
				प्रकाशांचा अभ्यास व प्रत्यक्ष लेखन
				करणे.
.3	S.Y.B.Sc	0.5.1.1.1	विज्ञानसृष्टी /	CO.1 साहित्यासंबंधी विशेषतः मराठी
		83111 83112	व्यावहारिक व	साहित्यासंबंधी रुची निर्माण करणे.
		03112	उपयोजित	CO.2 साहित्याभ्यातून जीवनविषयक
			मराठी मराठी	समज विकसित करणे.
			जनरल	CO.3 जागतिकीकरणात विविध क्षेत्रांना
				सामोरे जाण्यासाठी भाषिक
				क्षामार जाण्यासाठा मापिक क्षमतांचा विकास करणे .
				CO.4 डॉ .नरेंद्र दाभोळकर यांचा
				वैज्ञानिक दृष्टिकोन
				विद्यार्थ्यांच्यामध्ये रुजविणे ,
				नवनवीन शोध ,संकल्पना ,
				विज्ञानकथांमधून आकलन करून
				देणे.
				CO.5 आकाशवाणीसाठी भाषण संहिता
				दूरदर्शनसाठी मुलाखत लेखन ,
				निबंधलेखन ,सारांश लेखन ,
				पारिभाषिक संज्ञा यांचा परिचय
				करून देणे.
				CO.6 व्यावहारिक व उपयोजित मराठीचे
				आजच्या तंत्रज्ञानाच्या काळातील
				महत्व त्याद्वारे विद्यार्थ्यांमध्ये
				भाषिक क्षमतांचा दर्जा वाढविणे.



जनरल-२ जीवनवेध व माझी जडणघडण CO.2 सावित्रीबाई फुले ,महर्षी कर्वे , बडोदा नरेश ,शहाजीराजे गायकवाड ,प्रबोधनकार ठाकरे , डॉ .बाबासाहेब आंबेडकर व कर्मवीर भाऊराव पाटील इत्यादी समाजसुधारकांच्या जीवन चरित्रांच्या माध्यमातून विद्यार्थ्यांना सामाजिक परिवर्तनाची ओळख करून देणे. CO.3 माजी राष्ट्रपती प्रतिभाताई पाटील ,डॉ .यु. म . पठाण,रा .ग .जाधव ,गंगाधर पानतावणे ,तारा भवाळकर , डॉ .नागनाथ कोत्तापल्ले , इत्यादी साहित्यिकांचे जीवनानुभवाचा परिचय करून देणे	
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पानतावणे ,तारा भवाळकर , डॉ .नागनाथ कोत्तापल्ले , इत्यादी साहित्यिकांचे	
डॉ .नागनाथ कोत्तापल्ले , इत्यादी साहित्यिकांचे	
इत्यादी साहित्यिकांचे	
्रीयगर्भवाग परिच्या स्ट्रूप वेणे	
व विद्यार्थ्यां मध्ये चांगुलपणाच्या	
भावनेचा विकास घडवून आणणे.	
CO.4 मराठी भाषेचे व्याकरण व	
व्यावहारिक व उपयोजित	
मराठीसाठी पत्रलेखन हे कौशल्य	
विकास.	
.5 S.Y.B.A. 2025 आधुनिक CO.1 २०२५ मराठी नाट्यपरंपरेचा	
मराठी नाट्य वाड्.मय प्रकार ,स्वरूप व मराठी	
वाड्.मय नाट्यपरंपरेचा परिचय करून देणे.	
स्पेशल-१ CO.2 नाट्य साहित्यकृतीच्या माध्यमातून	
)नाटक (विद्यार्थ्यांमध्ये सामाजिक जाणीव	
नटसम्राट व जागृती निर्माण करणे.	
फिकरा CO.3 कादंबरी वाड्.मय प्रकार व मराठी	
)कादंबरी(कादंबरी परंपरेचा परिचय करून देणे.	
CO.4 विद्यार्थ्यांमध्ये साहित्य रसास्वाद ,	
क्षमता निर्माण करणे.	



.6	S.Y.B.A.	2026	अर्वाचीत	CO.1 सन १८० ते १९६० पर्यंतचा
			मराठी	परिचय करून देणे.
			साहित्य	CO.2 अर्वाचीन मराठी साहित्यांचे विविध
			स्पेशल-२	कालखंडाचे स्वरूप व कालखंडाचे
				नामकरण याविषयीची पार्श्वभूमी /
				परिचय करून देणे.
				CO.3 अर्वाचीत मराठी साहित्य
				कालखंडातील कथा ,कादंबरी ,
				नाटक ,काव्य ,चारित्र ,
				आत्मचरित्र ,इत्यादी
				साहित्यप्रकारांचा स्थूल परिचय करून देणे.
				CO.4 आधुनिक मराठी साहित्य निर्माण
				करणाऱ्या साहित्यिकांचा परिचय व
				त्यांची वाड्.मयीन कामगिरीची
				ओळख करून देणे.
				CO.5 आधुनिक मराठी साहित्य
				निर्मितीच्या प्रेरणा व प्रवृत्तींचा
				परिचय करून देणे.
				CO.6 साहित्यांच्या माध्यमातून
				विद्यार्थ्यांमध्ये सामाजिक जाणीव
.7	T.Y.B.A.	3024	मराठी	जागृती निर्माण करणे.
• *	1.1.0.71.	3024	जनरल-३	CO.1 प्रवासवर्णन या वाड्.मय प्रकाराचे स्वरूप व मराठी प्रवास वर्णन लेखन
			जगरल-२	परंपरेचा परिचय करून देणे.
				CO.2 वैचारिक व ललित निबंध लेखन
				परंपरेचा परिचय करून देणे ,हा
				निबंध या वाड्.मय प्रकारातून
				विद्यार्थ्यांमध्ये सामाजिक जाणीव
				जागृती करणे.
				CO.3 ग्रंथ परीक्षणाच्या माध्यमातून
				साहित्याचा आस्वाद घेणे ,साहित्याच्या
				चिकित्सक समीक्षांची दृष्टी विकसित करणे.
				CO.4 मराठी भाषा व साहित्यांचा प्रचार व
				प्रसार करणे.



.8	T.Y.B.A.	3025	साहित्यविचार	CO.1 साहित्य स्वरूप ,वैशिष्ट्ये ,
			स्पेशल-३	साहित्यातील कलात्मकता यांचे
				आकलन समृद्ध करणे.
				- CO.2 साहित्य निर्मितीची प्रयोजने व
				काव्य कारणांविषयी परिचय करून
				देणे.
				CO.3 साहित्यांच्या भाषेचे गुणविशेष ,
				प्रतिमा ,प्रतिक व मिथक यांचा
				परिचय.
				CO.4 साहित्यलेखन शैली आकलन समृद्ध
				करणे.
				CO.5 साहित्य व समाज यांचे परस्पर
				संबंध व परस्परांवर होणारे
				परिणाम यांची जाणीव करून देणे.
				CO.6 विविध साहित्यप्रकारांच्या
				संकल्पनांची ओळख करून देणे.
				CO.7 साहित्य अभिरुची संकल्पनेचा
				विकास घडवून आणणे.
				CO.8 साहित्य व कला यांच्याविषयी
				विद्यार्थ्यांच्या मनात रुची निर्माण
				करणे.
.9	T.Y.B.A.	3026	भाषा विज्ञान	CO.1 विद्यार्थ्यांना मराठी भाषा
			वर्णनात्मक व	विज्ञानाचा स्थूल परिचय करून
			इतिहासिक स्पेशल-४	देणे.
			K44141-0	CO.2 भाषेचा शास्त्रीय दृष्टीने अभ्यास
				करण्याचा दृष्टिकोन विकसित
				करणे.
				CO.3 विद्यार्थ्यांना मराठी भाषेचे स्वरूप
				व कार्य सांगून भाषेच्या माध्यमातून
				कसा एकसंघ राहू शकतो ,हा
				विचार त्यांचेवरबिंबविणे.
				CO.4 मराठी भाषेतील शब्द निर्मितीची



प्रक्रिया वागिद्रिंय रचना ,स्वनिय
व्यवस्था ,रुपिम व्यवस्था
इत्यादीच्या साहाय्याने विद्यार्थ्यांना
परिचय करून देणे.
CO.5 विद्यार्थ्यांना भाषाभ्यासाची
ऐतिहासिक पद्धतीचा परिचय करून
देणे व त्याद्वारे जागतिक प्रमुख
भाषा कुले व त्यातील मराठी
भाषेच्या स्थानाची ओळख करून
देणे व मराठी भाषेविषयी अस्मिता
जागृती करणे .
CO.6 मराठी भाषेची उत्पत्ती केव्हा झाली
व त्यासाठी कोणत्या साधनांचा
वापर करण्यात आला ,याचा
विद्यार्थ्यांना परिचय करून देणे ,
मराठी भाषाभ्यासाची
विद्यार्थ्यांमध्ये निर्माण करणे.

DEPARTMENT OF GEOGRAPHY

Course Outcomes (COs) Course outcomes (Semester-wise)

Name of the Department	Class	Course code	Course Name	Course Outcome
Geography	F Y B Com Sem. I and sem.II		Elements of Commercial Geography- I and II	CO 1 Students define environment and human activities; CO 2 Students understand the types of environment and human activities i.e. natural or physical environment and non-physical or cultural environment; CO 3 Students can differentiate between natural and unnatural environment; CO 4 Students understand the effect of environment and geographical conditions on commercial activities;
Geography	FYBA	110A	Physical	CO 5 The geographical maturity of students
Geography	Sem. I	110B	Geography and	in their current and future courses shall



	and		Human	develop.
	Sem II		Geography	CO 6 The student's develops theoretical,
	Sciii II		Geography	applied and computational skills.
				CO 7 Student-employability enhances and
				English becomes the medium of their
				livelihood and personality
Geography	SYBA Sem. III	Gg201 A And	G2- Environmental	CO 1 To create the awareness about dynamic environment among the student. CO 2 To acquaint the students with fundamental concepts of environment geography for development in different areas. CO 3 The students should be able to
Geography	And	Gg201	Geography	integrate various factors of
	Sem.	B	Geography	Environment and dynamic aspect of
	III	В		Environmental geography.
				CO 4 To make aware the students about the
				problems of environment, their
				utilization and conservation in the
				view of sustainable development
				CO 1 To acquaint students with Geography Of our State. CO 2 To make students aware of the
				magnitude of problems and prospects in Maharashtra.
				CO 3 To help students understand the inter relationship between the subject and the society.
			S1	CO 4 To help students understand the recent
	SYBA	Gg220	Geography of	trends in regional studies
	Sem.	A	Maharashtra –	CO 5 To make students aware about the
Geography	III	And	I	Agriculture problems and prospects of
	And	Gg220	And	Maharashtra.
	Sem.	В	Geography of	CO 6 To understand the population
	IV		Maharashtra - II	distribution and settlement pattern in
			11	Maharashtra.
				CO 7 To understand the concept of rural
				development.
				CO 8 To understand the prospectus in
				Tourism activity in Maharashtra and
				the role of MTDC and Role of MIDC
				in industrial development in rural area
	OT 7T A	0.010	G.	of Maharashtra
Geography	SYBA	Gg210	S2	Develop practical skill and use of map scale



	Sem. III And Sem. IV	A And Gg210 B	Practical Geography – I (Scale and Map Projections) And Practical Geography – II (Cartographic Techniques, Surveying and Excursion / Village / Project Report)	and projection. CO 1 To make students aware of the new techniques, accuracy and skills of map making CO 2 Develop practical knowledge and application of cartographical techniques. CO 3 To make students aware of the new techniques, accuracy and skills of Map Making.
Geography	ТУВА	Gg 3207	G3 Regional Geography of India	CO 1 Identify natural regions of India based on physical environment and understand the regional variation due to differences in physical environment. CO 2 Understand population of India in terms of their quality and spatial distribution pattern and the prospect and problems of population growth. CO 3 The Student comprehend the linkage s of systematic geography of India with the regional personality of the country CO 4 Understand the location Physiography, Drainage, Climate, and Vegetation of India CO 5 The Students know the silent feature, problems and prospects of Agriculture. CO 6 Understand how economic activities in India are determined by both the physical as well as human environment.
Geography	ТҮВА	Gg320 8	S3 Agricultural Geography	CO 1 Students Know the importance of agricultural geography in the overall understanding of man and environment relationship. CO 2 Students Identify agricultural regions with special reference to India and understand the evolution and development of these regions. CO 3 Students evaluate the significance of science and technology in the development of agriculture and the implications on society and ecology. CO 4 Students understand the determinants of



Geography	ТҰВА	Gg320 9	S4 Techniques of Spatial Analysis	agricultural activities that lead to spatial variation. CO 5 Students demonstrate an understanding of the concept, principles and theories in the field of agricultural systems. CO 1 Read Toposheets interprets the data on the map. CO 2 Students understand how to represent topographical features in the form of contours and profiles. CO 1 Students are able to evaluate the land capability and feasibility through the use of slope and drainage analysis. CO 2 They develop their interest and analyze drama independently. CO 3 Read maps and interpret the data in the Weathermap. CO 4 Students solve statistical problems by adopting statistical techniques necessary for computing primary and secondary data and interpret the findings. CO 5 Understand interpretation of Weather images. CO 6 Compute the Correlation of Pearson's and Spearman's methods. CO 7 Understand the representation of Statistical data CO 8 Compute of Measures of Central Tendency of dispersion. CO 9 Calculation and plotting moving Average. Analysis of simple regression
		GGUT 111	Principles of Geomorpholog y	CO 1 To maintain updated curriculum.
Geography	M.A./ M.Sc. Part –I Sem. I	GGUT 112 GGUT 113	Principles of Climatology Principles of Economic Geography	CO 2 To take care of fast development in the Knowledge of Geography. CO 3 To enhance the quality and standards of Geography Education. CO 4 To provide a broad common frame work, for exchange, mobility and free dialogue
		GGUT 114	Principles of Population & Settlement	across the Indian Geography and Associated community.



			Geography	CO 5 To create and aptitude for Geography in
		GGUT 115	Practical in Physical and Human Geography	those students who show a promise for higher studies and creative work in Geography. CO 6 To create confidence in others, for equipping themselves with that part of Geography which is needed for various branches of Sciences or Humanities in which they have aptitude for higher studies and original work
		GGUT -121	Geoinformatics - I	CO 1 To maintain updated curriculum. CO 2 To take care of fast development in the
		GGUT -124	Agricultural Geography	Knowledge of Geography. CO 3 To enhance the quality and standards of
		GGUT -128	Industrial Geography	Geography Education. CO 4 To provide a broad common frame work,
	M.A./ M.Sc.	GGDP- 131	Practical in Surveying	for exchange, mobility and free dialogue across the Indian Geography and Associated community.
Geography Part -	Part –I Sem. II	0021	Geography of Disaster Management	CO 5 To create and aptitude for Geography in those students who show a promise for higher studies and creative work in
		GGUP- 134	Practical of Statistical Techniques for Geography	Geography. CO 6 To create confidence in others, for equipping themselves with that part of Geography which is needed for various branches of Sciences or Humanities in which they have aptitude for higher studies and original work
		GGUT -235	Geoinformatics -II	CO 1 To maintain updated curriculum. CO 2 Take care of fast development in the
Geography M Par	M.A./	GGUT -236	Geographical Thoughts	Knowledge of Geography. CO 3 To enhance the quality and standards of Geography Education.
	M.Sc.	GGUT -240	Urban Geography	CO 4 To provide a broad common frame work, for exchange, mobility and free dialogue
	Sem. G	GGDP- 241	Practical in Geoinformatics	across the Indian Geography and Associated community. CO 5 To create and aptitude for Geography in
		GGUT -242	Hydrology	those students who show a promise for higher studies and creative work in
		GGUP- 247	Practical in Economic Geography	Geography. CO 6 To create confidence in others, for equipping themselves with that part of



				Geography which is needed for various branches of Sciences or Humanities in which they have aptitude for higher studies and original work
		GGUT -249 GGUT -250	Geography of India Oceanography	CO 1 To maintain updated curriculum. CO 2 To take care of fast development in the Knowledge of Geography. CO 3 To enhance the quality and standards of
	M.A./ M.Sc.	GGUT -251	Research Methodology	Geography Education. CO 4 To provide a broad common frame work, for exchange, mobility and free dialogue
Geography		GGUT -254	Political Geography	across the Indian Geography and associated community. CO 5 To create and aptitude for Geography in those students who show a promise for
257	IV	GGDP-	Interpretation of Topographical Maps and GPS Survey	higher studies and creative work in Geography. CO 6 To create confidence in others, for equipping themselves with that part of Geography which is needed for various
	GGUT -258	Geography of World	branches of Sciences or Humanities in which they have aptitude for higher studies and original work	

DEPARTMENT OF PSYCHOLOGY

Program specific outcomes

Name of the Department	Program specific outcome
Psychology	PSO 1 Able to measure attitude, aptitude, interest,
	adjustment skill etc. Within the people.
	PSO 2 To interpretation of data & make research.
	PSO 3 Illustration of mental disorder & treatment.
	PSO 4 Use of psychological test & experiment.
	PSO 5 Use of motivation theory at work place.



Name of the	Class	Course	Course	Course Outcome
Department		Name	code	
Psychology	FYBA	Foundatio	DSC-	CO1 Understand the basic psychological
	Sem.1	ns of	PSY-	processes & their applications in day to
		Psycholog	1A11221	day life.
		y		CO 2 Develop the ability to evaluation
				learning & memory of a life.
				CO 3 Understand the personality &
				intelligence of the individuals by
				developing their psychological process
				& abstract potentials.
				CO 4 Understand the importance of
				motivation & emotional of the
				individual.
Psychology	FYBA	Introducti	DSC-	CO 1 To understand the basics of social
	Sem.2	ons to	PSY-	psychology.
		Social	1B11222	CO 2 To understand the nature of self,
		Psycholog		attitude & prejudice of the individual
		y		CO 3 Assess the interactional processes, love
				& aggression in our day to day Life
				CO 4 Understanding the social perception.
Psychology	SYBA	Social	2227	CO 1 To understand the social behaviour.
1 sy chology	G-2	psychology		CO 2 To understand self & how to develop it.
	0 =	psy energy		CO 3 Familiarize student with group
				behavior.
				CO 4 To understand improving self esteem.
				CO 5 To understand importance of close
				relationship.
				CO 6 To understand the leadership & its
				characteristics.
				CO 7 To able to understand aggression how
				to control it.
Psychology	SYBA	Abnormal	2228	CO1 To understand the criteria of abnormal
	Sem.1	psychology		behavior
				CO2 To acquaint student with the recent
				classification of abnormality.
				CO3 Understand various perspective of
				psychopathology.
				CO4 To student expect to acquire knowledge
				of causes, symptoms and treatment of
				various psychological disorder.



				CO5 To learned causes and treatment of various disorder. CO6 Knowing about the nature, types & nature types & perceptive of anxiety and
				disorders of childhood and adolescence
Psychology	SYBA Sem.2	Development psychology	2229	CO1 Understand influences of various factors on development CO2 To understand basic concept of human
				development forces
				CO3 To understand birth and birth complication
				CO4 To understand development of language
				CO5 Able to understand cognitive development process
				CO6 To learn all stages of life span and understand its good and bad impact on life
Psychology	SYBA	Industrial	3227	CO1 To learn about industrial and
	G-3	and		organizational psychology.
		organzatio nal		CO2 To able to understand selection and
		psychology		training programme. CO3 To able to learn evaluating job
		psychology		performance and application
				CO4 To understand motivation at the
				workplace
				CO5 To understand leadership, leadership
				qualities and function of leaders of industrial psychology
				CO6 To learn new concept 'engineering
				psychology' for easier work for workers
Psychology	SYBA (Sem 3)	Scientific research and experiment al	3228	CO1 To acquaint the student with the basic concept of experimental psychology and research methodology. CO2 To develop the spirit of scientific inquiry in the student
		psychology		CO3 To help them generate ideas of research,
		1.7		as well as develop hypothesis and
				operational definition for variable
				CO4 To help students understand the basic
				steps in scientific research. CO5 To enable the students to undertake and
				independent small-scale research
				CO6 To equip the students we the basic
				information and knowledge about test



				administration and scoring and interpretation of the obtained results.
Psychology	SYBA	Psychology	3229	CO1 To give practical experience to the
	(Sem	practical:		student in administering and scoring
	4)	tests and		psychological tests and interpreting the
		experiment		scores
		S		CO2 To familiarize the student with the use
				of elementary stoical techniques
				CO3 To acquaint the student with the basic
				procedure and design of psychology
				experiment
				CO4 To encourage and guide the students to
				undertake a small-scale research project
				CO5 To encourage student to learn practical
				application through study tour and visit

Short Term Course Outcomes

Name of the	Class	Course	Course Outcome
Department		Name	
Psychology	SY/TY	Family	CO1 To understanding of counseling skills
	BA	counseling	
		& guidance	CO2 To increase in decision making ability
			CO3 To increase in thinking process ability
			CO4 To increase in emotional intensity



Department of Political Science

The Outcomes of UG Course, B. A. in Political Science (General) At the Completion of B. A. in Political Science (General) the Students: Programme Outcomes (POs) –

Name of the Program	Program code	Program outcome
Bachelor of Arts	BA	PO1 Students enable to develop academic proficiency in the subfields of Indian Government and Politics, Comparative Government, International Relations, Public Administration, Political Theory, and Political Ideology. PO2 Students enable to develop and be able to demonstrate skills in conducting as well as presenting research in political science. PO3 Students enable to analyze political and policy problems and formulate policy options. PO4 Students enable to discuss the major theories and concepts of political science and its subfields, and also deliver thoughtful and well articulated presentations of research findings.

Program Specific Outcomes

Name of the	Program specific outcome			
Department				
Department of	PO1 : Students enable to discuss about Indian Constitution and Political			
Political Science	process. PO2: Students enable to discuss Political thinking in western world. PO3: Ability to describe Administrative Process and thinking in western thinking, as well as Indian context PO4: Capacity to analyses Political Theory and its contemporary impact on civilization PO5: Serve as political party member, political adviser, and well citizen of India. PO6: Work in elections and political as well as administrative system			

Name of the	Class	Course Name	Course	Course Outcome
Department			code	
Political	FYBA	Introduction	1116 1A	CO1 Students enable to appreciate the
Science G1	Sem.1	to Indian		various phases of Indian national
		Constitution		movement.



Political	FYBA	Introduction	11162A	CO2 Students enable to identify the causes, impact of British colonial rule. CO3 Students enable to understand the philosophy of Indian constitution CO4 Students enable to understand the fundamental Rights, Duties, and Directive Principles. CO5 Students enable to understand federal structure of India CO1 Students enable to Know Structure
Science G1	Sem.2	to Indian		And Power Of Union Legislature
		Constitution		CO 2 Students enable to Know State
				Legislature –
				CO 3 Students enable to Know Union Executive
				CO 4 Students enable to Know State
				Executive
				CO 5 Students enable to Know Judiciary
				CO 6 Students enable to Know Electoral System
Political	SYBA	An	23163	CO 1 Students enable to understand The
Science G2	STDA Sem.3	Introduction	23103	Study of Political Science
		to Political		CO 2 Students enable to acquaint with
		Science		Approaches to Study Political Science
				such as Normative, Empirical, Feminist CO 3 Students enable to know Basic
				Concepts of The State, The Market, The
				Civil Society.
				CO 4 Students enable to understand the
				various types of Democracy such as Representative, Deliberative, and
				Participatory.
Political	SYBA	An	24163	CO 1 Students enable to understand The
Science G2	Sem.4	Introduction		Study of Basic Political Values like
		to Political Science		Liberty ,Equality , Justice CO 2 Students enable to acquaint with :
		Scionec		Rights: Definition and Meaning, Types
				and Challenges
				CO 3 Students enable to know the study
				of Ideologies such as Nationalism, Socialism, Fascism
				CO 4 Students enable to understand
				concept of International Organizations
				like United Nations – Structures,



				Functions and Challenges , Regional organizations such as — European union , SAARC, OPEC, NATO and MNCs
Political Science G3	TYBA G-3	Political Ideologies	3167	CO 1 Students enable to study State Origin, Meaning, Definition, Nature and Scope of Ideology; CO 2 Students enable to discuss Meaning, Definitions and Elements Nationalism, Progressive and Reactionary Nationalism, Internationalism; CO 3 Students enable to describe Meaning, Nature and Features, Achievements and Limitations Democratic Socialism, Types of Fabianism, Syndicalism, Guild Socialism; CO 4 Students enable to discuss State Factors responsible for the rise of Fascism, Principles of Fascism, and Concept of Corporate State; CO 5 Students enable to discuss meaning Marxism, Concept of Historical Materialism, Theory of Surplus Value and Marxian State; CO 6 Students enable to discuss thoughts of Phule and Ambedkar on Equality, Religion, and Democracy. CO 7 Students enable to discuss meaning of Gandhism, Truth and Non-Violence, Theory of Satyagraha, Gram Swaraj; CO 8 Students enable to discuss Meaning and Nature Feminism, Liberal Feminism, Feminism in India, Caste, Patriarchy, Women's Representation



Department of History

The Outcomes of UG & PG Course, B. A. in History (Special, General) Program Specific Outcomes

Name of the Department	Program specific outcome			
Department of History	PSO 1:- Understand, National, Regional, International history for			
	developing historical sense.			
	PSO 2:- Understand Indian culture in reality			
	PSO 3:- Develop the feeling of patriotism and Nationalism			
	PSO 4:- Prepare themselves for competitive carriers in fields like civil			
	services and teaching.			
	PSO 5:- Critically analyse the various sources of history.			

Name of the	Class	Course	Course	Course Outcome
Department		Name	code	
History	FYBA	Early	11171	CO1 . Students enable to understand the history
	Sem.1	India:		of early India from the prehistoric times to the
		From		age of the Mauryas.
		Prehisto		CO2 Students enable to highlight the factors
		ry to the		and forces behind the rise, growth and spread of
		Age of		civilization and culture of India along with the
		the		dynastic history.
		Mauryas		CO3 Students enable to understand the
				contribution of Early Indians to polity, art,
				literature, philosophy, religion and science and
				technology
				CO4 .It also aims to foster the spirit of enquiry
				among the students by studying the major
				developments in early Indian history.
History	FYBA	Early	11172	CO1 Students enable to understand the
ĭ	Sem.2	India:		developments in early India after the Mauryas,
		Post		which finally led to the transition to medieval
		Maurya		India
		n Age to		CO2 Students enable to understand to highlight
		the		the consequences of the foreign invasions,
		Rashtra		particularly on the polity, economy, society and
		kutas		art and architecture.



History	SYBA	History of	2177	CO1 Student will develop the ability to analyse
IIIStui y	BIDA	the	21//	sources for Maratha History.
		Marathas:		CO2 Student will learn significance of regional
		(1630-1707)		history and political foundation of the region.
		(1030-1707)		1 7 1
				CO3 It will enhance their perception of 17th
				century Maharashtra and India in context of
				Maratha history.
				CO4 Appreciate the skills of leadership and the
				administrative system of the Marathas
History	SYBA	Medieval	2178	CO1 Students understand the foundation of the
	Sem.3	India -		Delhi sultanate and the Sultanate
		Sultanate		administration.
		Period		CO2 Students understand Recognise the Socio,
				economic and religious conditions under
				Vijayanagar Empire.
				CO3 Identify the condition of India under the
				Mughal Empire.
				CO4 Explain the Administration and art and
				architecture of Mughals.
				CO5 Analyse the rise of the Marathas and the
				contribution of Shivaji
Listom	SYBA	Climpaga of	2179	
History	SIDA	Glimpses of the Modern	21/9	CO1 It will enable students to develop the
				overall understanding of the Modern World.
		World - Part		CO 2. The students will get acquainted with the
		I		Renaissance, major political, socio-religious and
				economic developments during the Modern
				World.
				CO3. It will enhance their perception of the
				history of the Modern World.
				COI4. It will enable students to understand the
				significance of the intellectual, economic,
				political developments in the Modern World.
History	TYBA	History Of	3177	CO1. To enable students to understand the
		The World		economic transition in World during the 20th
		in 20th		Century.
		Century		CO2. Become aware of the principles, forces,
		(1914		processes and problems of the recent times.
		Century		CO3. To acquaint the students with growth of
		(1914		various political movements that shaped the
				modern world.
				CO4. To highlight the rise and growth of
				nationalism as a movement in different parts of
				the world.
History	TYBA	Introduction	3178	CO1. To orient students about how history is
		to History		studied, written and understood.
		10 1115101 y	1	station, written and understood.



	I			GO2 TF 11 1 1 1 1 1 1 1 1
				CO2. To explain methods and tools of data
				collection
				CO3. To understand the meaning of Evolution of
				Historiography.
				CO4. To study the Various Views of
				Historiography.
				CO5. To study the approaches to Historiography.
				CO6. To study the types of Indian
				Historiography.
				CO7. To describe importance of inter-
				disciplinary research.
				CO8. To introduce students to the basics of
				research.
				CO9. To acquaint the student with the recent
				research in History.
				CO10. Learn how to use sources in their
				presentation
Higtory	TYBA	History Of	3179	CO1. To orient the students with political history
History	IIDA	•	31/9	of Asia.
		Asia In 20th		
		Century		CO2. To enable students to understand the
		(1914 –1992)		economic transition in Asia during 20th
				Centuries.
				CO3. Understand the important developments in
				the 20th century Asia in a Thematic approach.
				CO4. To provide students with an overall view
				and broad perspective different movements
				connected with Nationalist aspirations in the
				region of Asia in general.
				CO5. To empower students to cope with the
				challenges of globalization.



Department of Economics Program Specific Outcomes

Name of the	Program Outcomes				
Program					
	After successfully completing B.A. Economics Programme students will be able to: Program Outcomes (PO's) Economics				
Bachelor of Arts	PO1: Technical knowledge: use various tools for economic analysis and				
	apply knowledge of the Micro and Macro approach for the personal benefit and				
	for the benefit of national and the global economy.				
	PO2: Problem analysis: recognize formulate and study the problems of				
	various sectors of the Indian economy, regional economy and the global				
	economy with the help of the economic ways of thinking, theories, concepts				
	and laws				
	PO3: Design/development of solutions: Design policies and solutions for the				
	economic problems of India and the global economy at large.				
	PO4 :Modern tool usage: Create, select, and apply appropriate techniques,				
	resources, and modern IT tools for economic analysis				
	PO5: The student and society: Apply the knowledge of economic conce				
	laws and theories, for a better economic environment for the society at large.				
	PO6: Environment and sustainability: develop an economic way of thinking				
	leading to the economic growth, protecting environment with sustainable				
	development				
	PO7: Ethics: inculcate ethical values in the business and the government				
	sector and define responsibilities and norms in the business environment and				
	the policies of the government in the context of the welfare of the society				
	PO8: Individual and team work: work efficiently as an individual, and as a				
	part or leader of a team, having interdisciplinary approach through the study of				
	International Economics.				
	PO9 : Communication: Communicate effectively on the economic activities				



with the community and the society through the acquiring knowledge of the national and the global economy.

PO10: **Project management and finance:** apply knowledge of the economic principles, functioning of various sectors of the economy as an individual on various private and government projects and devise sources of finance.

POS11: Life-long learning: understand the nature of any discipline as a continuous process of development and welfare of the human being.

Program Specific Outcomes

Name of the Program	Program Outcome
Bachelor of Arts	PSO : Explain the basic concepts, laws and theories related to the economic behaviour of the human being.
	PSO : Inculcate the economic way of thinking.
	PSO: Understand the nature of any discipline as a continuous process of development and welfare of the human being.
	PSO: Enable students to understand and comprehend the current business scenario, agricultural scenario and growth in the Indian context.
	PSO: Understand current industrial, service and other sectorial growth in the Indian context.
	PSO : Apply economic analysis in practice.



Course Outcomes (Semester -Wise)

Name of the	Class	Course	Course Name	Course Outcome
Department		Code		
			Indian	After successfully completing this course,
Economics	FYBA	G-1	Economic	students will be able to:
	SEM-I		Environment	CO1- To familiarize the students with the recent
				developments in the Indian Economy.
				CO2- To provide the students with the
				background of the Indian Economy with focus
				on contemporary issues like economic
				environment.
				CO3-To help the students to prepare for varied
				competitive examinations.
				CO4-To enable students to understand and
				comprehend the current business scenario,
				agricultural scenario and other Sectorial growth
				in the Indian context.
				CO5-To make the student aware of the
				developments such as MSMEs, Digital
				Economy, E-Banking, BPO & KPO, etc.



			After successfully completing this course,
			students will be able to:
FYBA	G-1	Indian	CO1- Students enable to create value in young
SEM-		Economic	youth regarding the patriotism.
II		Environment	CO2- Students enable to understand the various
			Government of Indian acts their provision and
			reforms. Students enable to know the salient
			features in making of Indian constitution.
			CO3- Students enable to appreciate the socio-
			economic political factors which lead to the
			Freedom struggle.
			CO4- Students enable to appreciate the
			fundamental rights and duties and the directive
			principle of state policy.
			CO5- Students enable to evaluate the evolution,
			functioning and consequences of political parties
			in India.
			After successfully completing this course, students will be able to:
SYBA	CC-1C	Financial	CO1- Descried evolution of Financial System in the
SEM-I		System	west and in India.
			CO2- Describe functioning and working of the
			commercial and cooperative banks.
			CO3- Explain functions and working of the central
			bank of country and Reserve Bank of India.
			CO4- Explain principles of commercial banks,
			different types of accounts and customers of various types of these banks.
			**
	DCE	3.50	After successfully completing this course, students
	DSE – 1A	Micro	will be able to
	111	Economics	CO1: Describe basic economic problems and look towards the economy with the microeconomic
			approaches.
			CO2: Explain division of market from consumer and
			supply of the products from the producers.
			CO3: Interpret concepts related to utility, demand
			and supply in market.
			CO4: Describe factors of production involved in
			process of production and theories related to their
			pricing



	DSE – 2A	Macro	After successfully completing this course, students will be able to: CO1: Illustrate a macroeconomic approach
	2A	Economics	towards economy in contrast with the
			microeconomic approach.
			CO2: Make a detailed enquiry into generation,
			calculation and measurement of national income CO3: Describe way of money facilitates
			exchanges and develop market and the economy.
			CO4: Explain human behaviour creating
			effective demand which determines level of
			output and employment in economy.
			CO5: Evaluate developments in theory of
			employment of economics.
CX/D A	CC 1D		After successfully completing this course,
SYBA SEM-	CC-1D	Financial	students will be able to:
II		System	PO1- Examine supply of money in economy and
			its control by the Reserve Bank of India.
			CO2 - Analyze functioning and usage of various types of negotiable instruments used in financial
			sector of the economy.
			CO3- Evaluate developments and challenges in
			the sector of the cooperative banking India
			CO4- Describe new applications of technology
			evolved in the banking sector.
			After successfully completing this course
			After successfully completing this course, students will be able to
	DSE -	Micro	CO1: Analyse process of production in
	2A	Economics	economy, laws and variables related to the
			production function.
			CO2: Demonstrate various forms of market and
			price determination concept of firm.
			CO3: Describe welfare economics, and variables
			involved in the welfare function and thoughts of
			the welfare economists.
			CO4: Apply the tools used for economic
			analysis.
			After successfully completing this course, students will be able to:
			students will be able to:



	DSE – 2A	Macro Economics	CO1: Analyse approaches towards value of money and price level in economy. CO2: Interpret causes and controlling measures of cyclical fluctuations in economy. CO3: Assess macro policies-monetary and fiscal and its applications in the functioning of the economy. CO4: Interpret causes, effects and controlling measures of inflation and deflation.
	YBA SEC-I SEC2A	Basic Concept of Research Methodology -I (Skill Enhancement Course) (SEC)	After successfully completing this course, students will be able to: CO1- Demonstrate his/her understanding of sampling methods and the ability to use collection of data. CO2- Identify the appropriate sample techniques for different kinds of research questions.
Sl	YBA SEC-II EM- II SEC- 2B	Basic Concept of Research Methodology - II (Skill Enhancement Course) (SEC)	After successfully completing this course, students will be able to: CO1- Identify the appropriate source of data in relation to the collection of Research data. CO2- Able to classify and present the collected data in the form of graph, bar diagram, chart etc
T	YBA 3157	Economic Development and Planning (G3)	After successfully completing this course, students will be able to: CO1: Describe concepts of Development and Growth of economies. CO2: Describe characteristics of developed or developing economies. CO3: Analyze constraints of process of development of various countries. CO4: Evaluate theories and ways of development of economies. CO5: Illustrate role of foreign capital in undeveloped economies.



			CO6: Appraise approaches towards process of development take place in an economy CO7: Assess instruments of macroeconomic policies, monetary and fiscal along with their role in Controlling cyclical fluctuations in an economy. CO8: Explain overview of economic planning in India and inclusive approach towards growth of the Indian economy.
ТҮВА	3158	International Economics	After successfully completing this course, students will be able to: CO1: Describe international economics of open economies and international trade flows among
			various countries. CO2: Evaluate theories related to international trade for profit maximization. CO3: Analyze process of gains from trade and determination of terms of trade. CO4: Describe concept of balance of payments and measures to correct deficit in balance of payments. CO5: Assess trade policy and concepts related to trade policy like quotas tariffs and exchange rates. CO6: Interpret India's foreign trade, policy and its participation in international trade
			organizations like World Trade Organization. CO7: Demonstrate measures to promote export and regulation of foreign trade in India.



TYBA	3159	Public Finance	After successfully completing this course, students will be able to: CO1: Describe role of Government in an economy and way of maximum social advantage in view of Dr. Dalton. CO2: Describe sources of income, types and principles of expenditure of government and general importance of public finance. CO3: Analyse public expenditure in India and effects of current trend of growth in public expenditure CO4: Analyse concepts and principles related to public revenue, taxation and status of Indian taxation. CO5: Examine external and internal debts of government and ways to repay public debts. CO6: Illustrate concepts of budgeting and Indian budgeting with special reference to gender budget. CO7: Describe purpose and process of deficit financing in economy and trends in deficit financing in India. CO8: Describe federal finance in India and problems related to center and state financial
FYB.C om SEM-I		Business Economics	relationships. After successfully completing this course, students will be able to: CO1- Ability to apply the concepts of micro economics such as demand, supply, revenue, cost, elasticity, etc. CO2- Ability to analyze and demonstrate knowledge of the basic theories/laws in economics- law of demand, law of supply, production function, etc CO3- At the end of the course, the student



C	TYB Com SEM- I	Business Economics	should be able to evaluate Microeconomic concepts, models and its use in real life situations. After successfully completing this course, students will be able to: CO1- The students acquire the knowledge of Demand forecasting in sales management, Price fixing, market competitors. CO2- To understand how the business organizations work by applying economic
C	ZYB 233 Com SEM-I	Business Economics (Macro	principles in their business management. After successfully completing this course, students will be able to: CO1: Explain nature, scope, importance and limitations of Macro Economics. CO2: Describe concepts and measurements of National Income of India. CO3: Describe functions of Money and control of credit by RBI in Indian economy.
C	ZYB 233 Com SEM- I	Business Economics (Macro)	After successfully completing this course, students will be able to: CO1: Explain concept of value Money and theories of value of Money. CO2: Analyze causes and its effects of Inflation and Deflation in Indian economy. CO3: Explain features and phases of trade cycle of Economy.



TYBO			After successfully completing this course,
OM	202()	T 10 1	students will be able to:
	302(A)	Indian and Global	CO1: Describe comparison of Indian economy
		Economic Development	with developed economies.
		_	CO2: Explain agricultural development in India
			science independence.
			CO3: Describe industrial development in India
			since 1991.
			CO4: Describe infrastructural development in
			India since 1991.
			CO5: Describe concept of Human Resource
			Development in world.
			CO6: Explain role of foreign capital in global
			economic development.
			CO7: Illustrate concept of balance of trade and
			balance of payment in relation with foreign trade
			CO8: Elaborate objectives and structure of
			reginal and international economic cooperation.

Name of the	Program Outcomes
Program	
Master of	After successfully completing M.A. Economics Programme students will be able to:
Arts	Program Outcomes (PO's) Economics
	PO1: Technical knowledge: use various tools for economic analysis and apply knowledge
	of the Micro approach for the Individual benefit.
	PO2: Problem analysis: student should be able to evaluate
	Micro economic concepts, models and its use in real life situations.
	PO3: Design/development of solutions: Design policies and solutions for the economic
	problems of India and the global economy at large.
	PO4: Modern tool usage: Create, select, and apply appropriate techniques, resources, and
	modern IT tools for economic analysis
	PO5: Environment and sustainability: develop an economic way of thinking leading to



the economic growth, protecting environment with sustainable development

PO6: Ethics: inculcate ethical values in the business and the government sector and define responsibilities and norms in the business environment and the policies of the government in the context of the welfare of the society.

PO7: Prepare students to develop critical thinking to carry out investigation about various socio-economic issues objectively while bridging the gap between theory and practice.

PO8: Equip the student with skills to analyse problems, formulate an hypothesis, evaluate and validate results and draw reasonable conclusions thereof.

PO9: Prepare students for pursuing research or careers that provide employment through entrepreneurship and innovative methods. Because today's unemployment problem can also be solved by developing the micro and small entrepreneurship

PO10: Prepare students to develop own thinking /opinion regarding current national or international policies and issues.

Program Specific Outcomes

Name of the Program	Program Outcome
Master of Arts	PSO : Explain the basic concepts, laws and theories related to the
	economic behaviour of the human being.
	PSO : Inculcate the economic way of thinking.
	PSO : Apply economic analysis in practice.
	PSO: Understand the nature of any discipline as a continuous
	process of development and welfare of the human being.
	PSO: discuss the modern developments in economics such as
	Modern theories in Economics.
	PSO: To provide the students with a unique opportunity of
	obtaining a professional qualification in economics focusing on
	the advanced practical areas.
	PSO: Understand basic concepts of economics and to analyse
	economic behaviour in practice
	PSO: Understand the economic way of thinking.
	PSO: The ability to analyse historical and current events from an
	economic perspective.
	PSO: The ability to write clearly expressing an economic point
	of view.
	PSO: Students will be able to effectively communicate economic
	ideas.
	PSO: Be exposed to alternative approaches to economic
	problems through exposure toCourse work in allied fields.



Name of the Department	Class	Course Code	Course Name	Course Outcome
Economics	MA I SEM I	EC-1001	Micro Economic Analysis I	CO1- To apply the concepts of micro economics such as demand, supply, Revenue, cost, elasticity, etc. CO2- To to analyze and demonstrate knowledge of the basic theories/laws in micro economics
		EC-1002	Public Economics I	After successfully completing this course, students will be able to: CO1: Describe role of Government in an economy CO2: Describe sources of income, types and principles of expenditure of government and general importance of public finance. CO3: Analyse public expenditure in India and effects of current trend of growth in public expenditure
		EC-1003	International Trade	After successfully completing this course, students will be able to: CO1: Describe international economics of open economies and international trade flows among various countries. CO2: Evaluate theories related to international trade for profit maximization. CO3: Analyse process of gains from trade and determination of terms of trade. CO4: Describe concept of balance of payments and measures to correct deficit in balance of payments.
		EC-1004	Rural Economics	After successfully completing this course, students will be able to: PO1- Ability to develop an understanding of the rural sector with its intricacies and imperfections and to be able to construct intellectual dialogue on the Challenges of agriculture sector of the Indian Economy.



 T	1	1	
			CO2 Ability to analyze and evaluate the subject
			with reference to various aspects of rural
			economies
			CO3- discussed and analyzed that concern
			sustainable development of rural economies.
			CO4- Describe new applications of technology
			evolved in the banking sector.
MA I	EC-2001	Micro	CO1- The students acquire the knowledge of
SEM II		Economic	Demand forecasting in sales management, Price
		Analysis II	fixing, market competitors.
			CO2- student should be able to evaluate Micro
			economic concepts, models and its use in real life
			situations
	EC-2002	Public	After successfully completing this course,
		Economics II	students will be able to:
			CO1: Analyse concepts and principles related to
			public revenue, taxation and status of Indian
			taxation.
			CO2: Examine external and internal debts of
			government and ways to repay public debts.
			CO3: Illustrate concepts of budgeting and Indian
			budgeting with special reference to gender
			budget.
	EC-2003	International	After successfully completing this course,
		Finance	students will be able to:
			CO1: Assess trade policy and concepts related to
			trade policy like quotas tariffs and exchange
			rates.
			CO2: Interpret India's foreign trade, policy and
			its participation in international trade
			organisations like World Trade Organisation.
			CO3: Ability to understand the recent
			developments and changes in international
			banking, international banking agreements etc.
			CO4: Ability to understand the role of
			international economic organization and global
	EC 2004	I ah au	crisis development.
	EC-2004	Labour Economics	After successfully completing this course,
		Leonomics	students will be able to:



MA II SEM I	EC-3001	Macro Economics	PO1: Ability to analyze and evaluate the subject with reference to various aspects of Labour economics. PO2: Ability to develop an understanding of the labour with its intricacies and imperfections and to be able to construct intellectual dialogue on the Challenges of labour w.r.t. the Indian Economy. After successfully completing this course, students will be able to:
SEAT I		Analysis-I	PO1:To understand Macroeconomics into only a cientific method of analysis; but also a body of impirical economic knowledge. PO2:To stimulate among the students an awareness on macroeconomic challenges and policy management in progressive nations PO3: Understand various concepts of National income. PO4:To discuss the modern developments in macroeconomics. PO5:To understand Determination of output and employment Effects of change in Aggregate Demand and Supply Curves - Classical Approach. PO6:Understand nature classical & Keynesian theories of employment PO7:To understand Fiscal policy and crowding out effect, Optimum Policy mix with IS-LM Model. PO8:Understand measures of money supply. PO9:Understand various theories of demand for money. PO10:To provide a thorough understanding of the principles of macroeconomics and the application of macro economics concepts in real-life situations.
	EC-3002	Growth & Development -I	After successfully completing this course, students will be able to: PO1:Understand conceptualizing growth and development, Characteristics of LDCs. PO2:To enable learning and understanding of the basic concepts and process to measure the growth and economic development etc.



			PO3:To understand the world distribution of income and Development gap. PO4:Understand concept of poverty & development PO5:Understand population & human development PO6:To understand Theories of Economic Growth and Development To analyze and evaluate the obstacles in the process of economic growth and development
	EC-3003	Research Methodology- I	After successfully completing this course, students will be able to: PO1:To learn and appreciate alternative methodologies in terms of sampling designs, data collection techniques and in the methods of data analysis. PO2:Understand concepts of research designing PO3:Understand concepts of hypothesis testing methods PO4:Able to understand measuring central tendency PO5:Able to understand dispersion and coefficient PO6:Able to understand methods of Correlation PO7:Understand contents of report writing PO8:To enable an understanding of Research and its methods under various areas of economics. To demonstrate the practical and the applied aspects of research in relation to Economics.



	EC-3004	Demography	After successfully completing this course,
			students will be able to
			PO1:To understand Nature, Scope and
			Relationship between development and
			Population Growth.
			PO2: Understand various theories of Population.
			PO3:To understand Structure and characteristics
			Indian population.
			PO4: To understand an analysis of Indian
			population policy.
			PO5: To provide an understanding of
			Demography and its application under various
			topics under economics.
			To demonstrate the practical and the applied aspects of Demography and the study of Population and its relation to Economics.
MA II SEM II	EC-4001	Macro I Economics Analysis II	After successfully completing this course, students will be able to: PO1:To learn and appreciate alternative methodologies in terms of sampling designs, data collection techniques and in the methods of data analysis.
			PO2: Understand concepts of research designing. PO3:Understand concepts of hypothesis testing methods PO4:Able to understand measuring central tendency PO5:Able to understand dispersion and coefficient PO6:Able to understand methods of correlation PO7:Understand contents of report writing PO8:To enable an understanding of Research and its methods under various areas of economics. To demonstrate the practical and the applied aspects of research in relation to Economics.
	EC-4002	Growth &	After successfully completing this course,
		Development	students will be able to:
		II	PO1:Understand the role of agriculture and
			Industry in development.
			PO2:To understand the employment argument
j	I	<u> </u>	1 7 0



			Police Environment.
			PO3:Understand issues & techniques of
			economic growth.
			PO4: Understand some growth models
			PO5 :Students will be able to describe Trade as an
			engine of growth.
			PO6: To understand the role of IMF, World
			Bank, FII and FDI.
			PO7:To understand the role of the
			government and markets in the developmental
			process
			PO8 :To enable learning and understanding of the
			basic concepts and process to measure the growth
			and economic development etc.
			To analyze and evaluate the obstacles in the
			process of economic growth and development.
	EC-4003	Research	After successfully completing this course,
		Project(Only	students will be able to:
		Regular	PO1:To learn and appreciate alternative
		Students)	methodologies in terms of sampling designs, data
			collection techniques and in the methods of data analysis.
			•
			PO2:Understand concepts of research designing
			PO3:Understand concepts of hypothesis testing
			methods
			PO4:Able to understand measuring central
			tendency
			PO5:Able to understand dispersion and co-
			efficient
			PO6: Able to understand methods of correlation
			PO7:Understand contents of report writing
			PO8 :To enable an understanding of Research and its methods under various areas of economics.
			To demonstrate the practical and the applied
i I			aspects of research in relation to Economics.



EC-4004	Economics of	After successfully completing this course,
	Environment	students will be able to
		PO1:To discuss various analytical tools to comprehend various environmental issues. PO2: Analyze and evaluate the subject with reference to various aspects of the economics of
		environment. PO3: Develop an understanding of the economics of environment and various
		PO4: Analytical tools to comprehend environmental issues.



Faculty of Commerce

Programme: B.Com (Banking & Costing)

Programme Outcomes (POs)-B.COM

Sr. No.	Programme Outcomes				
1	Competent Business Manager Associates with requisite knowledge, skills				
	and right attitude which is need of today's market scenario				
2	Good Accountant with necessary skill acquired through some add-on				
	courses				
3	Prospective Leader of Global Business Houses				
4	Future Entrepreneur with professional and ethical values				
5	Learning Attitude to Sustain in Global Competitive world				

Programme Specific Outcomes (PSOs)

Sr. No.	Programme Specific Outcomes (Banking and Finance)
1	1. Gain an insight into the functioning role of financial instructions in the
	Indian economy.
2	Understand of operations and developments in financial market in India.
3	Get acquainted with Banking Law and Practice in relation to the Banking system
	in India.
4	Understand the legal aspects of Banking transactions and its implications as
	Banker and Customer.
5	Become aware of the Banking Law and Practice in India.

Sr. No.	Programme Specific Outcomes (Cost and Works Accounting)		
1	Able to understand basic concepts in Cost & Works Accounting		
2	Able to classify the expenditure, analyses it, prepare report and comment		
	on it.		
3	Apply the knowledge to prepare cost sheet and work in a costing		
	department of any organization as an associate.		
4	Able to work and handle inventory/store department as a store keeper		
5	Prepare for post graduate studies and to achieve success in their		
	professional careers.		



Course Outcome (COs):

Programme	Course	Course	Course Outcome
	Code	Name Compulsory	-
	101	English	
	102	Financial Accounting	CO1 The concepts, nature and purpose of financial statements in relationship to decision making. CO2 How to use the fundamental accounting equation to analyze the effect of business transactions on an organization's accounting records and financial statements. CO3 How to use a basic accounting system to create the data needed to solve a variety of business problems. CO4 How to use accounting information to solve a variety of business problems.
	103	Business Economics (Micro)	-
F. Y. B.Com	104(A)	Business Mathematics and Statistics	CO1 Prepare for competitive examination. CO2 Understand the concept of simple ,compound interest CO3 Know about concept of population, sample & frequency distribution to make decision. CO4 Understand technique of different type of Index Number (SENSEX & NIFTHY)
		Org. Skill Developmen t	
	Banking and Finance 105 Commercial		CO1 Student is acquaint with theoretical knowledge of Evolution, functions, services of banks CO2 Student can open and operate his bank account. CO3 Student will know different instruments used in banking with their legal aspect. CO1. The concept of Organization and
		Geography	Modern Office. CO 2. The role and Functions of Office Manager. CO 3. How to develop the insights



	T	1	T		
			regarding Organizational Skills for Office Managers. CO 4. The functioning of Modern office appliances equipments and e- format records.		
	106	Consumer Protection and Busi. Ethiscs	CO1. Aware about consumer right, Duties and mechanism for resolving their disputes. CO2. Understand about low relating to consumers. CO3. Know students with role of business ethics in various functional areas.		
	107	Marathi	-		
	107	Hindi	-		
S. Y. B.Com	201	Business Communica tion	CO1.The concept, process and importance of communication. CO2.The new technologies in business communication. CO3. How to use various soft skills in business. CO4. How to draft various letters in business. CO5. Business communication skills through the application and exercises.		
	202	Corporate Accounting	CO1. Corporate Accounting in conformity with the provisions of Companies Act and Accounting as per Indian Accounting Standards. CO2. The conceptual aspect of corporate accounting. CO3. Various skills about Computerized Accounting and Accounting Standards. CO4. Various concepts related to companies CO5. i.e. liquidation, amalgamation, absorption, re-construction and holding company.		
	203	Business Economics (Macro)	-		
	204	Business Managemen t	CO1.Understand basic knowledge and business management concept. CO2. Know about various function of		



		T	
			management.
		Elements of	
		Company	formation of company up to winding up of
		Law	the company.
	205		CO2. Student understands the roles, duties and responsibilities of key persons
			CO3. Student acquaint with the knowledge
			of various documents involved in from
			formation up winding up of company.
		Banking	CO1. Role and structure of Indian banking
		and Finance	system.
			CO2. Various types of banks and their
			special features.
			CO3. The reforms and other developments in
			the Indian Banking. CO4.The functions and role of Reserve
	206		Bank of India
	200	Cost and	CO1. Student is acquaint with basics of cost
		Works	accounting
		Accounting	CO2.Student can classify, analyses,
			summarize and comment on cost data
			CO3.Student learns procedural aspect in
			handling, recording of material and how to
		D	maintain various books of materials
		Busi.	CO1. The basic concepts of contract and its contents.
		Regulatory Framework	CO2. Acquaint with knowledge of nature
		(M. Law)	and performance and breach of Contracts.
	351	(=:2:2:411)	CO3.Handling the registration and
			dissolution of LLP
			CO4.To get training to face emerging
			issues relating Sale of Goods Act.
T 37		A 3	CO1 Davidania and L. C.
T. Y. B.Com		Advanced	CO1.Developing understanding on applicability of various accounting
D.COIII		Accounting	standards.
			CO2.Knowledge about of the accounting
			for capital restructuring.
	352		CO3.Conceptual Clarity and Practical
			understanding of preparation of final
			accounts of banking companies
			CO4.Concept of analysis of financial
			statements.



		Indian and		
		Global Eco.		
	1 151	Developmen		
		t		
		Auditing	CO1. Acquaint with knowledge and maturity	
		and	to understand concept of Auditing, types of	
		Taxation	Audit and Audit Process.	
		Taxation	CO2. Conceptual Clarity and Practical	
			understanding of Vouching Verification and	
			valuation and Types of Audit Report.	
			CO3. The concept and principles of Auditing,	
	354		Audit process, Assurance Standards, Tax	
			Audit, and Audit of computerized Systems.	
			CO4.Understanding new concepts under	
			Audit of Computerized Systems & Forensic	
			Audit	
			CO5.How to prepare the Audit report	
			and its importance.	
		Banking	CO1.Understanding the Indian Financial	
		And	System. Understanding the meaning,	
		Finance – II	structure and role of Financial System in	
	255D		India.	
	355B		CO2.Understanding the meaning, functions,	
			credit instruments, deficiencies and recent development in Money Market in India.	
			CO3.Understanding the meaning, definition	
			functions, credit instruments, deficiencies	
			and recent development in Capital Market in	
			India	
			CO4.The Financial Markets and its various	
			segments.	
			CO5.The operations and developments in	
			financial markets in India.	
		Cost and	CO1.To remember and understand the	
		works	concept of overhead and classification of	
	a	accounting	overheads	
	355E	– II	CO2.Understanding the significance of	
			overheads in the total cost of product/service.	
			CO3.Know about various methods of costing	
		Donking	and their applications.	
		Banking And	CO1.Understanding the Banking Regulation	
356 B		Finance –	Act 1949 with Objectives and selective Provisions.	
		III	CO2.Understanding the Provisions of	
		1111	CO2. Onderstanding the Hovisions of	



		Negotiable Instruments Act, 1881 CO3.Banking Law and Practice in relation to the Banking system in India. CO4.The legal aspects of Banking transactions and its implications as Banker and Customer.
356 E	Cost and works accounting – III	CO1. Understanding of important concepts in Marginal Costing. CO2. Application of Marginal Costing Technique. CO3. Management information system in Costing. CO4. Cost Accounting Standards issued by



Faculty of Science

Program outcome

Bachelor of Science

Program	Program outcome		
code			
	PO1 Acquire the knowledge with facts and figures related to various subjects		
	in pure sciences such as Chemistry, Botany, Zoology, Microbiology, Physics		
	Mathematics, etc.		
	PO2 Understand the basic concepts, fundamental principles and the scientific		
	theories related to various scientific phenomena and their relevancies in the		
	day-to-day life.		
	PO3 Acquire the skills in handling scientific instruments, planning and		
	performing in laboratory experiments.		
	PO4 The skills of observations and drawing logical inferences from the		
	scientific experiments.		
	PO4 Analyse the given scientific data critically and systematically and the		
	ability to draw the objective conclusions.		
	PO5 Think creatively to propose novel ideas in explaining facts and figures or		
	providing new ideas or new solutions to the problems.		
	PO6 Realise the knowledge of subjects in other faculties such as humanities,		
	performing arts, social sciences etc. can have greatly and effectively influence		
	which inspires in evolving new scientific theories and inventions.		
	PO7 Develop scientific outlook not only with respect to science subjects but		
	also in all aspects related to life.		
	PO8 Develop various communication skills such as reading, listening,		
	speaking, etc., which will help in expressing ideas and views clearly and		
	effectively.		
	PO9 Imbibed ethical, moral and social values in personal and social life		
	leading to highly cultured and civilized personality.		
	PO10 Develop flair by participating in various social and cultural activities		
	voluntarily, in order to spread knowledge, creating awareness about the social		
	evils, blind faith, etc.		
	Program code		



Department of Microbiology Program specific outcome

Program specific outcome
A general course emphasizing distribution, morphology and
physiology of microorganisms in addition to skills in aseptic
procedures, isolation and identification. This course also
includes more material covering Immunology, Molecular
Biology, Medical microbiology, Biochemistry, Fermentation
Technology, Applied microbiology etc.
PSO1.Students will be able to communicate scientific
information effectively, especially relating to microbiological
organisms, and the roles of microbial organisms in ecosystem
function and health-related issues
PSO2. Students will be able to collect, analyze and interpret
scientific data, including developing a familiarity with
microbiology laboratory techniques and safety procedures
PSO3. Students will be able to apply the scientific method as a
demonstration that they understand its application furthering
our knowledge of the microbial world
PSO4.Students will be able to describe fundamental
principles of biology e.g., central dogma, diversity of life,
inheritance and how these principles relate to microorganism
PSO5.Students will be able to describe unique microbial
genetic systems (i.e., prokaryotic genomes, lateral gene
transfer, plasmid structure and function, etc.)
PSO6.Students will appreciate the biological diversity of
microbial forms, and appreciate that this diversity results from
evolutionary processes
PSO7. Students will gain familiarity with the unique role of



microbes play in genetic modification technologies (i.e., creation of GMOs, industrial applications, gene therapy, etc.)

PSO8.Students will gain familiarity with the role of microbes in human disease, the role of microbes in issues of international health, and the human immune response to microbial infection

PSO9.Students will gain familiarity with the role of microbes in the context of acceptance function (a.g., microbial accelery).

PSO9.Students will gain familiarity with the role of microbes in the context of ecosystem function (e.g., microbial ecology, microbiome, etc.)

Course outcomes (Semester-wise)

Name of the	Class	Course Name	Course	Course Outcome
Department			code	
Microbiology	F.Y.BSc	Introduction	MB-111	On successful completion of this
		to microbial		subject the students will gain
		world		basic knowledge about
				Microbiology starting from
				history, applications and basic
				knowledge about the
				microorganisms.
				CO1. Get an idea about the
				historical events in microbiology
				co 2. Understand the diversity of
				microbial world existing in the
				nature
				co 3. Understand the taxonomic
				classification of microorganisms.
				CO 4. Know the scope of
				microbiology in varous fields.



				CO 5.To inculcate sense of scientific
				responsibilities and to create social
				and environmental awareness
Microbiology	F.Y.BSc	Basic	MB -112	CO 1. This subject will provide
		techniques in		knowledge of Basic laboratory
		Microbiology		techniques e.g. parts of microscope,
				type and its principles.
				CO 2. Get the theoretical concepts of
				related stain • Understand different
				methods of staining techniques •
				Understand nutritional requirements
				of bacteria .
				CO 3.Understand the basic
				laboratory techniques
				CO 4. Understand working of
				different types of microscopes and
				various microscopy techniques.
				CO 5. Understand the structural
				organization of microbial world.
				CO 6. To introduce the concepts of
				applications and research in
				microbiology
				CO 7. They will be able to illustrate
				the construction and working of
				different fermenters.
Microbiology	F.Y.BSc.	Bacterial cell	MB- 121	CO 1 .To introduce the structure,
		and		chemical composition and
		Biochemistry		functioning of bacterial cell
				components and cellular structures.



				CO 2. To enrich students knowledge
				about bacterial cytology.
				CO 3. Develop the fundamental
				knowledge about various
				biomolecules.
				CO 4. To enrich students knowledge
				about classification of bacteria and
				viruses.
Microbiology	F.Y.BSc	Microbial	MB-122	CO 1. To enrich students' knowledge
		cultivation and		about microbial growth and train
		Growth		them for pure microbial
				Technology.
				CO 2. To make students aware about
				growth parameters and growth
				conditions and to help them in
				preparing laboratory mannuals and
				standard operating practices.
				CO 3. To understand the isolation
				techniques for various
				microorganisms from natural and
				extreme environments and to study
				their prominent features.
				CO 4. motivate students to to built
				their successful career in
				microbiology
Microbiology	S.Y.BSc	Medical	MB-211	CO 1. To inculcate knowledge in
		Microbiology		relationship between human disease
		&		and micro organisms, pathogenicity,
		Immunology		laboratory diagnosis and treatment



				methods.
				CO 2. The course provides the
				conceptual basis for understanding
				pathogenic microorganisms and the
				mechanisms by which they cause
				disease in the human body.
				CO 3. It also provides opportunities
				to develop informatics and
				diagnostic skills, including the use
				and interpretation of laboratory tests
				in the diagnosis of infectious
				diseases.
				CO 4. Demonstrate an understanding
				of key concepts in immunology.
				CO 5.Understand the overall
				organization of the immune system
Microbiology	S.Y.BSc	Bacterial	MB -212	CO 1. Conceptual knowledge of
		physiology &		properties, structure, function of
		Fermentation		enzymes
		thechnology		CO 2. They will be able to explain
				the importance of enzymes in living
				cell and distinguish between
				different classes of enzymes and
				their function
				CO 3. Students will be able to
				illustrate and explains the various
				metabolic pathways of the cell in
				particular prokaryotic.
				CO 4. They will be able to explain



				the method of cultivation of
				microorganisms on large scale.
				CO 5. They will be able to
				distinguish between the types of
				fermentation processes and
				fermentors.
				CO 6. They will be able to illustrate
				the construction and working of
				different fermenters.
Microbiology	S.Y.BSc	Bacterial	MB- 221	CO 1. Students will be able to
		Genetics		summarise the basicst of genetics
				eg., DNA, RNA structure.
				co 2. They will be able to
				paraphrase the concept of gene.
				co 3. They will be able to interpret
				the concept of central dogma of
				molecular biology and its
				mechanism.
				CO 4. They will be able to describe
				the basic molecular processes like
				DNA replication, transcription and
				translation.
				CO 5. They will be able to explain
				various types of mutations and their
				causes.
Microbiology	S.Y.BSc	Air, Water	MB-222	CO 1. Students will be able to
		&Soil		summarise both air and water
		Microbiology		microflora.
				CO 2. They will be able to describe
		1		



				various techniques to measure the
				air and water microflora.
				CO 3. To inculcate knowledge in
				role of microorganisms in eco
				system, methods of air sanitation
				,water purification and sewage
				treatment.
				CO 4. They will be able to
				summarise the important soil
				microorganisms. Their role in
				agriculture.
				CO 5. They will be able to inter
				relate that how soil microorganisms
				helps in maintaining with elemental
				cycles in nature.
Microbiology	T.Y.BSc	Medical	MB-	CO 1. To inculcate knowledge in
		Microbiology	331,MB-	relationship between human disease
			341	and micro organisms, pathogenicity,
				laboratory diagnosis and treatment
				methods.
				CO 2. Various concepts of medical
				microbiology
				co 3. Role of international
				organizations such as CDC and
				WHO
				CO 4. Anatomy of human system
				Various chemotherapeutic agent and
				their mode of action



Microbiology	T.Y.BSc	Microbial	MB-	On Successful Completion of this
		Genetics	332,MB-	subject the students should have a
			324	sound knowledge about microbial
				genetics and the Recombinant
				DNA Techniques used in
				microbiological research.
				CO 1. Concept of central dogma of
				molecular biology
				CO 2. Process of DNA replication
				transcription, translation
				co 3. Various method used for
				genetic recombination
				CO 4. Concept of gene regulation
				CO 5. Principals and applications of
				various molecular technique
				CO 6. Gene library and gene
				mapping.
Microbiology	T.Y.BSc	Enzymology	MB-333,	To inculcate knowledge about
				Enzyme structure, function,
				kinetics and application in
				research.
				CO 1. Vitamin as cofactor, its role
				metabolism,
				CO 2. Regulation of enzyme
				CO 3. Various methods used for
				enzyme purification
				CO 4. Enzyme assays
Microbiology	T.Y.BSc	Metabolism	MB-343	On Successful Completion of this
				subject the students should have a



				sound knowledge about
				CO 1. Concept of bioenergetics
				CO 2. Anabolism and catabolism
				with examples
				CO 3. Laws of thermodynamics
Microbiology	T.Y.BSc	Principle of	MB-	To inculcate knowledge in human
		Immunology	334,MB-	immune response towards
			344	microorganisms.
				CO 1. Concept related to cells and
				organs related to immune system
				CO 2. Immune response and immune
				mechanism
				co 3. Immunological disorders
				CO 4. Various antigen antibody
				reaction,
				CO 5. Different immunological
				techniques
				CO 6. Concepts related to
				transplantation
Microbiology	T.Y.BSc	Fermentation	MB-	Enable the student to get sufficient
		technology	335,MB-	knowledge about
			345	CO 1. Strain improvement
				CO 2. Upstream and down stream
				process
				CO 3. Patents
				CO 4. Application of m.o.s capable
				of producing commercially
				important products on industrial
				scale



Microbiology	T.Y.BSc	Food and	MB-336	Enable the student to get sufficient
		Dairy		knowledge in relationship
		Microbiology		between food and microbes,
				techniques used in food
				processing and Dairy industry.
				CO 1. Milk microbiology-
				Preservation technique used in milk
				industry, Check quality of milk
				CO 2. Food microbiology –
				Preservation technique used in food
				industries,
				Microbial food borne illnesses.
Microbiology	T.Y.BSc	Environmental	MB-346	To inculcate knowledge in role of
		and		microorganisms in eco system and
		Agricultural		impact created by microbes in
		Microbiology		agricultural development
				CO 1. Concepts related to Plant
				pathology
				CO 2. Soil microbiology and
				xenobiotics
				CO 3. Microbial waste treatment
				methods
Microbiology	T.Y.BSc	Practical	MB-347	The aim of this is to deliver
		Course-I		practical knowledge and the
		Applied		implementation of the concepts
		Microbiology		studied.
				CO 1. Students will able to estimate
				fermentation product
				CO 2. Students will able to Do



				Isolation and Screening of pesticide
				Degrading bacteria and Lactic Acid
				CO 3. Students will able to Perform
				Quality Assurance Test for
				antibiotics
				CO 4. Students will able to Check
				quality of Milk
				CO 5. Students will able to perfom
				Dye Reduction Test and
				Biosynthesis of Nanoparticles
Microbiology	T.Y.BSc	Practical	MB-348	The aim of this is to deliver
		Course-II		practical knowledge and the
		Biochemistry		implementation of the concepts
		And		studied.
		Molecular		CO 1 Students will able to Estimate
		biology		Clinical Biochemisrty Test for
				Blood fermentation product
				CO 2. Students will able to perfom
				Qalitative and Qantitative
				Biochemical Techniques
				CO 3. Students will able to Perform
				Isolation And Screening of Enzyme
				Producing Organism
				CO 4. Students will able to Isolate
				Bacteriophages , Bacterial Genomic
				DNA
Microbiology	T.Y.BSc	Practical	MB-349	The aim of this is to deliver
		Course III		practical knowledge and the
		Diagnostic		implementation of the concepts



Microbiology	studied.
And	CO 1. Students will able to Perform
Immunology	Microscopic Examination of
	Clinical Samples
	CO 2. Students will able to Do
	Isolation and Identification of
	Clinical Pathogens
	co 3. Students will able to Observe
	Permenant slides of Parasites
	CO 4. Students will able to do
	Epidermiological survey
	CO 5. Students will able to perform
	Immunohematology Tests

Short term Course

Name of the department	Class	Course Name	Course Outcome
Microbiology	S.Y.B.Sc.	Certificate course in pharmaceuti cal techniques	CO 1. To understand the needs of the Pharmaceutical industry. CO 2. Help the students to understand & Description of the English with the Eng
	T.Y.B.Sc.	Quality Manageme nt System & Food Safety Manageme nt System.	CO 1.Students acquire information on Quality Audit CO 2.Process & Decome aware of types of Quality audits such as ISO 9000,ISO14000 etc. CO 3.Student get acquqinted with various stages in food safety. CO 4.Students can write case studies of food industries.



Department of Physics

Program specific outcomes

Name of the Department	Program specific outcome
Physics	PSO1.To provide knowledge of Physics From Nano Particle to Macro Particle through Qualitative and Quantative Analysis PSO2.To make the students aware of applications of different physics aspects
	PSO3. To highlights the potential of these
	studies to become an entrepreneur.
	PSO4. To equipped with skills related
	laboratory as well as field based studies.
	PSO5. To makes the students aware about
	conservation and sustainable use of energy
	PSO6. To create: an interest research field to
	national development.
	PSO7. To address the socio- economical
	challenges related to physical sciences
	PSO8. To facilitates students for taking up and
	shaping a successful career in Physics.

Course outcomes

Name of the	Class	Course	Course	Course Outcome
Department		Name	code	
Physics	F.Y.	Mechanics	PHY-	CO1. Demonstrate an understanding of
	B.Sc.	and	111	Newton's laws and applying them in
	SEM-I	Properties		Calculations of the motion of simple systems.
		of Matter		CO2. Understand the concepts of energy,



		work, power, the concepts of conservation of
		energy elasticity and be able to perform
		calculations using them.
		CO3. To Understand the Concept of
		Viscosity, Viscous Force, Equation of
		Continuity, Bernoulli's Principle.
		CO4. To understand the Concept of Surface
		Tension.
		CO5. To Learn the Properties of Matter like
		Stress and Strain.
		CO6.Demonstrate quantitative problem
		solving skills in all the topics covered.
Physics	PHY-	CO1.To understand the general structure of
Principles	112	atom.
and		CO2.To understand the atomic excitation and
Application		LASER principles.
S		CO3.To understand the bonding mechanism
		and its different types.
		CO4.To demonstrate an understanding of
		electromagnetic waves and its spectrum.
		CO5.To demonstrate quantitative problem
		solving skills in all the topics covered.
Physics	PHY-	CO1.Acquire technical and manipulative
Practical	113	skills in using laboratory equipment, tools,
1 i uculcui	110	and materials.
		CO2.To understand the Different types of
		Measuring Instruments Like Vernier calliper
		and Micrometer Screwgauge.
		CO3. understanding of Physical Properties of
		Material Like Modulus of Rigidity and



			youngs Modulus.
			CO4.To Understand the Propertise of Laser
			like Divergence.
F.Y.B.Sc	Heat and	PHY	CO1. To understand the Fundamentals of
SEM-II	Thermody	121	thermodynamics.
	namics		CO2. To Learn the Heat transfer Mechanism
			and to understand the different types Heat
			engine.
			CO3.To understand the concept of heat and
			temperature to Study the Principle of
			thermometry.
			CO4Demonstrate quantitative problem
			solving skills in all the topics covered.
	Electricity		CO1.To understand the concept of the electric
	and	PHY	force, electric field and electric potential for
	Magnetism	122	stationary charges.
	Course		CO2. Able to calculate electrostatic field and
	Code -		potential of charge distributions using
			Coulomb's law and Gauss's law.
			CO3.To understand the dielectric
			phenomenon and effect of electric field on
			dielectric.
			CO4.To Study magnetic field for steady
			currents using Biot-Savart and Ampere's
			Circuital laws.
			CO4.To study magnetic materials and its
			properties.
			CO5.Demonstrate quantitative problem
			solving skills in all the topics covered.
			•
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		Physics	PHY-	CO1.Acquire technical and manipulative
		Practical	123	skills in using laboratory equipment, tools,
				and materials.
				CO2. To understand P-V Diagram and
				theorotical Study of Carnots Cycle.
				CO3.To Understand Propertise Like thermal
				Conductivity, Specific Heat.
				CO4.To Study Charging Discharging of
				Capacitor and Kirchhoff's Laws.
				CO5. To Study Different Circuit like LR,
				LCR.
				CO6.to Study Characteristic of Diode.
S.Y	Y.B.Sc	Mathemati	PHY-	CO1.Understand the complex algebra.
.		cal	231	CO2.Understand the concept of partial
SE	EM-I	Methods in		differentiation.
		Physics		CO3.Understand vector algebra useful in
				mathematics and physics
				CO4.Understand the role of partial
				differential equations in physics.
		Electronics	PHY-	CO1.Apply laws of electrical circuits to
			232	different circuits.
				CO2.Understand the relations in electricity
				CO3.Understand the properties and working
				of transistors.
				CO4.Design circuits using transistors and
				operational amplifiers.
		Physics	PHY-	CO1.Design experiments to test a hypothesis
		Practical	233	and/or determine the value of an unknown
				quantity.
				CO2.Investigate the theoretical background of



			an experiment.
			CO3.Setup experimental equipment to
			Implement an experimental approach.
			CO4.Analyze the data, plot appropriate
			graphs and reach conclusions from data
			analysis.
			CO5. Work in a group to plan, implement and
			report on a project/experiment.
			CO6. Keep a well-maintained and instructive
			laboratory logbook.
S.Y.B.Sc	Oscillations	PHY-	CO1.Understand the physics and mathematics
•	, Waves	241	of Oscillations.
SEM-II	and Sound		CO2. Solve the equations of motion for simple
			harmonic, damped, and forced oscillators.
			CO3.Explain oscillation in terms of energy
			exchange, giving various examples.
			CO4.Understand the mathematical
			Description of travelling and standing waves.
	Optics	PHY-	CO1.Acquire the basic concepts of wave
		242	optics
			CO2.Describe how light can constructively
			and destructively interfere
			CO3.Understand optical phenomena such as
			polarization, birefringence, interference and
			diffraction in terms of the wave model.
			CO4. Analyze simple examples of interference
			and diffraction phenomena.
	Physics	PHY-	CO1.Use various instruments and equipment.
	Practical	243	CO2.Design experiments to test a hypothesis
			and/or determine the value of an unknown



			quantity.
			CO3.Set up experimental equipment to
			implement an experimental approach.
			CO4. Analyze data, plot appropriate graphs
			and reach conclusions from your data
			analysis.
T.Y.B.Sc	Mathemati	91213	CO1.The student should be able to solve
	cal		problems within these topics and describe
SEM-I	Methods in		their
	Physics		significance in modern physics
			CO2.Be familiar with the main mathematical
			methods in physics.
	Solid State	91223	CO1.Be familiar with the basic phenomena in
	Physics		solid state physics.
			CO2. Understand the models that describe
			these phenomena.
			CO3.Be able to make quantitative estimates
			for phenomena in solid state physics.
	Classical	91233	CO1.Have a deep understanding of Newton's
	Mechanics		law.
			CO2.Be able to solve the Lagrangian&
			Hamiltonians equation.
	Atomic	91243	CO1.Understanding of the Standard Model.
	And		CO2.Be able to make quantitative estimates
	Molecular		of phenomena in elementary particle.
	Physics.		
	Computati	91253	CO1.Identify modern programming methods.
	onal		CO2.Independently program computers using
	Physics.		leading-edge tools.
		1	



		Renewable	912E3	CO1.Describe the challenges and problems
		Energy		associated with the use of various energy
		Sources		sources.
				CO2.Know the need of renewable energy
				resources, historical and latest developments.
				CO3.Compare Solar, Wind and bioenergy
				systems, Their prospects, Advantages and
				limitations.
r	T.Y.B.Sc	Classical	91214	CO1.Understanding of the theoretical
	.	Electrodyn		foundations of
	SEM-II	amics		electromagnetic phenomena.
				CO2.Be able to solve the Maxwell equations
				for simple configurations.
		Quantum	91224	CO1.Understand the effect of symmetries in
		Mechanics		quantum mechanics.
				CO2.Be able to solve the Schrödinger
				equation
				for simple configuration.
				CO3.Have a deep understanding of the
				mathematical foundations of quantum
				mechanics.
		Thermody	91234	CO1.You can master basic statistical methods
		namics &		and
		Statistical		concepts like probability, expected value
		Physics		variance.
				CO2.Has thorough knowledge on different
				Classical and quantum mechanical
				distribution functions.



Nuclear	91244	CO1.Demonstrate knowledge and
Physics		understanding of Laws definitions concepts
		scientific vocabulary, Scientific quantities and
		their determination.
		CO2. Understand the fundamental principles
		and concepts governing classical nuclear
		physics.
Electronics	91254	CO1.Analyse simple electronics circuits
		based on diodes and transistors with special
		focus on
		designing amplifiers with discrete
		components;
		CO2.Perform Analysis at AC of Amplifiers
		based on BJTs and FETs using weak signal
		models.
Laser	912K4	CO1.Understanding the scientific and clinical
Lasci	/12154	Cor. Onderstanding the scientific and chinear
Lasci)12K4	principles of lasers in dentistry.
Dasci	712114	_
Lasci	712IX 4	principles of lasers in dentistry.
Lasci	712114	principles of lasers in dentistry. CO2.Learn basic concepts of laser physics
Lasci)12N4	principles of lasers in dentistry. CO2.Learn basic concepts of laser physics and segmentation of wavelengths.
Lasci)12N4	principles of lasers in dentistry. CO2.Learn basic concepts of laser physics and segmentation of wavelengths. CO3.Become familiar with different types of
Lasci)12N4	principles of lasers in dentistry. CO2.Learn basic concepts of laser physics and segmentation of wavelengths. CO3.Become familiar with different types of laser used in dentistry.
PRACTIC	921274	principles of lasers in dentistry. CO2.Learn basic concepts of laser physics and segmentation of wavelengths. CO3.Become familiar with different types of laser used in dentistry. CO4.Understand the basic elements of the
		principles of lasers in dentistry. CO2.Learn basic concepts of laser physics and segmentation of wavelengths. CO3.Become familiar with different types of laser used in dentistry. CO4.Understand the basic elements of the laser.
PRACTIC		principles of lasers in dentistry. CO2.Learn basic concepts of laser physics and segmentation of wavelengths. CO3.Become familiar with different types of laser used in dentistry. CO4.Understand the basic elements of the laser. CO1.Work in a group to plan, implement and
PRACTIC AL		principles of lasers in dentistry. CO2.Learn basic concepts of laser physics and segmentation of wavelengths. CO3.Become familiar with different types of laser used in dentistry. CO4.Understand the basic elements of the laser. CO1.Work in a group to plan, implement and report on a experiment.
PRACTIC AL		principles of lasers in dentistry. CO2.Learn basic concepts of laser physics and segmentation of wavelengths. CO3.Become familiar with different types of laser used in dentistry. CO4.Understand the basic elements of the laser. CO1.Work in a group to plan, implement and report on a experiment. CO2.Investigate the theoretical background to
PRACTIC AL		principles of lasers in dentistry. CO2.Learn basic concepts of laser physics and segmentation of wavelengths. CO3.Become familiar with different types of laser used in dentistry. CO4.Understand the basic elements of the laser. CO1.Work in a group to plan, implement and report on a experiment. CO2.Investigate the theoretical background to an experiment.
PRACTIC AL		principles of lasers in dentistry. CO2.Learn basic concepts of laser physics and segmentation of wavelengths. CO3.Become familiar with different types of laser used in dentistry. CO4.Understand the basic elements of the laser. CO1.Work in a group to plan, implement and report on a experiment. CO2.Investigate the theoretical background to an experiment. CO3.Set up experimental equipment to



		abstract concepts and theories gained by
		Experiencing and visualizing them as
		authentic phenomena.
PRACTIC	91284	CO1.Demonstrate a deeper understanding of
AL		abstract concepts and theories gained by
COURSE 2		experiencing and visualizing them as
		authentic phenomena.
		CO2.Acquire the complementary skills of
		collaborative learning and teamwork in
		laboratory settings
		, ,
		CO3.Demonstrate an understanding of
		laboratory procedures including safety, and
		scientific methods.
		CO4. Demonstrate an ability to collect data
		through observation and/or experimentation
		and interpreting data.
PRACTIC	91294	CO1.Work in a group to plan, implement and
AL		report
COURSE 3		on a project/experiment
		CO2.Investigate the theoretical background to
		an project.
		CO3.Acquire the complementary skills of
		collaborative learning and teamwork in
		laboratory settings
		CO4.Acquire technical and manipulative
		skills in using laboratory equipment, tools.



Short Term Course Course outcomes

Name of the	Class	Course Name	Course Outcome
Physics Physics	S.Y.B.Sc. SEM-III and IV	Repairing of Domestic Electrical Home Appliances	CO1. Understand key element of electrical and electronics appliances. CO2. Understand key elements of RAC (AC and Refrigerators). CO3. Understand domestic wiring and layout CO4. Basic safety practices. Repair maintenance of the basic electrical and electronics appliances. CO4. Identification to protective devices CO5. Repair and maintenance of the split AC and Refrigerators. CO6. Able to do domestic wring and
Physics	T.Y.B.Sc SEM-V and VI	CCTV Camera Equipment Installation, & amp; Maintenance	CO1.Recognize & Description of the control of the



using available
resources.
CO5. Understand and apply
basic computer
working, basic
operating system and
uses
CO6. Internet services
to get accustomed & amp;
take benefit of IT
developments

Department of Botany **Program specific outcomes**

Name of the	Program specific outcome					
Department						
Botany	PSO1. Plant diversity such as algae, bryophytes, pteridophytes,					
	gymnosperm and angiosperm which indicates the evolution of plants.					
	PSO2. Environmental problems along with finding solutions.					
	PSO3. Various aspects and disciplines of plant study such as plant					
	anatomy, plant physiology, embryology, etc.					
	PSO4. Different types of nutrition which are applied in growth of plants.					
	PSO5. Characteristics of various plants to study identification					
	classification and nomenclature under taxonomy and to know					
	evolutionary relationship between different plant groups.					

Course outcomes (Semester-wise)

Name of the	Class	Course	Course	Course Outcome
Department		Name	code	
Botany	F.Y.	Botany I-	BO111	CO1 Student becomes aware about the plant
	B.Sc.	Plant life		diversity i.e. various plant groups such as



(SEM	and		Algae, Lichens, Fungi, Bryophytes,
I)	Utilization		Pteridophytes, Gymnosperm and Angiosperms.
	I		CO2 They understand the value of plant
			diversity by knowing the utilization of each
			plant group for human use as well as for
			maintenance of entire ecosystem and
			environment.
	Botany II-	BO112	co1 Student gets the knowledge of different
	Plant		morphological characters of plants such as
	morpholog		inflorescence, flower and its parts, fruits and
	y and		seeds.
	anatomy		co2 They know about how these morphological
			characters are useful in identification,
			nomenclature, classification, phylogeny and
			plant breeding
			co3 Student knows about the anatomical
			structure in plant system by studying different
			tissue systems in plants.
	Practical	BO113	co1 Student gets the Practical knowledge about
	based on		different plant specimen by studying its
	BO111 and		morphological and anatomical characters.
	BO112		
F.Y.	Botany I-	BO121	co1 Students understand the detailed
B.Sc.	Plant life		morphological and anatomical studies with
(SEM	and		reference to pteridophytes, gymnosperms and
II)	Utilization		angiosperms.
	II		co2 They realize the utilization and ecological
			importance of these plant groups.



		Botany II-	BO122	co1 Student understands the concepts Plant
		Principles		physiology such as osmosis, diffusion,
		of plant		plasmolysis etc., plant cell structure and cell
		science		cycles in plants.
				co2 Student get knowledge about the structure
				of DNA and RNA its function and replication.
		Practical	BO123	co1 Student gets the Practical knowledge about
		based on		different plant specimen by studying its
		BO121 and		morphological and anatomical characters.
		BO122		co2 The practicals of physiology make them
				aware about how the plant performs its
				metabolic activities.
				co3 Student realize about how DNA and RNA
				can be isolated and quantified.
Botany	S.Y.	Botany I-	81411	co1 Students understand Plant descriptions,
	B.Sc.	Taxonomy		description of morphological and reproductive
	(SEM	of		characters of plants and also identification and
	I)	Angiosper		classification and nomenclature of plant
		m and		families of Angiosperm.
		plant		co2 A herbarium technique gives knowledge
		community		for identification of plants.
				co3 Students understand environmental basic
				concept of ecology and know about plant
				adaptation according to different ecological
				conditions such as xerophytes, halophytes,
				mesophytes and succulents.
		Botany II-	81421	co1 Students get knowledge of basic concepts
		Plant		in plant physiology such as plant water relation,
		physiology		osmosis, imbibition, water absorption, and



			ascent of sap, seed technology, nitrogen
			metabolism physiology of flowering and plant
			growth regulators and vernalization.
S.Y.	Botany I-	81412	co1 Student realizes the anatomical structure of
B.Sc.	Plant		angiosperm with respect to Epidermal tissue
(SEM	anatomy		system, Mechanical tissue system, Vascular
II)	and		tissue system, Normal secondary growth,
11)			
	embryolog		Anomalous secondary growth.
	y		co2 They understand basic knowledge of
			embryo and embryo development and types of
			embryo.
	Botany II-	81422	co1 Students know about types of enzymes and
	Plant		enzyme immobilization, production of single
	Biotechnol		cell protein and its economic implications.
	ogy		co2 They aware about methods of
			phytoremediations, rhizofilteration,
			phytoextraction, etc.
			co3 Students understand basics of gene transfer
			in plants, its application in crop improvement
			and Nano-biotechnology.
	Botany	81432	co1 Student gets the Practical knowledge about how
	III-		to describe plant families and their economic
	Practical		importance.
			co2 The practicals of physiology make them aware about how the plant performs its metabolic activities. co3 Student understands the mechanical tissue system, normal and anomalous secondary growth, embryonic development in plant system co4 Student get knowledge about how fermentation products are formed and DNA isolation with agarose gel electrophoresis.



Short Term Course Outcomes:

Name of the	Class	Course	Course Outcome
Department		Name	
Botany	F.Y.	Certificate	CO1 Students Understand the basic techniques for
	B.SC. and	course in	standardization of extracts and their screening
	S.Y. B.Sc.	Herbal	methods of herbs.
		cosmetics	CO2 They able to Demonstrate and analyse the
		(Basic)	preparation of herbal soap, hair oil, face pack, hair
			conditioner, moisturiser and herbal hair dye
			CO3 Student aware about different skin types and
			its relation to different face pack.
			CO4 Exhibit and demonstrate the basic
			communication skills for marketing of products



Department of Zoology Program specific outcomes

Name of the	Program specific outcome
Department	
ZOOLOGY	Students leaning Zoology for B.Sc. PSO is,
	PSO1: Students will be able to present scientific hypothesis and data,
	orally and in writing in the formals that are used by practicing
	scientists.
	PSO2: Students will be able to apply the scientific method to question
	in zoology by formulating testable hypothesis.
	PSO3: Students will be able to access the primary literature, identify
	relevant works for a particular topic and evaluate the scientific content
	of this work.
	PSO4: Students should be able to apply fundamental mathematical
	tools (Statistics and Calculus) and physical principles (Physics and
	chemistry) to the analysis of relevant biological situations.
	PSO5: Students should be able to identify, compare and contrast the
	characteristics of animals to differentiate them from other life forms.
	PSO6: Students should be able to use comparative anatomy to study
	evolution
	PSO7: Students should be able to explain gene, genome, cell biology,
	tissue, organs and systems.
	PSO8: Students also able to explain physiological and developmental
	aspects of organism.
	PSO9 : Students are able to explicate the ecological interconnections of
	the life on the earth by tracing energy and nutrient flow through the
	environment.
	PSO10 : Students will be able to demonstrate proficiency in the



experimental techniques and methods of analysis appropriate for their area of specialization within biology.

PSO11: Students will be able to apply Zoology to day to day life and enhance life & business.

Course outcomes (Semester-wise)

Name of the	Class	Course	Course	Course Outcome
Department		Name	code	
Zoology	F.Y. B.Sc.	Animal Diversity I	ZO - 111	CO 1: To remember & understand the basics of animal classification. CO 2: To analyse the characters critically and classify them CO 3: To apply classification of animals in day today life to the invertebrate forms we observe up to phylum & class. CO 4: To examine the characters and verify the additional features related to animal classification. CO5: To create culturing mechanisms and nurture some invertebrates in laboratory conditions and observe their lifestyle.
	Sem I	Animal Ecology	ZO -112	CO 1: To recollect and implement the basics of ecology in each unit. CO 2: To scrutinize concepts in ecology and peruse them with examples. CO 3: To analyse the said laws of nature with a thought about humans CO 4: To explore the joy of learning in environment and apply the logic of class to living systems. CO5: To construct the models of ecosystem and other aspects to apply it to nature. CO 6: To formulate an ecosystem in class room with all possible information.
			ZO-121	CO 1: To remember & understand the
				basics of animal classification.
				CO 2: To analyse the characters critically
	F.Y. B.Sc.	Animal		and classify them.
	Sem II	Diversity		CO 3: To apply classification of animals in



	T	ı	<u>, </u>
	II		day today life to the invertebrate forms we
			observe up to phylum & class.
			CO 4: To examine the characters and
			verify the additional features related to
			animal classification.
			CO5: To create culturing mechanisms and
			nurture some invertebrates in laboratory
			conditions and observe their lifestyle.
			CO1: To recollect and understand the
			basics of cell.
			CO2: To relate the techniques to cell to
			understand the cell better
	C.II	70 100	CO 3: To solve cell biology problems
	Cell	ZO-122	using the formulae and techniques.
	Biology		C0 4: To compare the cellular size shape
			number with its functioning.
			CO5: To appraise the cellular functioning
			to its position and structure CO 6: To
			create a virtual cell model and understand
			its functioning
			CO1: To remember & understand the
			basics of animal classification.
			CO2: To analyse the characters critically
			and classify them
			CO3: To apply classification of animals in
			day today life to the vertebrate forms we
			observe up to phylum & class.
	Animal	ZO -	CO4: To examine the characters and
	Diversity	231	verify the additional features related to
	III		animal classification.
			CO5: To create culturing mechanisms and
			nurture some vertebrates in laboratory
			conditions and observe their lifestyle.
			CO6: To type study an example with
			hands on experience
S. Y. B.Sc.			CO1: Useful and harmful insects and their
Sem I			impact on human life stock.
			CO2: To Apply the knowledge of
			culturing the sericulture worms for a
			profitable use.
	Applied	ZO -	CO 3: To analyse the silk worm varieties
	Zoology	232	and the silk obtained from them.
	Louingy	232	CO 4. To create entrepreneurs who can
			-
			handle agro businesses and successfully
1	1	1	create profitable businesses.



			CO-5. To control unwanted animals by understanding their life cycles, stages and control points for agro based profitability.
			CO -6. Use Of Technology For Business Prospering
	Animal Diversity IV	ZO – 241	CO1: To remember & understand the basics of animal classification. CO2: To analyse the characters critically and classify them CO3: To apply classification of animals in day today life to the vertebrate forms we observe up to phylum & class. CO4: To examine the characters and verify the additional features related to animal classification. CO5: To create culturing mechanisms and nurture some vertebrates in laboratory conditions and observe their lifestyle. CO6: To type study an example with hands on experience
S. Y. B.Sc.			CO-1 honey bees and their impact on
Sem II	Applied Zoology II	ZO - 242	human life stock. CO-2:to Apply the knowledge of culturing the honey bees for a profitable use by knowledge of their biology. CO 3. to create entrepreneurs who can handle agro businesses and successfully create profitable businesses. CO-4. To promote fisheries as an entrepreneurial business. CO-5. Linking various aspects of human life with these businesses for popularizing applied zoology CO -6. Use Of Technology For Business Prospering



Short Term Course Outcomes:

Name of the	Class	Course	Course Outcome
Department		Name	
Zoology	FY BSc	Aquarium maintenance	CO1. To understand the basics of Aquarium maintenance and it's important. CO2. To understand Aquarium management of various fish species. CO3. To understand types of Aquarium and accessories required for it. CO4. To understand food, feeding to aquarium fishes. CO5. To understand the fish diseases and their control. CO6. The students will be able to understand market value of Aquarium practices.

Department of Mathematics Program specific outcomes

Name of the Department	Program specific outcome		
Mathematics (F.Y.B.Sc &S.Y.B.Sc)	PSO1) Think in a critical manner.		
	PSO2) Know when there is a need for information, to		
	be able to identify, locate, evaluate, and effectively use		
	that information for the issue or problem at hand.		
	PSO3) Formulate and develop mathematical		
	arguments in a logical manner.		
	PSO4) Acquire good knowledge and understanding in		
	advanced areas of mathematics and statistics, chosen		
	by the student from the given courses.		
	PSO5) Understand, formulate and use quantitative		
	models arising in social science, business and other		
	contexts.		



Course outcomes (Semester-wise)

Name of the	Class	Course	Course	Course Outcome
Department		Name	code	
Mathematics	F.Y.B.Sc.	Algebra	MT-111	CO1) Student will be able to apply
		(Semester-I)		basic concept of sets, relations,
				functions, type of functions.
				CO2) Student will be able to solve
				various problems on properties of
				integers and use the basic concepts
				of divisibility, congruence and their
				applications in basic algebra.
				CO3) Student will be able to apply
				basic properties of complex
				number, De- Moivre's theorem,
				region in complex plane.
Mathematics	F.Y.B.Sc.	Calculus -I	MT-112	CO1) Gain Knowledge of
		(Semester-I)		fundamental concepts of real
				numbers.
				CO2) Verify the value of the limit
				of a function at a point using the
				definition of the limit
				CO3) Introduction to sequence and
				series.
				CO4) Learn to check function is
				continuous, understand the
				consequences of the intermediate
				value theorem for continuous
				functions.



Mathematics	F.Y.B.Sc.	Practical	MT-113	CO1) Learn Maxima software.
		Course		CO2) Problem solves on algebra
		based on		and calculus by using maxima
		MT-111 and		software.
		MT-112		
		(Semester-I)		CO3) Knowledge of application of
D.M. all and all and	EVDC	A 1 4° 1	MT 101	mathematics
Mathematics	F.Y.B.Sc.	Analytical	MT- 121	CO1) Introduction to analytical
		Geometry		geometry of 2 dimensional.
		(Semester-		CO2) Study of planes and lines in 2
		II)		and 3 dimensions.
				CO3) Student will be to finding
				equation in various form of the
				sphere, equation of plane section of
				a sphere, equation of a circle,
				sphere through given circle and
				equation of tangent plane to sphere.
Mathematics	F.Y.B.Sc.	Calculus- II	MT-122	CO1) Student will be to understand
		(Semester-		differentiation, fundamental
		II)		theorem in differentiation and
				various rules.
				CO2) Student will be to understand
				geometrical representation and
				problem solving on MVT
				CO3) Student will be to identify
				and apply the intermediate value
				theorem, Mean value theorem and
				Hospital's rule.
				CO4) Student will be to identify



				types of differential equations and
				solve differential equations such as
				Exact, homogeneous, non-
				homogeneous, and linear and
				Bernoulli differential equations etc.
Mathematics	F.Y.B.Sc.	Practical	MT-123	CO1) Learn Maxima software.
		Course		CO2) Problem solves on analytic
		based on		geometry and calculus by using
		MT-121 and		maxima software.
		MT-122		CO3) Problem solving on geometry
		(Semester-		and calculus.
		II)		and calculus.
Mathematics	S.Y.B.Sc.	Multivariabl	MT-211	CO1) Students will able to learn
		e		analysis of multivariable functions,
		Calculus I		limit, continuity, partial derivatives
		(Semester-I)		and differentiability.
				CO2) Students will able to learn
				the concepts of multiple integrals
				and their application to area and
				volumes
Mathematics	S.Y.B.Sc.	Laplace	MT-212(B)	CO1) Students will able to learn
		Transform		the methods and properties of
		and Fourier		Laplace transform and Inverse
		Series		Laplace transform; apply them to
		(Semester-I)		solve Linear Differential equations.
				CO2) Students will able to apply the fundamental concepts of Fourier series, Fourier Sine series, Fourier Cosine series to find series representation of irrational numbers.



Mathematics	S.Y.B.Sc.	Mathematic	MT-213	CO1) Problem solving on
		s Practical		multivariable calculus and Laplace
		based on		transform, Fourier series
		MT211 and		CO2) Learn to build logical
		MT212		concept.
		(Semester-I)		
Mathematics	S.Y.B.Sc.	Linear	MT-221	CO1) Students will able to use the
		Algebra		concept of basis and dimension of
		(Semester-		vector spaces linear dependence
		II)		and linear independence, to solve
				problems.
				CO2) Students will able to use the
				concept of inner product spaces to
				find norm of vectors, distance
				between vectors, and check the
				orthogonality of vectors, to find the
				orthogonal and orthonormal basis.
				CO3) Students will able to apply
				the properties of linear
				transformations to linearity of
				transformations, kernel and rank of
				linear transformations, inverse
				transformations to solve the
				problems of matrix transformations,
				change of basis.
Mathematics	S.Y.B.Sc.	Numerical	MT-212(B)	CO1) Students will able to round-
		Analysis		off given number calculate
		(Semester-		absolute, relative and percentage
		II)		error.
				CO2) Students will able to solve



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Department of Statistics Program specific outcomes

Name of the Department	Program specific outcome
Statistics	PSO1.To provide knowledge of
	Statistics, Qualitative and Quantative
	data Analysis, various statistical
	distributions.
	PSO2.To make the students aware of
	applications of different statistical aspects.
	PSO3.To highlights the potential of these
	studies to become an entrepreneur.
	PSO4.To equipped with skills related to
	theorotical as well as practical based studies.
	PSO5.To inform students about how Statistics
	is used in real life.
	PSO6.To create: an interest research field to
	national development
	PSO7.To facilitates students for
	taking up and shaping a successful
	career in Statistics.

Course outcomes

Name of the	Class	Course	Course	Course Outcome
Department		Name	code	
Statistics	F.Y.B.Sc	Descriptive	ST-111	After completing this course student will
	•	Statistics I		be able to
	SEM-I			CO1) Define- Mathematical Averages
				(AM,GM,HM) , Positional Averages (
				Median, Mode Partition values),
				Absolute (Range, Q.D., M.D., S.D. and



		Relative measures of dispersion,
		Moments Skewness and Kurtosis,
		Characteristics of Attributes.
		CO2) Explain- Constructions of
		Diagrams and Graphs , Mathematical
		Averages and Positional Averages,
		Absolute and Relative measures of
		dispersion, Moments Skewness and
		Kurtosis, Characteristics of Attributes.
		CO3) Write- Relation between AM ,GM,
		HM,Derivation of Median and Mode,
		Properties of Measures of central
		tendency and dispersion, First four raw
		and central moments, measures of
		Skewness and Kurtosis, concept of
		consistency in attributes, Yules
		coefficient of association, coefficient of
		colligation and relation between them.
Discrete	ST-112	After completing the course, students will
Probability		able to-
and		CO1) Define- Sample space (Finite and
Probability		countable infinite), Power set, Axiomatic
distributions		definition of probability, Probability
-I		Mass function (pmf), Cumulative
		distribution function (cdf),Mathematical
		expectation,Binomial
		distribution, Hypergeometric distribution.
		CO2) Explain- Random experiment,
		events and types of events, Conditional



			Duch shility and Indones Janes of security
			Probability and Independence of events.
			CO3) Write- Examples on sample space,
			simple examples on probability based on
			permutation and combination, Theorems
			on probability, Properties of cdf.
	Statistics	ST-113	CO1. Diagramatic representation of
	Practical		data, Histogram, Frequency polygon, ogive
			curves.
			CO2. Use of MS-Excel to draw random
			numbers and sampling
			CO3. Data interpretation from various
			graphs and diagrammes.
			CO4. Computation of measures of
			central tendency and dispersion
			CO5. Measures of skewness, kurtosis and
			box plot
			CO6. Computation of summary statistics
			using MS-Excel
F.Y.B.Sc	Descriptive	ST-121	After completing the course, students will
SEM-II	Statistic II		able to-
			CO1) Define- Types of correlation,
			fitting of line of Regression, Coefficient
			of Determination, Residual, and
			Unweighted and Weighted index
			numbers.
			CO2) Explain- Bivariate data,
			Correlation, Regression, Multiple and
			Partial correlation, Multiple Regression,
			Index Number, Types of Index Number.
			maca rumber, Types of maca rumber.



Г	1		CO2) White Int. 111 C. 15 1
			CO3) Write- Interpretation of r if r=1,r= -
			1, r= 0, Properties of correlation
			coefficient, Derivation of the formula for
			Spearman's rank correlation coefficient,
			Fitting of regression plan by method of
			least square, Properties of Multiple and
			Partial correlation coefficient, Price,
			Quantity and Value index number
	Discrete		After completing the course, students will
	Probability	ST-122	able to-
	and		CO1) Define- Random Variable,
	Probability		Expectation of random variable, Mean,
	distributions		Variance, Raw and central moments
	-II		based on expectation of random variable,
			Poisson distribution, Geometric
			Distribution, Bivariate discrete random
			variable.
			CO2) Explain- Results on expectation of
			random variable, Mean and variance by
			using pgf.
			CO3) Write- Properties of pgf,
			Probability mass function-Mean-
			Variance-moments- cdf for standard
			discrete probability distribution,
			Recurrence relation, concept of marginal
			and conditional probability, Theorems on
			expectation, conditional mean and
			conditional variance.
	Statistics	ST-123	CO1. Scatter Diagram, Correlation
	Practical		coefficient, Fitting of line of regression.
	1 i acticai		coefficient, itting of fine of regression.



			CO2. Fitting of second degree
			curve,exponential curve.
			CO3. Fitting of Binomial distribution.
			CO4. Fitting of Poisson distribution
			CO5. Applications of Binomial, Poisson,
			geometric distributions
			CO6. Index numbers
			CO7. Scatter Diagram, Correlation
			coefficient, Fitting of line of regression,
			Fitting of second degree curve,
			exponential curve using MS-Excel
S.Y.B.Sc	Discrete	ST-231	After completing the course, students will
	Probability		able to-
SEM-I	Distribution		CO1. Learn Negative Binomial
	and Time		Distribution, Multinomial Distribution,
	Series		Truncated Distribution, with their Mean,
			Variance .moments and other properties.
			CO2. Learn the Meaning and need of
			time series analysis. Do Measurement of
			trend
	Continuous	ST-232	After completing the course, students will
	Probability		able to-
	Distribution		CO1. Understand concept of continuous
			distributions with real life situations
			CO2. Learn Uniform, Exponential,
			NormaL distribution.
			CO3. Compute mean, mode, variance,
			moments, cumulants for all Distributions
			CO4. Learn properties of each specified



			distribution
	Statistics	ST-233	CO1. Fitting of Negative Binomial
	Practical		distribution.
			CO2. Fitting of Normal distribution.
			CO3. Model sampling from exponential
			distribution
			Implement an experimental approach.
			CO4. Time series-Estimation and
			forecasting of trend by exponential
			smoothing, moving averages, plotting of
			residuals, Fitting of AR model
			CO5. Estimation of trend, seasonality
			CO6. Fitting of Negative Binomial
			distribution, Fitting of Normal
			distribution using MS-Excel
S.Y.B.Sc	Statistical	ST-241	After completing this course student will
•	Methods and		be able to
SEM-II	use of R-		CO1 Learn basic concepts of multiple
	Software		linear Regression Model
			CO2 Learn Testing of Hypothesis
			CO3 Understand Large Sample Tests
			CO4Understand the need of vital
			statistics and concept of mortality and
			fertility
			CO5 Solve examples on Demography
			CO6 Understand Queueing Models and
			Solve examples.
	Sampling	ST-242	After completing this course student will
	distribution		be able to



And		CO1 Learn Exact Sampling Distributions
inference		CO2 Understand Chi-Square distribution,
		Student's t- distribution, Snedecores F
		distribution
		CO3 Know the relations among the
		different distributions
		CO4 Learn Testing of Hypothesis
		CO5 Understand Large Sample Tests
		CO6 Learn Testing of Hypothesis
		CO7 Understand Small Sample (Exact)
		Tests
Statistics	ST-243	CO1 Test for means & construction of
Practical		confidence interval
		CO2 Test for proportions & construction
		of confidence interval
		CO3 Test based on chi square
		distribution
		i) Goodness of fit
		ii) Independence of
		attributes
		iii) Mc Neamar's test
		CO4 Test for means & construction of
		confidence interval using MS-Excel
		CO5 Tests using R-software



DEPARTMENT OF CHEMISTRY

Program Outcome

Name of the Program	Program outcome
B.Sc.	PO1 . At the Completion of B. Sc. in Chemistry the Students:
	PO2 . Provide a broad foundation in chemistry that stresses scientific reasoning and Analytical problem solving with a molecular perspective.
	PO3 . Achieve the skills required to succeed in graduate school, the chemical industry and professional school.
	PO4 . Get exposures of a breadth of experimental techniques using modern instrumentation
	PO5. Understand the importance of the Periodic Table of the Elements, how it came to be, and its role in organizing chemical information.
	PO6 . Understand the interdisciplinary nature of chemistry and to integrate knowledge of mathematics, physics and other disciplines to a wide variety of chemical problems.
	PO7 .Learn the laboratory skills needed to design, safely and interpret chemical research.
	PO8. Acquire a foundation of chemistry of sufficient breadth and the depth to enable them to understand and critically interpret the primary chemical literature.
	PO9 . Develop the ability to communicate scientific information and research results in written and oral formats.
	PO10. Learn professionalism, including the ability to work in teams and apply basic
M.Sc.	This two year programme offers the opportunity to study chemistry at an advanced level, covering both the traditional core areas of chemistry as well as more specialist courses aligned to the research groupings of the department. The course provides opportunity for students to develop and demonstrate advanced knowledge understanding and practical / research skill.



Program Specific Outcomes:

Name of the	Program Specific Outcomes		
Department			
Department of Chemistry	B.Sc. Course :		
	On the completion of B.Sc. Chemistry the students:		
	PSO 1 :- Understand the scope, methodology and application of modem chemistry		
	P SO 2 :- Study theoretical and practical concepts of instruments that are commonly used in most chemistry field.		
	PSO 3:- Plan and conduct scientific experiments and record the results of such experiments.		
	PSO 4:- Get acquaint with safety of chemicals, transfer, and		
	measurement of chemicals, preparation of solutions, and using		
	physical properties to identity compounds and chemical reactions.		
	PSO 5:- Describe how chemistry is useful to solve social, economic		
	and environmental problem and issues facing our society in energy,		
	medicine and health		
	M.Sc. Course		
	Programme specific outcomes:- A Student		
	PO1: Gains complete knowledge about all fundamental aspects of all		
	the elements of chemistry		
	PO2: understands the background of organic reaction mechanisms,		
	complex chemical structures, Instrumental method of chemical		
	analysis, molecular rearrangements and separationtechniques.		
	PO3: Appreciates the importance of various elements present in the		
	periodic table, coordination chemistry and structure of molecules,		
	properties of compounds, structural determination of complexes		



using theories and instruments.

PO4: Gathers attention about the physical aspects of atomic structure, dual behaviour, reaction pathways with respect to time, various energy transformations, molecular assembly in nanolevel, significance of electrochemistry, molecular segregation using their symmetry.

PO5: Learns about the potential uses of analytical industrial chemistry, medicinal chemistry and green chemistry.

PO6: Carry out experiments in the area of organic analysis, estimation, separation, derivative process, inorganic semi micro analysis, preparation, conductometric and potentiometer

Course outcome: (Semester-wise):

Name of the department	Class	Course name	Course code	Course outcome
Department	F.Y.B.Sc.	Physical	<u>CH 101</u>	Course Outcomes
of		Chemistry		CO1. The students are expected to
Chemistry				understand the fundamentals,
				principles, and recent developments
				in the subject area.
				CO2. It is expected to inspire and
				boost interest of the students towards
				chemistry as the main subject.
				CO3. To familiarize with current and
				recent developments in Chemistry.
				CO4. To create foundation for
				research and development in
				Chemistry
				CO5 .Importance of chemical safety



F.Y.B.Sc Inorganic Chemistry	and Lab safety while performing experiments in laboratory CO6 .Determination of thermochemical parameters and related concepts CO7. Techniques of pH measurements CO 8. Preparation of buffer solution CO9. Elemental analysis of organic compounds (non instrumental) CO10. Chromatographic Techniques for separation of constituents of mixtures CH 201 Course Outcome CO1. Inorganic Estimations using volumetric analysis CO2. Synthesis of Inorganic compounds CO3. Analysis of commercial products CO4. Purification of organic compounds CO5. Preparations and mechanism or reactions involved
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	Physical	CH- 101:	Course Outcomes Practicals
	Chemistry		CO1 After completing the course
			work learner will be acquired with
			knowledge of chemical
			energetics,Chemical equilibrium and
	Organic	CH- 102:	ionic equilibria.
	Chemistry		CO2 Will learn Fundamentals of
			organic chemistry, stereochemistry
			(Conformations, configurations
	Organic	Theory:	and nomenclatures) and functional
	Chemistry	CH 201:	group approach for aliphatic
			hydrocarbons
			CO3 Will learn Fundamentals of
			organic chemistry, stereochemistry
			(Conformations, configurations
			and nomenclatures) and functional
			group approach for aliphatic
		CH- 201:	hydrocarbons
			CO4Students will learn quantum
			mechanical approach to atomic
			structure, Periodicity of elements,
		CH-202:	various theories for chemical
		C11-202.	
			bonding and calculations used in
			analytical chemistry
	Inorganic	Lab	CO1 Students will learn Functional
		Course	group approach for the various
	Chemistry	CH 103	reactions (preparations & reactions)
		and CH-	incontext to their structure
		allu CH-	



		203	
			CO2 . The practical course is in
			relevance to the theory courses to
	Organic		improve the Understanding of the
	Chemistry		concepts.
	·		CO3 . It would help in development
			of practical skills of the students.
			CO4 . Use of microscale techniques
			wherever required
S.Y.B.Sc.	Physical	CH-301	CO1 Concept of kinetics, terms used
	Chemistry	C11-301	, rate laws , types of order.
			CO2 Factors affecting on rate of
			reaction. photochemistry
			CO3 Understand difference between
			thermal and photochemical reactions
			CO4 Understand laws of
			photochemistry.
			CO5 Learn what is quantum yield
			and it's measurement
			CO6 Concept of distribution of solute
			amongst pair of immiscible solvents
			ii. Distribution law and it's
			thermodynamic proof.
	Inorganic and	<u>CH-302</u>	CO1 Identify chiral center in the
	Organic		given organic compounds.
	Chemistry		CO2 Define Erythro, threo, meso,
			diasteroisomers with suitable
			examples.
			CO3 Able to find R/S configuration



in compounds containing two chiral
centers.
CO4 Explain Bayer's strain theory,
Heat of combustion and relates
stability of cycloalkanes.
C05 Explain the stability of
cyclohexanes.
CO6 Draw the structure of boat and
chair configuration of cyclohexane.
CO7 Draw axial and equatorial bonds
in cyclohexane.
CO8 Explain the stability of axial and
equatorial conformation of
monosubstituted
CO1 A student should be able –
CO2 To differentiate between ore and
minerals.
CO3 To differentiate between
calcination and roasting and smelting.
CO4 To know physico-chemical
principles involved in
electrometallurgy.
CO5 To understand electrolysis of
alumina and its refining.
CO6 To explain the uses of
Aluminum and its alloys.
CO7 To know different reactions in
the blast furnace.



P	Physical and	<u>CH-401</u>	CO1 Meaning of equivalent weight,
A	Analytical		molecular weight, normality,
	Chemistry		molality, primary and
			CO2 secondary standards.
			CO3 Different way to express
			concentrations of the solution.
			CO5 Preparation of standard
			solution.
			CO6 To solve numerical problems.
			CO7 Calibrate various apparatus such
			as burette, pipette, volumetric flask,
			barrel pipette etc.
			CO8 Types instrumental and non
			instrumental analysisi. Explain role of
			indicators.
			CO9 Know mixed and universal
			indicators.
			CO10 Know neutralization curves for
			various acid base titration
			CO11 Know principle of
			complexometric precipitation and
			redox titrations.
			CO12 Know the definitions and
			difference between iodometry and
			iodimetry.
			CO13 To know standardization of
			sodium thiosulphate and EDTA.
			CO14 Reactions between CuSO ₄ and
			Iodine and liberated I ₂ and Na ₂ S ₂ O _{3.}



T.Y.B.Sc.	Physical	CH-501	After studying this topic students are
	Chemistry	Sem I	expected to known.
			CO1. Understand and explain the
			differences between classical and
			quantum mechanics.
			CO2. Understand the idea of wave
			function
			CO3. Understanding of De Broglie
			hypothesis and the uncertainty
			principle
			CO4. Understand the term additive
			and constitutive properties.
		CH-601 Sem II	CO5. Understand the term specific
			volume, molar volume and molar
			refraction.
			CO1. Understand the meaning of
			electrical polarization of molecule,
			induced and orientation polarization.
			CO2.Electrochemical cells: Explanation
			of Daniell cell, Conventions to represent
			electrochemical cells
			CO3. Thermodynamic conditions of
			reversible cell, Explanations of reversible
			and irreversible electrochemical cell with
			suitable example,
			CO4. EMF of electrochemical cell and its
			measurement.
	Inorganic	CH-504	CO1 . To know position of d-block
	Chemistry	Sem I	elements in periodic table.
			CO2. The meaning of term f-block



		CO3. Meaning of active methylene group . 4. Reactivity of methylene
		aromatic hydrocarbons.
		polynuclear and hetreonuclear
		CO2. Write the structure, synthesis of
		hydrocarbons.
Chemistry	Sem I	and hetreonuclear aromatic
Organic	CH-507	CO1. Define and classify polynuclear
		catalysis.
		homogeneous and heterogeneous
		CO11. Define and differentiate
		terminologies.
		catalysis, its basic principles and
		CO10 . Understand the phenomenon of
		due to CO ligand.
		ii 9. To understand the multiple bonding
		CO8. To define organometallic chemistry
		define organometallic compounds.
	Sem II	CO7. To understand M-C bond and to
		valence electrons.
	CH-604	conductivity of metals with respect to
		CO6. Explain the electrical
		band theory.
		CO5. Metallic bond on the basis of
		semiconductor and insulator.
		CO4. The difference between metal,
		semiconductor.
		CO3. The meaning of metal &
		lanthanides, actinides.
		elements, Inner transition elements,



Г		
		group,
		CO5. What is rearrangement reaction.
		CO6. Different types of intermediate
		in rearrangement reactions.
		CO7. Students will learn the principle
		of mass spectroscopy, its
		instrumentation and nature of mass
		spectrum.
		CO 8. Students will understand the
	CH-607	principle of UV spectroscopy and the
	Sem II	nature of UV spectrum. They will
		learn types of electronic excitations.
		CO9. Students will understand the
		principle of IR spectroscopy, types of
		vibrations and the nature of IR
		spectrum.
Analytica	al CH-502	CO1. Define basic terms in
Chemisti	rv	gravimetry, spectrophotometry,
		qualitative analysis and parameters in
		instrumental analysis.
		CO2. Explain different principles
		involved in the gravimetry,
		spectrophotometry, parameters in
		instrumental analysis, qualitative
		analysis.
		CO3. Design analytical procedure for
		given sample.
		CO4. Perform quantitative
		calculations depending upon
		equations student has studied in the



		theory. Furthermore, student should
		able to solve problems on the basis of
		theory.
		CO5. Define basic terms in solvent
		extraction, basics of chromatography,
		HPLC, GC, and AAS and AES
		CO6. Explain different principles
		involved in the analyses using solvent
		extraction,
Industrial	CH-505	CO1. Importance of chemical
Chemistry		industry,
		CO2. Knowledge of various
		industrial aspects.
		CO3. Concept of basic chemicals,
		CO4. Their uses and manufacturing
		process.
		CO5. Importance of sugar industry.
		CO6. Fermentation Industry
		i. Basic requirement of fermentation
		process,
		ii. Manufacturing of ethyl alcohol by
		using molasses and fruit juice.
		Different types of soap products,
		iii. Chemistry of soap.
		iv. Raw materials required for soap
		manufacture
		v. Meaning of the term's Surfactants,
		vi. Types of surfactants



			CO1. The basics of medicinal chemistry, biophysical properties,
			overview of basic concepts of
			traditional systems of medicine.
			CO2. Over view of the overall
		CH-509	process of drug discovery, and the
		CH-609	role played by medicinal
			chemistry in this process.
			CO3. Biological activity parameters
	T4 J4*-		and importance of stereochemistry of
	Introductio		drugs and receptors.
	n to		CO4. Knowledge of mechanism of
	Medicinal		action of drugs belonging to the
	Chemistry		classes of infectious and
			non-infectious diseases.
			CO5. Enhancement of practical skills
			in synthesis, purification and analysis
			The students are expected to learn the
			following aspects of Chemistry.
			i. Importance and
			conservation of
			environment.
		<u>CH -511A</u>	ii. Importance of
			biogeochemical cycles
			ii Water resources
	Environme		Hydrological Cycle
			iii. Organic and inorganic
			pollutants.



	ntal		iv. Water quality parameters
	Chemistry		Course Outcomes
			Practical
			CSO-1 Learns the fundamentals of
			reaction mechanisms
			CSO-2 Understands the mechanism
	Organic		of nucleophilic substitution and
	Chemistry-I		elimination reactions
			CSO-3 Appreciates the fundamentals
			of aromaticity in organic chemistry
			CSO-4 Acquires the 3-D aspects of
		<u>CH-509</u>	organic molecules.
		<u>CH-609</u>	CSO-5 Gains the potential about
			complex vitamin and nucleic acid
			structure
			CSO-1 Understands the background
			of bonding forces
			CSO-2 Appreciates the importance of
			various theories in bonding
			CSO-3 Learns the chemistry basis of
			solid state
		<u>CH-506</u>	CSO-4 Gains the imagination of 3D
		<u>CH-606</u>	structures of silicates and caged
	Inorganic Chemistry-I		compounds
			CSO-5 Estimates the importance of
			extractive metallurgy
			CSO-1 Understands the various
			theories of electrolytic conductance
			CSO-2 Recognizes the dynamics of
			CSO-2 Recognizes the dynamics of



PIPOTONE TEXASTON	
electrode reaction CSO-3 Learns the classical status of	
Physical thermodynamics	
Chemistry - CSO-4 Appreciates the fundamental	S
I of molecular thermodynamics	
CH-503 CSO-5 Estimates the basis of	
<u>CH-603</u> chemical surfaces	
Instrumental method of analysis	
M.Sc.: Organic • Course Outcomes	
Chemistry COs):	
CO1. Student should visualize/	
imagine molecules in 3 dimensions.	
CO2. To understand the concept of	
symmetry and able to pass various	
symmetry elements	
through the molecule.	
CO3. Understand the concept and	
point group and apply it to molecule	s.
CO4. To understand product of	
symmetry operations.	
CO5. To apply the concept of point	
group for determining optical activity	Į
and dipole moment.	
CO6. Student should understand the	;
importance of Orthogonality	
Theorem.	
CO7. They should able to learn the	
rules for constructing character table	٤.
CO8. Using reduction formulae should	d



be able to find out the possible type of hybridization. CO9. Student should know the concept of SALC. CO10.Student able to find out character for reducible representation. CO11. To know about projection operator. CO12. Apply projection operator to find out the normalized wave function for atomic orbital. CO13. Student should correlate the application of symmetry to spectroscopy. CO14. Students able to find out the possible modes of vibration. CO15. From the previous knowledge of symmetry student must able to find out which mode are IR active. **Learning outcomes:** 1. Student should understand the detail chemistry of S and P block elements w.r.t. their compounds, their reactions and applications. 2. To learn the advance chemistry of boranes, fullerene, zeolites, polymers etc.



3. Organometallic chemistry of some
important elements from the main
groups and their
Applications
Learning outcomes:
1. Student should able to find out the
no of microstates and meaningful
term symbols,
construction of microstate table for
various configuration
2. Hund's rules for arranging the
terms according to energy.
3. Student should understand
interelectronic repulsion.
4. Student should know the concept
of weak and strong ligand field.
5. Student able to find out splitting of
the free ion terms in weak ligand field
and
strong ligand field.
6. To draw correlations diagram for
various configurations in Td an Oh
ligand field.
7. Student should know basic
instrumentation and selection rules
and relaxation in
rules.
8. Student should know basic d-d
transition, d-p mixing, charge transfer
spectra.



9. Interpretation of electronic spectra for spin allowed oh and td complexes using Orgel diagram. 10. Understand the concept of spectrochemical series and Nephelauxetic series. 11. Should able to solve numerical based on crystal field parameters. 12. Understand the various terms involved in magnetochemistry. 13. Various phenomenons of magnetism and their temperature dependence. 14. Various experimental methods to find out magnetic moment. 15. Understand the various Quenching of orbital angular momentum. **Learning outcomes:** 1) Importance of bioinorganic chemistry. 2) Role of metals in Metalloprotein and metalloenzymes. 3) Similarities in coordination theory for metal complexes and metal ions complexed with biological ligands. 4) Importance and transport of metal



ions. 5) Passive transport metal ions by ionophores and gramicidin. 6) Mechanism for active transport of Na+and K+ 7) Nerve impulse generation in rod cell of retina. 8) Importance and function of Ca, Fe and Mg in metalloprotein 9) Catalytic role of Mn in photosynthesis. **Learning outcomes:** 1. To understand some fundamental aspects of organic chemistry, to learn the conceptaromaticity, to understand the various types of aromaticity 2. To study heterocyclic compound containing one and two hetero atoms with their structure, synthesis and reactions. 3. To know stereochemistry of organic compounds; able to do interconversion of Fischer toNewmann, Newmann to Sawhorse and vice versa, Able to assign R and S to given molecules; Understand stereoselective and stereospecific reactions; acquire knowledge ontopicity.



4. To study structure, formation,

stability and related name reaction of intermediates like Carbocation, Carbanion, Free Radical, Carbenes and nitrenes; Recognize neighboring group participation 5. To study rearrangement reaction with specific mechanism and migratory aptitude of different groups. 6. To study Ylides and their reaction. 7. To understands the basis of redox reaction; acquire knowledge about the reagents which causes selective oxidation / reduction in various compounds; learn the basic mechanism of oxidation / reduction in organic compounds. Students will be able to understand 1. MOT and will be able to extend this in predicting reaction mechanism andstereochemistry of electrocyclic reactions 2. The concepts in free radical reactions, mechanism and the stereochemical outcomes. 3. The basic principle of spectroscopic methods and their



applications in structure elucidation of organic compounds using given spectroscopic data or spectra. **Course Outcomes:** The goal of this course is to introduce students to fundamental concepts in Chemical Biology and methods of chemistry used to solve problems in molecular and cell biology. After completion of this course, successful students will: CO1) Students will be able to explore new areas of research in both chemistry and allied fields of science and technology. CO2) Students will be able to function as a member of an interdisciplinary problem solving team. CO3) To impart the students thorough idea in the chemistry of carbohydrates, amino acids, proteins and nucleic acids etc. CO4) Be able to describe the chemical basis for replication, transcription, translation and how each of these central processes can be expanded to include new chemical



matter. CO5) Develop skills to critically read the literature and effectively communicate research in a peer setting. At the end of course student will understand / able to explain CO1. Different characterization technique of solids. CO2. Principle of XRD, instrumentation of powder XRD, Brags law, applications of XRDfor crystal structure determination, numerical problems. CO3. Principle of SEM, instrumentation of SEM and interpretation of surface morphology of solid from SEM. CO 4. Principle of TEM, instrumentation of TEM and interpretation of TEM images. CO5. Basics of X-rays, Principle of XRF, types of XRF, instrumentation, qualitative and quantitative analysis, numerical. At the end of course students will able to explain 1. Valence electron count, back bonding in organometallics, spectral characterization of



organometallic compounds. 2. Catalytic reaction involving organometallic compounds and mechanism of these reactions 3. Types of reaction involving organometallic compounds 4. Types of reactions in coordination compounds, inert and labile complexes, substitution reactions in coordination complexes and their mechanism, stereochemistry of reaction. kinetics of reactions. 5. The goal of this course is to introduce students to fundamental concepts in Chemical Biology and methods of chemistry used to solve problems in molecular and cell biology. After completion of this course, successful students will: 6. Students will be able to explore new areas of research in both chemistry and allied fields of science and technology. 7. Students will be able to function as a member of an interdisciplinary problem solving team. 8.To impart the students thorough



idea in the chemistry of carbohydrates, amino acids, proteins and nucleic acids etc. 9.Be able to describe the chemical basis for replication, transcription, translation and how each of these central processes can be expanded to include new chemical matter. 10.Develop skills to critically read the literature and effectively communicate research in a peer setting. 11.Describe the importance of chemical biology research and interdisciplinary work 12.. This course is designed to make students aware of how to perform organic compounds in laboratory. 13. The course includes synthesis of some derivatives and organic compounds, which will help them while working in research laboratory in future. 14. Making derivatives of organic compounds will help them in industry or while doing research in medicinal chemistry for Drug development. 15. This practical course is also



		designed to make student aware of
		green chemistry and
		role of green chemistry in pollution
		reduction.
		16. The students learn how to avoid
		solvents and do solvent free reaction.
		17. Also the work-up procedure in
		many experiments is made more eco-
		friendly to
		environment.
		Course Outcomes:
		CO1. Students are trained to different
		purification techniques in organic
		chemistry like
		recrystallization, distillation, steam
		distillation and extraction.
		CO2. Students are made aware of
		safety techniques and handling of
		chemicals.
		CO3. Students are made aware of
		carrying out different types of
		reactions and their
		workup methods.
		CO4. This practical course is
		designed to make student aware of
		green chemistry and role
		of green chemistry in pollution
		reduction.
		TCGGCHOIL.



Short Term Course (U.G & P.G)

Name of the Department	Class	Course Name	Course Outcome
Chemistry	F.Y B.Sc.	A Certificate	C.O 1. To acquire excellent knowledge of
		Course in	analytical chemistry.
		Instrumental	C.O 2. To determine pH
		Methods of	C.O 3. To determine Conductance, Potential of
		Chemical	water.
		Analysis	C.O 4. To Acquire analytical technique
Chemistry	S.Y B.Sc.	A Diploma Course in Instrumental Methods of Chemical Analysis	C.O 1. To acquire excellent knowledge of analytical chemistry. C.O 2. Quantitative analysis technique and includes discussion of how to design an analytical method which depends on what information is needed.
Chemistry	T.Y B.Sc.	An Advance Diploma Course in Instrumental Methods of Chemical Analysis	C.O 1. How to obtain the laboratory sample that is representative of the whole, how to prepare it for analysis.C.O 2. Measurement tool are available automated analysis and the statistical significance of the analysis.
Chemistry	M.Sc. I	I.P.R INTELLECTUAL PROPERTY RIGHTS.	CO 1: Distinguish and Explain various forms of IPRs. CO 2: Identify criteria's to fit one's own intellectual work in particular form of IPRs. CO 3: Apply statutory provisions to protect particular form of IPRs. C O 4. Analyze rights and responsibilities of holder of patent, copyright, trademark, Industrial Designate.
Chemistry	M.Sc. II	Medicinal Chemistry	CO1: Definition, Classification of the drugs with examples and structures. CO2: Explain the Drugs used for various infectious diseases caused by pathogens. CO3: Describe the structure activity relation of some important class of drugs.



Department of BBA (CA)

Program outcome

Name of the	Program	Program outcome
Program	code	
BBA(CA)		 POs 1: Ability to understand the concepts of key areas in computer science. POs 2: Learn and apply computing and managerial principles to excel in professional career in the field of Computer Applications as an individual, as part of a team, and to deliver within constraint limits as a professional. POs 3: Exhibit professional ethics, cyber regulations and communication skills, engage in lifelong learning and to adapt emerging technologies and tools for developing innovative software solutions. POs 4: Ability to design and develop system, component or process as well as test and maintain it so as to provide promising
		solutions to industry and society.

Program specific outcomes

Name of the	Program specific outcome
Department	
BBA(CA)	 PSOs 1: Students should be able to apply modern practices and strategies in software project development using open-ended programming environments to deliver quality product for business success in context with societal needs. PSOs 2: An ability to gain knowledge on design and control strategy; techniques to secure information and adapt to the fast changing world of information technology needs. PSOs 3: Design and develop Web and Mobile based computer applications PSOs 4: An ability to use and develop cloud software, administrative features. Infrastructure services and architectural patterns; ethical hacking and forensic security technologies.



Course outcomes (Semester-wise)

Name of the	Class	Course	Course	Course Outcome
Department		code	Name	
		CA-	Business	CO1 Become adept to communicate and write
		101	Communi	effectively.
			cation	CO2 Developing and delivering effective
				presentations.
				CO3 Create awareness among students about
				Methods and Media of communication.
				CO4 Make students familiar with information
				technology and improve job seeking skills.
BBA(CA)	FYBBA	CA-	Principles	CO1 Practice the process of management's four
	(CA)	102	of	functions: planning, organizing, leading, and
	Sem-I		Managem	controlling
			ent	CO2 Evaluate leadership styles to anticipate the
				consequences of each leadership style.
				CO3 Understand the working of business
				organization
				CO4 Inculcate Entrepreneurial skills
		CA-	С	CO1 To Understand how to use programming in
		103	Language	day-to-day Applications
				CO2 Improve the problem-solving ability
				CO3 Understand and develop well-structured
				programs using C language
		CA-	Database	CO1 To understand the file structure and its
		104	Managem	organization.
			ent	CO2 An introduction about Database management
			System	system



			CO3 Helps student to learn different types of data
			models
			CO4 Student gets knowledge about designing
			relational database
		C4 - 4 - 4	
	CA-	Statistics	CO1 To understand the power of excel
	105		spreadsheet in computing summary statistics.
			CO2 To understand the concept of various
			measures of central tendency and variation and their
			importance in business.
			CO3 To understand the concept and applications
			of probability, probability distributions in real life
			situations.
			CO4 To understand simulations in business world
			and decision making.
	CA-	Organiz	CO1 Helps the students to understand the impact
	201	ation	that individual, group & structures have on their
		Behavior	behaviour within the organizations.
		&	CO2 Enhance and apply the knowledge they have
		Human	received for the betterment of the organization.
		Resource	CO3 Helps in understanding the basics related to
		Managem	individual behaviour and its impact on their
		ent	performance
	CA-	Financial	CO1 Helps students to acquire sound knowledge of
FY	BBA 202	Accountin	basic concepts of accounting
	CA)	g	CO2 Gains basic accounting knowledge
Se	em-II		CO3 Impart the knowledge about recording of
			transactions and preparation of final accounts 4)
			Acquaint the students about accounting software
			packages (Tally)
	CA-	Business	CO1 Students learned basics of fundamental maths
			or and the state of the state o



	203	Mathema	CO2 Studied business problems and conversion into
	203	tics	business maths
		ucs	
			CO3 Learned the concept of LPP and transportation
			problem
			CO4 Studied matrices and determinants
	CA-	Relational	CO1 Students get the knowledge of Relational
	204	database	Database concepts which is the basic requirements
			of every organization.
			CO2 Students get job as a DBA in good
			organizations.
			CO3 Students can go for certification too which
			helps to get good opportunities in their carrier.
	CA-	Web	CO1Give students the basic understanding of how
	205	Technolog	things work in the Web world from the technology
		y HTML-	point of view as well as to give the basic overview
		JS-CSS	of the different technologies.
SYBBA	CA-	Digital	CO2 Students are able to implement best practices
(CA)	301	Marketin	for creating, measuring, and optimizing display ad
Sem-III		g	campaigns.
			CO3 Students are able to effectively build users
			lists, deliver e-mails & generate relevant clicks.
			CO4 Understand mobile marketing measurement
			and analytics.
			CO5 Make business decisions from the metrics
			available in Digital Media.
	CA-	Data	CO1 Students get the knowledge of Programming.
	302	Structure	CO2 Students get job as a Programmer in
			organizations.
			CO3 Data Structures using C subject is the basic
			requirements of every organization
			127



CA-	Software	CO1 Graduates are knowledgeable of the ethics,
303	Engineeri	professionalism, and cultural diversity in the work
	ng	environment.
		CO2 Graduates can prepare and publish the
		necessary documents required throughout the
		project lifecycle.
		CO3 Graduates can effectively contribute to project
		discussions, presentations, and reviews.
		CO4 Develops Problem solving Skills
		CO5 Develops Team work ability
CA-	Angular	CO1 Give students the basic understanding of how
304	JS /PHP	things work in the Web world from the technology
		point of view as well as to give the basic overview
		of the different technologies.
		CO2 Understand how to develop web-based
		applications.
		CO3 Students are able to develop a dynamic
		webpage.
CA-	Big data	CO1 Understand the key issues in big data
305		management and its associated applications in
		intelligent business and scientific computing.
		CO2 Acquire fundamental enabling techniques and
		scalable algorithms like Hadoop, Map Reduce and
		NO SQL in big data analytics.
		CO3 Interpret business models and scientific
		computing paradigms, and apply software tools for
		big data analytics.
CA-	Block	CO1 Blockchain technology landscape
305	chain	CO2 Applications and implementation strategies
		CO3 State-of-the-art, open research challenges, and



			future directions
SYBBA	CA-	Networki	CO1 Students can get job as a Network
(CA)	401	ng	Administrator in any organization.
Sem-IV			CO2 This subject has wide scope in every MNC's
			as Networking is required everywhere.
			CO3 Students can go for Certifications like CCNA
			which helps to get better opportunities in M.N. C's.
	CA-	Object	CO1 To learn basic object-oriented concept
	402	Oriented	CO2 To write C++ programs that use object-
		Concepts	oriented concept such information hiding,
		Through	constructors, destructors
		CPP	CO3 To know Inheritance, Polymorphism and its
			implementation in programming
			CO4 Basic understanding of Template and
			Exception handling
	CA-	Operating	CO1 To know system programming
	403	System	CO2 Helps to understand services provided by
			operating system
			CO3 To know Scheduling concept and scheduling
			algorithm
			CO4 Helps to understand deadlock detection,
			prevention, avoidance
			CO5 To know memory management in operating
			systems
	CA-	NODE JS	CO1 Understand how to develop web-based
	404	/Advance	applications.
		d PHP	CO 2 Students are able to develop a dynamic
			webpage.
TYBB	CA-	Java	CO1 Student studied basic knowledge of java



A(CA)	501	Program	programming
Sem-V		ming	CO2 Learned the concept of class and objects, and
			basic concept of abstraction, encapsulation,
			inheritance and polymorphism
			CO3 Studied how to deal with the files
			CO4 Learned the concept of Frame and related
			functions
	CA-	Web	CO1 Give students the basic understanding of how
	502	Technolo	things work in the Web world from the technology
		gies	point of view as well as to give the basic overview
			of the different technologies.
			CO2 Understand how to develop web-based
			applications.
			CO3 Students are able to develop a dynamic
			webpage.
	CA-	Dot Net	CO1 It introduces visual programming and event
	503	Program	driven programming practically
		ming	CO2 To know Architecture of ADO.Net
			CO3 Helps student to understand object-oriented
			programming in VB.NET
			CO4 To enhance applications development skills of
			the students
	CA-	Object	CO1 This subject helps students to get job as a
	504	Oriented	Developer or Tester in software company. Students
		Software	will learn the concept of software engineering in
		Engineeri	object-oriented approach.
		ng	CO2 This subject has wide scope in every MNC's.
	CA-	Advanced	CO1 Give students the basic understanding of how
	601	Web	things work in the Web world from the technology
		Technolo	point of view as well as to give the basic overview
 		•	140



	T	1	
		gies	of the different technologies.
			CO2 Understand the concepts of XML and AJAX
			CO3 Students are able to develop a dynamic
			webpage.
	CA-	Advanced	CO1 Studied the detailed knowledge of Thread and
	602	Java	Multithreading
			CO2 Studied the basic concept of Java Database
			CO4 Studied the concept of Servlet and web and
TY	YBB		how to deal with the client and server on web
A (CA)		applications Learned the concept of networking in
Ser	n-VI		java and concept like IP address, Data Input and
			Output Stream
	CA-	Recent	CO1 This subject helps students to get knowledge
	603	Trends in	of recent trends in Information Technology.
		IT	CO2 Students will learn the concept of Network
			Security, Cloud Computing etc, which helps
			students to get job as a developer or network
			administrator in companies.
	CA-	Software	CO1 One of the Imp. Phase of SDLC, Students
	604	Testing	can get job as a Tester in software company.
			CO2 This subject has wide scope in every MNC's
			as Testing process is required from the starting of
			every project.
			CO3 Manual and Automation Testing both covers
			here, students can go for Certifications also which
			helps to get better opportunities in M.N.C's
		1	



Short Term Course Outcomes:

Name of the	Class	Course Name	Course Outcome
Department			0.00000
	EXZDDA	D: 1/ 1	001 0 1 1 1 1 1 1 1 1
BBA(CA)	FYBBA	Digital	CO1 Students are able to implement best
	(CA)	Marketing	practices for creating, measuring, and
			optimizing display ad campaigns.
			CO2 Students are able to effectively build
			users lists, deliver e-mails & generate relevant
			clicks.
			CO3 Understand mobile marketing
			measurement and analytics.
			CO4 Make business decisions from the metrics
			available in Digital Media.
	SYBBA	Full Stack	CO1 Full Stack Web Development
	(CA)	Developer	Programmer will enable you to build
	(011)	Beveloper	interactive and responsive web applications
			using both front-end and back-end
			Č
			technologies.
			CO2 It starts with basics of Web Development,
			covers JavaScript and jQuery essentials, guides
			you to build remarkable user interface via
			Angular or React, helps you to build scalable
			backend applications using Express & Node.js
			plus manage data using MongoDB.
			CO3 By the end of the program participants
			will be become an industry-ready engineer who
			can be readily deployed in a project.
			can be readily deproyed in a project.



Name of the Program	Program code	Program outcome
B.Voc (Bachelor in Mass		PO1 Media Professional,
Communication And		PO2 Films Production Professional,
Journalism)		PO3 Television GEC Professional
		PO4 Advertising Professional,
		PO5 Public Relation Officer
		PO6 Print and Broadcast Journalist
		PO7 Documentary Film Maker
		PO8 Radio Broadcast Professional
		PO9 Fashion Photographer
		PO10 Corporate Communication Manager

Program specific outcomes

Name of the Department	Program specific outcome
Television	Producer, Creative Head, Program me Producer, Serial Director,
	Promo Producer. Cameraman, Editor, Script writer, Sound
	Recordist, Art Director, Media Manager.
Sport Channel	Producer, Promo Producer, On-line Editor, Cameraman, Sound
	Recordist
	Media Manager
Broadcast News (Web News	Editor, Journalist, News Anchor, News Producer, Script writer, TV
Portal, Digital Media)	Correspondent, Cameraman, Sound Recordist, Media Manager.
Print Media	Editor, Journalist, Script writer, TV Correspondent, Photographer,
	Media Manager
Music Channel	Video Jockey, Producer, Creative Head, Program me Producer,



	Promo Producer. Editor, Script writer, Cameraman, Media		
	Manager. Sound Recordist		
Films	Producer, Director, Script writer, Cinematographer, Editor, Media		
	Manager. Sound Recordist, Sound Designer. Art Director, Graphic		
	Designer.		
Radio	Radio Jockey/ R.J, Producer, Creative Head, Program me		
	Producer, Promo Producer. Sound mixter Engineer, Script writer,		
	Sound Recordist, Sound Designer Media Manager.		
Advertisement	Creative Head, Copy writer, Director, client Service Manager,		
	Graphic Designer		
Media Researcher	Academician		

Course outcomes (Semester-wise)

Name of the	Class	Course Name and	Course Outcome
Department		code	
B.Voc	First	Introduction to Mass	CO1 Gain the Knowledge of Mass
(Semester I)	Year	Communication	Communication Field and Understand the
		MC 101	Functioning of Mass Media With Theory.
		Introduction to	CO2 Gain the understanding of the traditional
		Media	print, electronic and web media and inculcate
		MC 102	the knowledge of growth of print, electronic
			Media and Films.
		Basics of Visual	CO3 Develop the knowledge of basic elements
		Communication	of visual Communication through Which create
		MC 103	a scenes of Visual Communication
		Communication and	CO4 To strengthen oral communication skills
		Soft Skills	in Hindi/ Regional Language / English and
		MC 104	develop the knowledge of written in Hindi/ English/Regional Language.



		Computer	CO5 Gain an understanding of Software's and
		Application	Operating System to learn Computer to
		MC 105	strengthen in IT skill.
		Basic Photography	CO6 To learn and earn throw photography,
		MC 106	CO7 Develop a sense to operate Professional
			camera in advance Audio- Video Field.
B.Voc	First	Social issue and Idea	CO1. understand the sociological concept and
(Semester	Year	(MC-201)	theories
II)			CO2. understand the importance of sociology
			CO3. create understanding of the human society
			CO4. To develop the knowledge of Indian culture
			and Society
			CO5. inculcate the knowledge of current socio-
			cultural issues
B.Voc	First	Introduction	CO1. introduce students to the basics of
(Semester II)	Year	To jounalisam	journalism.
		(Mc 202)	CO2. inculcate the knowledge of elements of
			journalism.
			CO3. acquaint them with important aspects of
			the process of Journalism.
			CO4. develop the knowledge of skills of
			journalism.
			CO5. enhance understanding of the technical
			terms and jargons of Journalism.
		Language skills	CO1. Improved laguage skills .
		(Mc 203)	CO2. coroporate laguages and skill.
			CO3. Stages of languages skills. Devlop Carrier
			base skill.
		Advance	CO1. film ficition and non fiction photography.
		photography and	CO2. Photograhy hardware and software with
			equitment specfic.
		l	



		Photojournalism	CO3. photo and video tools.
		(MC 204)	CO4. Impart basic concepts and importance of
			Photography . Prepare photo journalist.
			Encourage self employment.
			CO5. Encourage creative skills
			CO6. Develop interest in photo journalism
			knowledge about photography and lighting.
		Design and Graphics	CO1. Introduction to graphics design.
		(MC 205)	CO2. learn Graphics and graphics releted
			softwares.
			CO3. logo branding and graphics industry how
			it work ?
			CO4. How graphics and enterteaiment industry
			co releted with each other and their details.
		Experimental	CO1. Understand basics of news writing.
		Journal	CO2. To understand the theory, methods, and
		(MC 206)	practice of gathering information and writing
			news.
			CO3. To understand different writing
			techniques.
			CO4. To develop the knowledge of web
			writing.
			CO5. To inculcate the knowledge of news and
			backgrounder.
B.Voc	Second	Introduction to Mass	CO1. impart basic concepts meaning and
(Semester	Year	communication	models of mass communication
III)		thery	CO2. make students aware about problems and
		(MC 301)	issues of the mass communication.
			CO3. Inculcate knowledge of communication



	and relations with media and society.
	CO4. Know the functioning of media in mass
	communication coverage.
	CO5. Understanding the India and its
	problems with mass communication theory.
Video editing theory	CO1. Impart basic concepts of Television and
(MC 302)	its development.
	CO2. Aware importance of television in media.
	CO3. Encourage graduates for self
	employability. 4. Inculcate knowledge of
	economy of television media.
	CO5. Knowledge of the functioning of
	television channel, agencies, production house
	etc
Camera	CO1. learn and earn throw videography.
Fundamental	CO2. To understand videography basic.
	CO3. To understand the video structure. learn
	and work about various types of videography.
Camera and lighting	Practice with light and camera.
exe.	(Various type of lights)
(MC 304)	
Video Editing Exe	CO1. Familiarize the students with the basics
(MC 302)	of editing.
	CO2. understand the process of editing for
	various platforms.
	CO3. create understanding of specialized reporting CO4. inculcate the knowledge of dummy,
	printing and layout. CO5. develop the knowledge of edit.



		Television	CO1. Understand Television journalism while
		journalisam	practicing in the studios how to handle and use
		(Mc 306)	various television gadgets.
			CO2. Students will understand new trends in
			television journalism.
			CO3. introduce students techniques and skills
			for presentation, anchoring for television
			programme production.
			CO4. Students will know the procedure and
			techniques of different programme formats of
			television news and news based programme
			such as Field Report, Special Report, Election
			Report, Ground Report and walk and talk
			programme.
			CO5. Students will acquire skills and learn to
			use different softwares for editing television
			Programmes.
B.Voc	Second	Introduction To	CO1.Provide knowledge about the definitions
(Semester IV)	Year	Digital Media	and concepts of Digital media concept
		(MC 401)	CO2. To know the difference between Digital
			media and other media
			CO3. understand the basic tools of digital media.
			CO4. impart the fundamentals of digital media
			and marketing career options.
		Script writing	CO1. Introduction to script writing.
		(MC 402)	CO2. vairous types of scripts study.
			CO3. wriring project scripts.
		Introduction to	CO1. provide knowledge about the definitions
		Audio Visual	and concepts of Audio Visual concept
		Narrative	CO2. To know the value of audio visual



		(MC 403)	CO3. understand the basic tools of audio
			visual.
			CO4. impart the fundamentals of audio visual
			and career options.
		Film apprication	CO1. Understand the film language.
		(MC 404)	CO2. Understand the making of films.
			CO3. Understand the various aspect of film.
		Basic Of Visual	1. Basic of Visual composition.
		composition	2. Types and other important factor.
		(MC 405)	3. Details study about visual language and
			aspect.
		Digital media and	CO1 Actual use of Digital media.
		digital media Exe.	
		(MC 406)	
B.Voc	Third	Media Research	CO1. Impart the definitions and basic concepts
(Semester V)	Year	(MC 501)	of research, communication research, media
			research, social research and difference
			between communication research, media
			research and social research.
			CO2. Understand the need, role, importance
			functions and ethics of research.
			CO3. Know the elements of research.
			CO4. Learn the types of research.
			CO5. Impart the knowledge of basics of
			statistics and media metrics.
		Radio Programming	CO1. Understand radio journalism while
		(Mc 502)	practicing in the studios how to handle and use
			various radio instrument and the mixers.
			CO2. Engage students in new trends in radio



	journalism
	CO3. Introduce students to the presentation,
	interviewing skills for new online radio.
	CO4. Visit radio commercial radio studios
	CO5. Acquaint students with the real world of
D. A. A. L. C. L.	radio production and transmission.
Basic Advertising	CO1. Impart basic concepts of advertising and
(MC 503)	its development.
	CO2. Aware importance of advertising in
	media.
	CO3. Encourage graduates for self
	employability.
	CO4. Inculcate knowledge of economy of
	media.
	CO5. Knowledge of the functioning of
	advertising agencies
Research seminar	CO1. Practicle about researchstudy.(Specfic
(MC 504)	sub) Develop a presentations to how research
	paper is present in seminar.
Audio Production	CO1. Gain Knowledge of Audio production.
(MC 505)	Actual Use of Audio Production. Introduction
	to Audio production
	CO2. learn vairours software audio production
	CO3. film and audio reletions
	CO4. How audio and enterteaiment industry co
	releted with each other and their details. (film
	project)
Video Production	CO1. Gain Knowledge of video production.
(MC 506)	Actual Use of video Production. Introduction to
(1.10.200)	Audio production
	Audio production



			CO2. learn vairours software audio production
			CO3. film and video reletions
			CO4. How video and enterteaiment industry co
			releted with each other and their details. (film
			project)
B.Voc (Semester V)	Third Year	Media Research (MC 501)	CO1 Impart the definitions and basic concepts of research, communication research, media research, social research and difference between communication research, media research and social research. CO2 understand the need, role, importance functions and ethics of research. CO3 know the elements of research. CO4 learn the types of research. CO5 impart the knowledge of basics of statistics and media metrics.
	Third Year	Radio Programming (Mc 502)	CO1. Understand radio journalism while practicing in the studios how to handle and use various radio instrument and the mixers. CO2. Engage students in new trends in radio journalism CO3. Introduce students to the presentation, interviewing skills for new online radio. CO4. Visit radio commercial radio studios CO5. Acquaint students with the real world of radio production and transmission.
	Third Year	Basic Advertising (MC 503)	CO1. Impart basic concepts of advertising and its development. CO2. Aware importance of advertising in media. CO3. Encourage graduates for self employability. CO4. Inculcate knowledge of economy of media. CO5. Knowledge of the functioning of advertising agencies
	Third Year	Research seminar (MC 504)	CO1. Practicle about researchstudy.(Specfic sub) Develop a presentations to how research paper is present in seminar.
	Third Year	Audio Production (MC 505)	CO1. Gain Knowledge of Audio production. Actual Use of Audio Production. Introduction to Audio production CO2. learn vairours software audio production



			CO3. film and audio reletions
			CO4. How audio and enterteaiment industry co releted with each other and their details. (film project
	Third year	Video Production (MC 506)	CO1. Gain Knowledge of video production. Actual Use of video Production. Introduction to Audio production
			CO2. learn vairours software audio production
			CO3. film and video reletions
			CO4. How video and enterteaiment industry co releted with each other and their details. (film project.
B.Voc (Semester Vi)	Third Year	Public Reletion (MC 601)	CO1. Provide knowledge about the definitions and concepts of public relations, publicity, propaganda, advertising and e-PR. CO2. know the difference between public relations and corporate communications, public relations and advertising, public relations and propaganda, public relations and publicity ,propaganda and publicity. CO3.understand the basic tools of public relations. CO4. impart the fundamentals of public relations writings. CO5. learn the ethics and laws of public relations
	Third Year	Current Affair	CO1 Impart the extensive knowledge about general knowledge, general awareness and contemporary activities at local, regional, national and international level about socio – economic issues.
			CO2. develop the extensive knowledge about general knowledge, general awareness and contemporary activities at local, regional, national and international level about political issues.
			CO3. To inculcate the extensive knowledge about general knowledge, general awareness and contemporary activities at local, regional, national and international level about educational and



		cultural issues. CO4. To impart the extensive knowledge about general knowledge, general awareness and contemporary activities at local, regional, national and international level about religious and spiritual issues. CO5. To develop the extensive knowledge about general knowledge, general awareness and contemporary activities at local, regional, national and international level about media related issues.
Third year	Media- Laws and ethics (MC 603)	CO1 Shall get aware to legal aspects of the media and its values. CO 2. Shall have an overview of recent changes and future challenges of media regulation CO3.Shall have understanding of media ethics. CO4.Shall know how media laws and ethics empower media practitioners to perform their duties with commitment. And 3 Projects – Practicals.
	(MC 604)	Vocational project 1 audio visual prod.
	(MC 605)	Vocational project 2 Mini Dissertation
	(MC 606)	Vocational project 3 in Death reporting



