2.6.1 Course Outcomes for all courses (Programme outcomes)

Sr. No	Programme	Subjects
1		Marathi (Second language and Optional)
2		Hindi (Second language and Optional)
3		English (Compulsory and Optional)
4		Sociology
5	B.A.	History
6	D.A.	Political Science
7		Economics
8		Physical Education
9		Geography
10		Public Administration
11	M.A.	Geography
12		Chemistry
13		Zoology
14		Botany
15		Environmental Science
16	B.SC.	Microbiology
17		Physics
18		Electronics
19		Mathematics
20		Computer Science

Faculty of Arts

Department of Marathi Programs offered: B.A. Marathi

Department of Marathi Programs offered: B.A. Marathi

Sr. No.	Program	Program objective	Program Specific Objectives
No.	B.A. Marathi	उच्च माध्यमिक शिक्षणानंतर विद्यार्थी महाविद्यालयीन शिक्षण घेतांना ऐश्चिक मराठी हा विषय अधिक स्वरुपात ज्ञान मिळावा ही अपेक्षा असते. विद्यार्थ्यांमध्ये भाषीक गोडी सोबतच वाङ्मयीन प्रकाराची ओळख व्हावी व या विषयात रोजगार संधी तयार व्हावी हा मुख्य उद्देश मराठी विषय अभ्यासण्यापाठीमागे आहे.तसेच भावनिक क्षमता व संवेदनशीलता विद्यार्थ्यांनी आत्मसात करावी हा उद्देश आहे.	PSO1. मराठी गद्य प्रकाराची आणि त्याच्या उपघटकांची या माध्यमातून ओळख होते. PSO2. कथा, कादंबरी, नाटक कविता, आत्मचरित्र या साहित्यप्रकारा मुळे विद्यार्थ्यांमध्ये संवेदना व भावना या मूल्यांची पेरणी होते. PSO3. व्याकरणाच्या अभ्यासातून व्यवहारात उपयोजन लक्षात येते. PSO4. मराठी विषय घेतलेल्या विद्यार्थ्यांना मुद्रितशोधन, अनुवाद लेखन आणि जाहिरात, बातमी यासारख्या वेगवेगळ्या क्षेत्रात काम करण्याची संधी प्राप्त होते. PSO5. समाजजीवनातील बारीक-सारीक गोष्टी निरीक्षणातून सर्जनशील तिची निर्मिती होते.

Courses offered: F.Y.B.A. Marathi, S.Y.B.A. Marathi and T.Y.B.A. Marathi

Sr.	Course	Course outcome
No.		
	B.A. F.Y.	CO Paper- I: आधुनिक मराठी कथा वाङ्मय.
		१) विद्यार्थ्यांनी कथा वाङ्मय हा प्रकार व्यवस्थितपणे समजून घेतले आहेत.
		२) विद्यार्थ्यांना मराठी कथा साहित्य प्रकाराचे कालानुक्रमे स्वरूप लक्षात
		आले.
		३) हा पेपर अभ्यासल्या नंतर विद्यार्थ्यांना साहित्याच्या विविध प्रकाराची
		ओळख झाली.
		४) कथा साहित्यप्रकाराची अभिरुची निर्माण झाल्याने यासारखी अनेक कथा
		त्यांनी मिळून वाचलेल्या आहेत.
		५) या अभ्यासाच्या माध्यमातून विद्यार्थ्यांना विविध बोलीभाषेचा परिचय
		झाला.
		६) भाषिक कौशल्यांचा या पेपरच्या अनुषंगाने विद्यार्थ्यांमध्येही कला
		काहीप्रमाणात अवगत झाली
		CO paper II मध्ययुगीन आणि आधुनिक मराठी पद्य वाङ्मय
		१)मध्ययुगीन व आधुनिक काव्यप्रकाराची ओळख झाली

२)कवितेच्या परंपरेचा अभ्यास करता आला.	
३) कवितेचे विविध प्रकार, प्रवाह, प्रकृती व परंपरा यांचे आकलन झाले.	
४) कवितेचे रचना बंदाची ओळख झाली.	
CO Paper – III. मराठी कथात्म साहित्य	
१) चरित्र आत्मकथन कथा प्रवास वर्णन ललित गद्य या वांग्मय प्रकार	ातुन
विद्यार्थ्यांना साहित्य आणि संस्कृतीची ओळख झाली.	
२) अभ्यासक्रमातील घटकांच्या माध्यमातून महान व्यक्तिमत्त्वाचा पि	रेचय
झाला.	` ' '
३) चरित्र, आत्मकथनातून महान व्यक्तिमत्त्वाचा, अनुभूतीचा उपयोग त्यां	ांच्या
जीवनात होत असल्याचे त्यांच्या लक्षात आले.	
४) कथात्म साहित्यातील विविध लेखन प्रकारांची यानिमित्ताने विद्याथ्य	र्यांना
माहिती झाली.	***
५) मराठी कथात्म साहित्य अभ्यासताना विद्यार्थ्यांची वाचन आणि ले	नेखन
अभिरुची वृद्धिंगत झाली.	
६) साहित्याचा मानवी जीवनावर होणारा परिणाम या घटका	ाच्या
अभ्यासातून विद्यार्थ्यांच्या लक्षात आला.	
CO Paper IV. मध्ययुगीन आणि आधुनिक मराठी पद्य वाङ्मय.	
१)विद्यार्थ्यांच्या भाषिक	
आकलनाची पूर्तता झाली.	
२) ओवी ते लावणी असा काव्याचा प्रवास समजला.	
३) मराठी कवितेच्या वैभवशाली परंपरा ची ओळख झाली.	
४) अलंकार, ओवी, मुक्तछंद ,उपदेशपर कवितेची ओळख झाली	
B.A. S. Y. CO Paper V निवडक मराठी गद्य	
•	
१) मराठी गद्य साहित्याची ओळख झाली.	
२) ऐतिहासिक टप्यावरील बदलते गद्य अभ्यासले.	
३) मध्ययुगीन आधुनिक काळातील गद्य लेखनाचे बारकावे तपासता आले	-
४) गद्य साहित्यातील विविध लेखनप्रकार माहिती झाली.	•
५)अभ्यास घटका आधारे तत्कालीन परीस्थितीवर प्रकाश टाकता आला.	
yer an is a easily activity of the sixth sixth.	•
CO Paper VI- मराठी नाट्यम साहित्य.	
१]आधुनिक मराठी नाटकाच्या प्रेरणा समजून घेतल्या.	
२] साठोत्तरी मराठी नाटकांचा नाटकाच्या जाणिवांचा अभ्यास केला.	
३]नाट्य प्रकारांचा जवळून अभ्यास केला.	
४]जागतिकीकरणाच्या परिप्रेक्ष्यातून मराठी नाटकांची मीमांसा केली.	
५]आधुनिक नाटकाच्या प्रवाहातील वांग्मयीन आणि रंगमंचाची मूल्य	गांची
मीमांसा केली.	
Co Paper VII निवडक कादंबरी वाङ्मम .	
१]कादंबरी वाङ्मम प्रकार समजून घेतला.	
२]मराठी कादंबरी वाङ्मम कालानुक्रमे स्वरूप समजून घेतले.	
३]कादंबरी वाङ्मम लेखना नुसार विविध प्रकाराची ओळख तयार झ	ाली.
४]कादंबरी वाङ्मम यात विद्यार्थ्यांची अभिरुची निर्माण झाली.	
्रायाच्या याञ्चम यात विद्याच्या या जामरेया विमाण झाला.	

	CO Paper – VIII वैचारिक साहित्य
	१] वाङ्ममयीन व भाषिक आकलन क्षमता वाढली.
	२]कालानुक्रमे अभ्यास घटकाद्वारे अध्ययन सुलभता निर्माण झाली.
	३]आधुनिक कालखंडातील विचारधारा समजून घेतली.
	४]अभ्यासाच्या व लेखनाच्या अभिरुची विकसित झाल्या.
	५]वैचारिक वाङ्ममयाचा परिचय घडला.
B.A. T.Y.	CO paper-IX मध्ययुगीन मराठी वांग्मयाचा इतिहास.
	१) मराठी वांग्मयाचा स्वरूप अभ्यासता आले.
	२) मध्ययुगीन संत वांग्मयाचा परिचय करून घेता आले.
	३) मध्ययुगीन साहित्य बद्दलची अभिरुची वाढली.
	४) साहित्यातून प्रकट झालेल्या मानवी मूल्यांचा परिचय झाला.
	५) वांग्मय निर्मितीच्या प्रेरणा माहीत झाल्या.
	CO Paper X साहित्यविचार.
	१) साहित्य म्हणजे काय त्याची लक्षणे विद्यार्थ्यांच्या लक्षात आली.
	२) भामह, रुद्रट, दंडी, भरतमुनी या काव्य शास्त्राची ओळख झाली.
	३) अतिशयोक्ती,रस,ध्वनी व पाश्चात्यांनी सांगितलेले प्रयोजन लक्षात आले.
	४) साहित्याची भाषा आणि शब्द शक्ती विचार विद्यार्थ्यांनी आकलन करून
	घेतले.
	५) भरत मुनीचा रस सिद्धांत आणि साहित्य सिद्धांताचे महत्त्व त्यांच्या लक्षात
	आले.
	CO Paper XI मध्ययुगीन मराठी वाङ्ममयाचा इतिहास
	१) मध्ययुगीन रचनाप्रकार अवगत झाले.
	२) संत साहित्य, पंडित साहित्य, शाहिरी साहित्य बखर साहित्य या प्रकाराची
	माहिती झाली.
	३) मध्ययुगातील महानुभव, नाथ, वारकरी ,समर्थ दत्तसंप्रदायाची विचार व
	आचार पद्धती लक्षात आली.
	४) मध्ययुगीन भाषेतील शब्दकळा व भाषिक सौंदर्य विद्यार्थ्यांनी आकलन
	करून घेतले.
	CO Paper XII भाषाविज्ञान व व्याकरण.
	१) अभ्यासघटक अभ्यास केल्यानंतर विद्यार्थ्यांमध्ये भाषेबद्दलची आवड
	निर्माण झाली.
	२) भाषाविज्ञान आणि मराठी भाषा यांचा सहसंबंध लक्षात आला.
	३) भाषेचे मुख्य कार्य कोणते असतात? हे लक्षात आले.
	४) ऐतिहासिक भाषा विज्ञान म्हणजे काय? याचा परिचय झाला.
	५) अर्थपरिवर्तन व ध्वनी परिवर्तन या भाषिक परिवर्तनाची माहिती
	मिळाली.
	६) प्रमाण लेखनाचे नियम व्यवहारात किती उपयोगी असतात हे लक्षात आले.
	७) व्याकरणातील प्रयोग विचार व विभक्ती विचार यांचे स्वरूप समजून
	घेतले.

Department of Hindi Programs offered: B.A.Hindi,

	 				
Sr.	Program	Program objective	Program Specific Objectives		
No.					

B.A.	राष्ट्रभाषा हिंदी के प्रचार	PSO I & III. हिंदी साहित्य की कहानी
Hindi	तथा प्रसार हेतु अहिंदी प्रदेश	और उपन्यास विधा से छात्रों का परिचय
	के छात्रों को राष्ट्रभाषा हिंदी	कर छात्रों में चिंतन एवं लेखन शैली का
	के प्रति आकर्षित करना	विकास करना।
	तथा हिंदी भाषा में उच्च	PSO II & IV. हिंदी नाटक और एकांकी
	शिक्षा ग्रहण करने की प्रेरणा	विधा का परिचय कर नाटक के प्रति
	देना मुख्य लक्ष्य है। जीवन	छात्रों में रूचि उत्पन्न करना।
	मुल्यों की शिक्षा के साथ	PSO (SL)I&II. अहिंदी क्षेत्र के छात्रों
	साथ वर्तमान बेरोजगारी की	को हिंदी भाषा का व्यावहारिक ज्ञान
	समस्या को ध्यान में रखते	देना।
	हुए हिंदी भाषा के माध्यम से	PSO V&VII. भक्ति साहित्य के अध्ययन
	रोजगार के अवसर प्रदान	के माध्यम से छात्रों में मानवता का भाव
	करना महत्वपूर्ण उद्देश्य है।	विकसित करना। काव्य आस्वादन से
		मानवीय संवेदना का विकास करना।
		PSO VI &VIII. विविध कथेत्तर गद्य की
		विधाओं का परिचय कर कथेत्तर गद्य की
		रचनाओं के अध्ययन से चिंतनशीलता,
		वैचारिक प्रगल्भता तथा बौध्दिक प्रौढता
		का विकास करना।
		PSO (SL) III&IV. द्वितीय भाषा
		के छात्रों को प्रयोजनमूलक हिंदी का
		सामान्य परिचय देना।
		PSO IX. हिंदी साहित्य के बृहत
		इतिहास का परिचय करवाना।
		PSO X. प्राद्योगिकी के युग में हिंदी
		भाषा की उपयोगिता से छात्रों को परिचित
		करवाना ।
		PSO XI. छात्रों में साहित्य का शास्त्रीय
		पद्धति से अध्ययन करने की दृष्टि
		विकसित करना।
		PSO XII. भाषा शिक्षण के महत्व के साथ
		साथ भाषाई शुध्दता एवं कुशलता के द्वारा
		रोजगार के अवसर उपलब्ध करना।

Courses offered: F.Y.B.A. Hindi, S.Y.B.A. Hindi and T.Y.B.A. Hindi

Sr.	Course	Course outcome	
No.			
	B.A. F.Y.	CO Paper- I & III : कथा साहित्य	
	Hindi	1. हिंदी साहित्य की कहानी और उपन्यास विधा से छात्रों का	
		परिचय होगा।	
		2. कथा साहित्य की लेखन शैली से परिचय होगा।	
		3. छात्रों में चिंतन एवं लेखन शैली का विकास होगा।	
		 विभिन्न पात्रों की मानसिकता तथा लेखन किया कलापों से 	
		छात्रों में सही और गलत को परखने की क्षमता विकसित	
		होगी।	

	5. साहित्य के माध्यम् से विविध समस्याओं से अवगत होकर
	उन समस्याओं के समाधान के लिए छात्रों को प्रेरणा
	मिलेगी।
	CO paper II & IV: नाटक तथा एकांकी
	1. हिंदी नाटक और एकांकी विधा का परिचय होगा।
	2. नाटक के प्रति छात्रों में रूचि उत्पन्न होगी।
	3. संवाद लेखन तथा वाचन कौशल का विकास होगा।
	4. छात्रों को रंगमंच से संबधित जानकारी प्राप्त होगी।
	5. अभिनय के प्रति रूचि निर्माण होगी साथ ही अभिनय के
	क्षेत्र में करियर बनाने का अवसर प्राप्त होगा।
	CO Paper- I & II : साहित्य भारती (SL)
	1. अहिंदी क्षेत्र के छात्रों को हिंदी भाषा का व्यावहारिक ज्ञान
	प्राप्त होगा।
	2. दिवतीय भाषा के रूप में छात्रों को हिंदी और साहित्य का
	सामान्य परिचय होगा।
	3. अहिंदी क्षेत्र के छात्रों में हिंदी के प्रति रूचि उत्पन्न होगी।
	4. विविध साहित्यिक रचनाओं के माध्यम से छात्रों में नैतिक
	मूल्यों का विकास होगा।
B.A. S.Y.	CO Paper V मध्ययुगीन कविता खंड एक
Hindi	1. भारतीय भिवत साधना का परिचय होगा।
	2. भिवत साहित्य के अध्ययन के माध्यम से छात्रों में मानवता
	का भाव विकसित होगा।
	3. समाजिक सहिष्णुता की वृत्ति का विकास होगा।
	4. भिवत तथा नीति की शिक्षा से छात्रों का आत्मिक तथा
	अध्यात्मिक विकास होगा।
	5 . जीवन दर्शन तथा जीवन मूल्यों का विकास होगा।
	Co Paper VI & VIII : निबंध तथा कथेत्तर गद्य
	1. निबंध विधा का परिचय होगा।
	2. छात्रों में वैचारिक प्रगल्भता तथा बौध्दिक प्रौढता का
	विकास होगा।
	3. कथेत्तर गद्य की रचनाओं के अध्ययन से चिंतनशीलता की
	वृध्दि होगी।
	4. विविध कथेत्तर गद्य की विधाओं का परिचय होगा।
	CO Paper VII आधुनिक कविता खंड दो
	1. आधुनिक हिंदी काव्य का परिचय होगा।
	2. काव्य आस्वादन से मानवीय संवेदना का विकास होगा।
	3. आधुनिक कविता की विविध प्रवृत्तियों का परिचय होगा।
	4. वर्तमान युगीन विविध समस्याओं से परिचित होकर
	समस्याओं के निराकरण के लिए प्रेरणा प्राप्त होगी।
	CO Paper- III : कथेत्तर गद्य (SL)
	1. अहिंदी क्षेत्र के छात्रों को दिवतीय भाषा के रूप में हिंदी

		भाषा तथा हिंदी साहित्य का ज्ञान होगा।
	2.	कथेत्तर गद्य के अध्ययन से छात्रों में चिंतनशीलता,
		वैचारिकता का विकास होगा।
	3.	अहिंदी क्षेत्र के छात्र हिंदी की कथेत्तर गद्य की विधाओं
		तथा रचनाओं से परिचित होंगे।
	4.	कथेत्तर गद्य की विविध रचनाओं के द्वारा छात्रों में
		देशभक्ति, सामाजिक दायित्व, कर्तव्यपरायनता, नैतिकता
		आदि मूल्यों का विकास होगा।
	CO Pa	aper- IV : नाटक तथा प्रयोजनमूलक हिंदी (SL)
		दिवतीय भाषा के छात्रों को हिंदी नाटक साहित्य का
		र् सामान्य परिचय होगा।
	2.	संवाद लेखन तथा वाचन कौशल का विकास होगा।
	3.	दिवतीय भाषा के छात्रों को प्रयोजनमूलक हिंदी का
		सामान्य परिचय होगा।
	4.	प्रयोजनमूलक हिंदी के अध्ययन से रोजगार के अवसर
		प्राप्त होंगे।
	5.	मिडीया लेखन कौशल विकसित होगा।
	6.	इंटरनेट की उपयोगिता, वेब सर्चिंग, इ मेल निर्माण तथा
		प्रेषण आदि का ज्ञान प्राप्त होगा।
B.A. T.Y.	CO Pa	aper IX हिंदी साहित्य का इतिहास
Hindi	1.	हिंदी साहित्य के बृहत इतिहास का परिचय होगा।
		हिंदी साहित्य के सृजन की पृष्ठभूमि का बोध होगा।
	3.	साहित्यिक प्रवृत्तियों का ज्ञान होगा।
	4.	छात्रों को जीवन दर्शन तथा जीवन मूल्यों की शिक्षा प्राप्त
		होगी।
	5.	साहित्य के इतिहास का अध्ययन भविष्यकालीन निर्माण में
		महत्वपूर्ण साबित होगा।
	CO Pa	aper X: हिंदी भाशा
		हिंदी भाषा के प्रति छात्रों में रूचि उत्पन्न होगी।
		हिंदी भाषा के प्रयुक्ति क्षेत्रों से परिचय होगा।
	3.	प्राद्योगिकी के युग में हिंदी भाषा की उपयोगिता से छात्र
		परिचित होंगे।
	4.	बहुभाषिक विशाल भारत की संपर्क भाषा के रूप में हिंदी
		भाषा उपयोगीता सिध्द होगी।
	5.	हिंदी भाषा अध्ययन के द्वारा नये नये रोजगार के अवसर
		प्राप्त होंगे।
		nper XI: साहित्य□ाास्त्र
	1.	छात्रों में साहित्य का शास्त्रीय पद्धति से अध्ययन करने की
		दृष्टि विकसित होगी।
		छात्र साहित्यशास्त्र के महत्व को आत्मसात करेंगे।
	3.	शब्द और अर्थ के संबधों का बोध होगा।

	4. भाषाई शिल्प के परिवर्तनों का बोध होगा।
CO	O Paper XII: भाशा िाक्षण
	1. भाषा शिक्षण के महत्व से परिचय होगा।
	2. हिंदी भाषा की व्याकरणिक कोटियों से परिचय होगा।
	3. भाषाई शुध्दता एवं कुशलता के द्वारा रोजगार के अवसर
	प्राप्त होंगे।
	4. हिंदी भाषा के साथ साथ विज्ञान तथा व्यापार की अद्यतन
	जानकारियाँ प्राप्त होंगी।
	5. छात्रों में लेखन कौशल विकसित होगा।

Department of English
Programs offered: B.A.English

Sr.	grams offered: Program	Program objective
No.	1 Togram	1 rogram objective
110.	B.A/B.SC First	Objectives:
	year	1) To enable the leaner's to communicate in English through
	Compulsory	close reading of select literary texts.
	English	 2) To develop the skills of speaking, listening, reading, writing, viewing and representing by conducting classroom activities prescribed in the curriculum. 3) To enable the leaner's to make the use of English language for shaping and making meaning according to purpose, audience and the context. 4) To train the learners think in ways that are imaginative,
		creative, interpretive and critical.
		5) To help the learners for acquiring ways of expressing themselves and their relationships with others and their world. 6) To induce the learners for reflecting on their learning through their study of English. Intended Outcomes:
		1) Through responding to and composing a wide range of texts, the learners will begin to use the English language in the best possible manner.
		2) Through the close study of texts, students will develop knowledge, understanding and skills in order to communicate effectively in English.
		3) Learners will value and appreciate the importance of the English language as a key to learning.
		 4) Learners will gain the personal enrichment from study of literary pieces in English. 5) Learners will acquire ability to communicate through oral and written texts.
	B.A/B.SC	Objectives:
	second Year	1) To enhance the ability of the learners to communicate in
	Compulsory	English through close reading of
	English	Select literary texts.
		2) To develop the skills of speaking, listening, reading, writing, viewing and representing by
		Conducting classroom activities prescribed in the curriculum.

3) To make the learners capable in the use of English language for the purpose of meaningful Communication. 4) To impart the creative, interpretive and critical skills through close reading and exercises in the prescribed text. 5) To refine the linguistic competence of the learners through lessons in essential grammar. 6) To carry out a training of using the English language for media and electronic communication. Intended outcomes 1) The learners will be able to use the English language in a refined way for the personal and Social purposes. 2) The students will attain a higher level of understanding and skills in order to carry out Communicative activities. 3) Learners will be able to make practical use of the mechanics of the English language. 4) Learners will be acquiring the skill of using English for media and electronic communication. 5) The ability to communicate and interpret written texts shall be augmented.

Courses offered: F.Y.B.A.English, S.Y.B.A. English and T.Y.B.A English.

Sr. No.	Course	Course outcome	
SEMESTER	B.A. F.Y.Paper	Name of the course: Understanding Prose Fiction Objectives:	
I	No I,II,III,IV	1) To introduce the learners to the basics of Prose Fiction in	
	1 Understanding	English through close reading of select literary texts.	
	Prose Fiction	2) To develop the skills of analysis, interpretation, and critical	
		scrutiny through the study of selected novels and short	
		stories.	
		3) To acquaint the learners with the art of fiction writing in	
		English.	
		Intended Outcome	
		1) Learners will be able to appreciate the texts in English	
		Prose Fiction genre.	
		2) Through responding to different texts of Prose Fiction, the	
		learners will acquaint themselves with the wide range of	
		expressions in the English language.	
		3) Learners will carry out the tasks of interpretation of novels	
		and short stories by studying the critical analyses of the	
		prescribed texts.	
	2 Understanding	Paper 2-: Understanding Poetry in English	
	Poetry	Objectives: 1) To introduce the learners to the basics of	
		Poetry in English through close reading of select literary	
		texts.	
		2) To develop the skills of analysis, interpretation, and critical	
		scrutiny through the study of diverse poetic texts.	
		3) To acquaint the learners with the art of Poetry writing in	

Intended Outcome: 1) Learners will be able to appreciate English Poetry with an understanding of diverse poetic forms and themes. 2) Through responding to different Poetic texts the learners will acquaint themselves with the various nuances of poetic expressions in the English language. 3) Learners will carry out the tasks of interpretation of poems by studying the critical analyses of the prescribed texts. SEMESTER II Nonfictional Prose Nonfictional Prose Paper 3 -: Understanding Non-Fictional Prose in English Objectives: 1) To introduce the learners to the basics of Non-fictional prose in English through close reading of select literaty texts. 2) To develop the skills of analysis, interpretation, and critical scrutiny through the study of diverse Non-fictional prose writings. 3) To acquaint the learners with the art of Non-fictional prose in English. Intended Outcome: 1) Learners will be able to appreciate English Non-fictional prose with an understanding of various prose writings as developed through ages. 2) Through responding to different Prose writings learners will be enriched in the use of prose for diverse thematic expressions. 3) Learners will attain a certain degree of proficiency in the interpretation of English prose. 4 Understanding Drama Paper 4 : Understanding Drama in English Objectives: 1) To introduce the learners to the tradition of drama and the development of dramatic art through ages. 2) To develop the skills of analysis, interpretation, and critical scrutiny through the study of diverse dramatic texts. 3) To acquaint the learners with the art of Drama in English Intended Outcome: 1) Learners will be able to appreciate English Drama with an understanding of various dramatic texts. 2) Through responding to different plays learners will be introduced to various types of dramatic experiences. 3) Learners will be able to critically analyze texts from different dramatic genres			
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Paner No Ohiectives		Paper No	Objectives
		-	1) To introduces students to Indian Writing in English from
Skill Colonial Age up to the			1 '
			contemporary Age, through the study of various literary
course genres such as poetry, prose, essay and			
Drama.			
2) To refine the skills of critical thinking and rhetoric through			2) To refine the skills of critical thinking and rhetoric through
thought-provoking personal	i i	İ	
Response writing, essay writing and research assignments.			thought-provoking personal

3) To equip students with the knowledge and skills to read and comprehend texts in Indian
Writing in English
Intended Outcomes
1) Learners will be able to appreciate the texts in Indian
Writing in English
2) Through responding to different texts of Indian Writing in
English the learners will acquaint
Themselves with the wide range of expressions in the Indian
English language.
3) Learners will carry out the tasks of literary interpretation
by studying the critical analyses of
The prescribed texts.
Paper 6: American Literature
Objectives
1) To address the works of several major writers from the
American literary tradition. 2) To introduce the landmarks in American literature in
various literary genres.
3) To impart an in depth understanding of writings with
dominant debates of the period like
Religious, social, philosophical, political, and aesthetic
aspects of American Literary tradition.
Intended Outcomes
1) The learners will gain an overall insight of the American
literature, and understand the
Background, historical context, the importance of American
literature and its role in the society.
2) The learners will identify, explicate, and respond to key
themes and elements in American
literature in various literary genres.
3)Students will be enabled to review and recognize the body
of literary works from America and
will be able to understand the American spirit as well as to
analyze various literary innovations and their culture.
Paper 7: Indian Literature in English Translation
Objectives
1) To introduce the students to the magnificent Indian literary
tradition through exposition to
Some representative works available in English translation.
2) To acquaint the students with the rich heritage of Indian
regional literatures and their
Significance.
3) To induce the students to explore in depth the Indian spirit
as evident from the diverse genres.
Intended Outcomes
1) The students will acquire an introductory knowledge of
Indian literary heritage.
2) The students will be familiarized with the significant

B.A. T.Y.
Enhancement Course (SEC) - Semester III Semester IV
Skill

Skill	1) To introduce the concept and significance of Literary
Enhancement	Criticism in Literary Studies
course	2) To acquaint the learners to the Classical and Renaissance
OptionalEnglish	tradition of Western Literary Criticism
	3) To familiarize the learners with the major contributions of
	select critics
	Intended Outcomes:
	1) Learners will be able to understand the historical
	background of the canon of Western Literary
	Criticism
	2) Learners will appreciate the various theories developed
	during the Classical times and European
	Renaissance
	3) Learners will be sensitized to the foundations of different
	critical traditions
	Objectives:
	1) To introduce the learners to the study of the physical
	aspects of speech.
	2) To impart training in the transcription of the sounds of the
	English Language as per the
	International Phonetic Alphabet (IPA).
	3) To familiarize the learners with the articulatory, acoustic
	and perceptual phonetics.
	Intended Outcomes:
	1) The learners will be able to perceive, and transcribe the
	sounds of the English language, while learning the acoustic
	and articulatory properties.
	2) The learners will gain practical skills of transcribing data
	in the International Phonetic Alphabet (IPA).
	3) The ability of synthesizing speech will be acquired.
	Objectives:
	1) To impart the knowledge of significant propositions
	propounded by major English
	Literary critics.
	2) To acqua in t the learners with the foundation for the
	development of critical schools in English
	Studies after the Renaissance.
	3) To enable the learners for undertaking practical criticism
	Intended Outcomes:
	1) Learners will understand the basic principles of Literary
	Criticism as revealed from the study of the individual critics.
	2) Learners will perceive the development of English Literary
	Criticism through the ages.
	3) An ability to appreciate literary text through the practice of
	actual critical analysis will be gained.
	Objectives:
	1) To develop a good understanding of modern English
	grammar.
	2) To enable the learners to produce grammatically and
	idiomatically correct language.

 3) To impart the knowledge of the theory and practice in the field of English grammar at contemporary times. Intended Outcomes: 1) The learners will be able to have an appreciable understanding of English grammar. 2) The learners will gain capability of producing grammatically and idiomatically correct spoken and written discourse. 30 The learners will acquire the skill oflocating language
errors and ambiguities. Objectives The course prepares the learners for a smooth entry in to the world of work Self-awareness and social awareness are developed Skill necessary for digita llife style are introduced Utility of the Course: Developing personal and social skills in the learners Creating gender awareness Developing skills for individual and group activities Objectives: To assist the learners for a smooth transition from student life in to the world of work. To develop the skills necessary for understanding one self and the socio-cultural group. To help the learners choose the best ways of utilizing their time, efforts and mental energies. To provide training in skills required to find, understand, evaluate, create, and communicate digital information in a wide variety of formats. To make the learners able to use diverse technologies appropriately and effectively to retrieve information, interpret results, and judge the quality of that information. Prerequisites for the Course: Handouts, course material and activity sheets Progress chart of learners for evaluation of their performance.

Department of Sociology
Programs offered: B. A. Sociology

rrog	rrograms offered: b. A. Sociology			
Sr. No.	Program	Program objective	Program Specific Objectives	
110.				
	B.A. Sociology		PSO1. student learn basic concepts of	
			Sociology and Student could acquire	
			scientific Knowledge of introductory	
			Sociology	
			PSO2. The Students learn societal	
			objectives of Social integration Social	
			Reproduction and Social continuity	
			PSO3. The Students of Sociology	
			must possess the Knowledge of	

	Various Health-related concepts and
	diseases.
	PSO4. Students know the basic
	concepts of sociology.
	PSO5. Students know our culture and
	the society problems
	PSO6. Students know the social
	research methods.
	PSO7. The course also has as its
	focus the changing patterns of
	inequality in contemporary societies
	and students to gain a better
	understanding of their situation and
	region.
	Introduction Period
	PSO8. Students will have an
	opportunity to learn philosophical
	Background of various new-social
	movements in India.
	PSO9. Students Know personality
	development and time management.
	PSO 10. Students will be made to
	elaborate a framework for the
	observation of the present social
	problems.
	prodicting.

Courses offered: F. Y. B. A. Sociology: S. Y. B. A. Sociology and T. Y. B. A. Sociology

Sr. No.	Course	Course outcome	
	B.A. F.Y.	CO Paper- I: Introduction to Sociology	
		1. student will learn basic concepts of Sociology and Student could	
		acquire scientific Knowledge of introductory Sociology	
		CO paper II: Major Social Institutions	
		1.Students will understanding of the basic social Institutions	
		2. The Students learn societal objectives of Social integration Social	
		reproduction and Social continuity.	
		CO Paper – III. Basic Concepts in sociology	
		1. The student will be able know about the basic concepts of	
		sociology.	
		CO Paper IV. Social Institutions and Its Problems 1 Students know our culture and the society problems	
	B.A. S. Y.	CO Paper V- Indian Society: Structure & Change	
	D.A. S. 1.	_ ·	
		1 Students will able to know the social changes between the	
		present and the past is an evident feature of the society.	
		2. The course also has as its focus the changing patterns of	
		inequality in contemporary societies.	
		3. It is quite hope that the sociological perspectives on society. The	
		Social Milieu presented in proposed course will enable students to	

	asin a better understanding of their cituation and region	
	gain a better understanding of their situation and region.	
	CO paper-VI Human Rights and Social Justice	
	1. Studentsareable to understand in emerging aspects of applied	
	knowledge in Human Rights and social issues under the	
	surveillance of Indian constitution.	
	2. Students will able to understand the present course introduced	
	the update of new areas of sociological explorations related to	
	Government policies & schemes as well as to develop familiarity	
	With emerging areas of Human Resource and its interface with	
	social issues.	
	CO Paper – VII Issues and Problems in India Society	
	Students will able to understand the consideration on the legal and	
	the secular state in India. We will explore the contemporary Soc	
	issues, causes of crime, gender discrimination in various	
	institutional context and women's issues that have been central	
	to it.	
	Co Paper VIII New-Social Movement	
	1. Students will know the India is multilingual multi ethnic and	
	multi-cultural country. So that they are various traditions, customs,	
	myths and rituals as well as ethics and social values too.	
	2. Consequently this situation gives birth to radical Neo-social	
	movements and Indian society in hermits of the unique features	
	compared to other societies.	
	3. Students will have an opportunity to learn philosophical Back	
	ground of various now-social movements in India.	
	Second of Annous not begin in the Annous in Indian	
	Skill Enhancement Course – I	
	Personality Development	
	1.To understand Personality Development	
	2 To Know the various Personality Development factors	
	3 Personality Development course will polish student presentation	
	and communication skill and proper to successful career.	
	4. Apply the understanding of communication skill into every day	
	4. Apply the understanding of communication skill into every day practice and understanding the importance human life.	
	4. Apply the understanding of communication skill into every day practice and understanding the importance human life. Skill Enhancement Course – II	
	4. Apply the understanding of communication skill into every day practice and understanding the importance human life. Skill Enhancement Course – II Time Management	
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B.A. T.Y.	 4. Apply the understanding of communication skill into every day practice and understanding the importance human life. Skill Enhancement Course – II Time Management 1 To understand better Time Management 2 To understand the how to SMART (specific, measurable, action oriented, realistic and timely) goals and work toward accomplishing those goals by self-reflection and self-monitoring. DSE – A: Western Sociological Thinkers – IX 1. Students will able to understand the introduces with western 	
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The issue involved in social research and the ways and means of
understanding and studying social reality.
2. Firstly, on the study of research methods as a means of
understanding social reality.
3. Second, the tools and techniques are only instruments and not
the end or goal of research.
4. Thirdly, there are different perspectives and methods (as a
quantitative and qualitative research) of understanding social
phenomena.
SEC – III : Social Counseling – 1II
1. Students will able to social counseling in sociology has very
different kinds of Significance; social counseling has many
challenges and issues in front of sociologist.
2. Students will able to which tools and techniques to the students
for social counseling.
DSE – B : Modern Sociological Thoughts in India – XI
1. Studnets will help student to introduce with modern Indian
Social Thinkers to understand their thoughts and build your own
ideas.
2. Students will know the percolate and develop the philosophy and
principles, to disseminate the constitutional literacy at grass root
level of society, by following multidisciplinary approach of
thinking for getting solution of social problems.
DGE – B: Techniques of Social Research – XII
1. Students will able understanding of the nature of social
phenomena.
2. Firstly, on the study of research methods as a means of
understanding social reality.
3. Second, the tools and techniques are only instruments and not
the end or goal of research.
4. Thirdly, there are different perspectives and methods (as a
quantitative and qualitative research) of understanding social
phenomena. There are no universally accepted methods.
SEC – III : Social Counseling – IV
1. Students will able to understand the moral ethics and values
which would be helpful for the sustainable development of the
human society.
2. This course has field work and field visit camp to provide
opportunities to students to understands issues and problem for
solutions and adopts the counseling skills.

Department of Political Science

Programs offered: B.A. Political Science

Sr.	Program	Program objective	Program Specific Objectives
No.			
	B.A.	This Subject introduces to the	PSO1. To study the various
	Political	concepts; ideas and theories in political	Political concepts and Political
	Science	theory. It seeks explain the evolution	analysis.
		and usage of these concepts, ideas and	PSO2. To study the introductory
		theories with reference to individual	part of Political concepts and
		thinkers both historically and	relevant issues.

analytically.

This Subject gives an in depth insight to the level of state politics in India. In this context it offers to study the patterns of state politics especially in the light of politics of Maharashtra.

This Subject acquaints students with the constitution, design of state structure, institutions and their actual working over time.

In this Subject Students will acquire knowledge of the basic structure, processes & trends of International Politics.

This Subject introduces the basic information and preparation skill for competitive examinations. It tries to explain the evolution and uses of competitive examinations.

This subject introduces the concept, ideas and theories developed in India. It deals with the main sources of the political traditions in modern India and focuses the development of social Institution and as well as various patterns of politics that emerged in modern India.

This Subject deals with foundations, phases and India's Relations with major countries as well as neighbors around her. It seeks to search and ascertain the he major issues and debates in the field of Indian foreign policy and probe India's complex relationship, both bilateral and multilateral with other countries.

This Subject focus on the Classical ideas generated in the western world representation the ancient to the modern.

This Subject attempts to explain the concepts, nature and types of various ideologies. It seeks to clarity the key differences between ideological and other modes of thoughts.

This Subject deals with concepts and dimensions in political sociology. It highlights various aspects of political culture, process of political socialization & modernization, comparatively.

PSO3. To study the Political concepts and its relevant parts.

PSO4. To study the basic concepts of Political theories or issues concern with Political ideas.

PSO5. To Study the various Elements concern with Maharashtra Politics and State Activity.

PSO6. To understand different political issues of Maharashtra Politics.

PSO7. To understand the Government of Maharashtra State and its organs.

PSO8. To understand various Administrative Machineries of Local Government.

PSO9. To prepare students for competitive exams like UPSC, MPSC and other Exams.

PSO10. To expose the students with basic concepts and political institutions like Parliament, Supreme Court, Political Parties Constitution & Democracy etc.

PSO11. To introduce the students with the administrative and Political setup and Mechanism with roll and functions.

PSO12. To develop sensitive citizenship among the students PSO13. To produce students with Key Political concepts like, power diplomacy, propaganda, International Law, UNO National Interest, National Power, Disarmament etc.

PSO14. To introduce the basic of International Relations.

PSO15. The Prepare Students ready for different carriers like Political analyst, Politicians, Media, Professionals and Sensitive Citizens.

PSO16. To acknowledge students with how the great masters explained and analyzed political events and problems of their time and prescribed solutions.

PSO17. To study & understand

This Subject acquaints students with the aspect of modern political analysis.

This subject offers the Skill Enhancement oriented course attempts to fill the void and presents some basic facts, and authentic information about our parliament. It seeks to briefly narrate the structure and functioning of the Indian Parliament while it exists in the session.

This Subject provides the Conceptual Framework of the Democracy and Good Governance. It delves deep into meaning, origin, forms of Democracy and Good Governance in General.

key thinker's seminal contribution to the evolution of political theorizing in India.

PSO18. TO familiar students with change and continuity, major issues and debates in India's foreign policy.

PSO19. To introduce variant stands elaborates in various political ideologies about individual, state and society and its dialectics.

PSO20. To acquaint the students with interdisciplinary approach by connecting two separate disciplines.

PSO21. To acquaint to student about new concept in political science as like political Leadership, study of various approaches of human behavior in politics.

PSO22. To introduce variant stands elaborates in various political ideologies about individual, state and society and its dialectics.

PSO23. To acquaint the students with interdisciplinary approach by connecting two separate disciplines.

PSO24. To encourage learner for absorbing the skill to solve issues, problems in their day to day life as parliament do for the sake of save and strength then democracy.

PSO25. To understand origin, development and challenges before Good Governance in India.

Courses offered:

B.A.F.Y. Political Science, B.A.S.Y. Political Science, B.A. T.Y. Political Science

Sr. No.	Course	Course outcome
01	B.A. F.Y.	CO Paper- I: Introduction of Political Concepts
		i) Pupils will understand the basic Political concepts by standing the
		course.
		ii) Students will be able to solve the Political problems by standing
		this course.
		iii) Students will acquire the judgment power by standing the various
		Political Ideas, concepts and other Political issues concern with
		Politics.

02	B.A. F.Y.	 i) Students will understand the formation, Government and other Political issues concern with Maharashtra Government. ii) Student will be to solve the Political problems by studying this course. iii) Pupils will acquire to understand various Political issues, Political
		process and Political activity.iv) Students get various political ideas concern with state Government and other relevant Political issues.
03	B.A.S.Y.	CO Paper- III: Indian Government & Politics The outcome of course lies in building ideal citizens competition ready skilled, man power mass awareness about the political structure and functionary among the youth. It will also go a long way in building Democracy and mass awareness among with about Indian Constitutions
		with their Fundamental Rights and Duties.
04	B.A.S.Y.	CO Paper- IV: International Relations The Utility of the course Lies in the course Constitution in raising the student's awareness about the global International Politics with Key concepts approaches and Political Institutions like UNO. It will also helps students to prepare themselves for competitive exams like UPSC, MPSC etc. moreover it will career like Political analyst Media,
05	B.A.S.Y.	Professionals and Ideal Politicians. CO Paper- V: SEC –I & II: Basic Information and Preparation
V 3	B.A.S.1	 Skills for Competitive Examination. i) To eradicate fear of civil services examination. ii) To motivate and prepare for civil services examination and other competitive exams. iii) To help the students to know the basic ideas of civil services recruitment. iv) To study the methods and functions of public service commission. v) To study the basic responsibility of administrative officers in Indian Democracy.
06	B.A.T.Y.	CO Paper- VI: Indian Political Thought This course will encourage students to understand and decipher the diverse and often contesting ways in which the ideas of nationalism, democracy and social transformation were discussed in Pre and Postindependence India.
07	B.A.T.Y.	CO Paper- VII: India's Foreign Policy This Course will encourage the student to undertake an n depth analysis of India's foreign policy.
08	B.A.T.Y.	CO Paper- VIII: Western Political Thinker The course will narrate students the legacy of the thinkers and orient them about continuity and change within the western political tradition. It helps them to study historical aspects western state and society.
09	B.A.T.Y.	CO Paper- IX: SEC III: Indian Parliamentary Procedure This paper will helpful and encourage students to know the actual working of the houses the sittings, the role of the presiding officers, the Question Hour.
10	B.A.T.Y.	CO Paper- X: Political Ideology

		This paper will acknowledge students with various classical political
		ideologies and its contemporary relevance.
11	B.A.T.Y.	CO Paper- XI: Political Sociology
		This course will helpful learners to understand dynamics within
		political action, power and process in India and across the country.
12	B.A.T.Y.	CO Paper- XII: Modern Political Analysis
		This paper content will helpful for student to draw new meaning as per
		recent time they can understand new concept of political science in the
		reference of modern age.
13	B.A.T.Y.	CO Paper- XIII: SEC IV: Indian Democracy & Good Governance
		This Course will helpful and encourage students to Acknowledge
		Democratic Process in India.

Department of Economics

			Program Specific Objectives
	Trogram	110gram objective	1 rogram speeme objectives
Frogra Sr. No.	ms offered: B.A. I Program B.A. Economics	Program objective Economic has contributed much to every sector of human development and it has responded to every current activities of knowledge. Economics is relevant to the emerging dynamics of the Indian Economy. The subject is practical and more useful and job-oriented in the multifaceted environment ranging from trade, industry to infrastructure and to the information technology; Economics develop a deeper insight in each students to enable him for the self-employment. Literature in Economics has been increasing at a rapid space. Theoretical and empirical contributions are made continuously which are giving it a greater adaptability and	PSO1. To provide through knowledge about various Economical issues. PSO2. To make the students aware of applications of Economics subject in various Field. PSO3. To highlight the potential of various branches to become an entrepreneur. PSO4. To equip the students with skills related to Banking as well as field based studies PSO5. To inculcate interest and foundation for further studies in Economics. PSO6. To address the socioeconomical challenges related to Social science.

Courses offered: F.Y.B.A. Economics, S.Y. B.A. Economics and T.Y.B.A. Economics

Sr.	Course	Course outcome

No.		
	B.A. F.Y.	CO Paper- I : Micro Economics
		1. Meaning, nature and scope will be studied in this course. 2.
		Student's ability will be utilized to tackle the current economic
		problems.
		3. Students will adept more knowledge in the field of
		modern economics by studying this course.
		4. This course will increase the utility and application
		to acquire more satisfaction in life.
		CO paper II : Economy of Maharashtra
		1. To study the main characteristics of economy in Maharashtra.
		2. To understand the role of Agriculture in economy of
		Maharashtra.
		3. To study the concept of Green revolution.
		4. To consider the role of Industry in economy of Maharashtra.
		5. To study the Industrial policies of Maharashtra.
		CO Paper III: Micro Economics-I
		1. To study the Concept and theories of Production. 2. To understand the concepts of Cost and Payanua.
		2. To understand the concepts of Cost and Revenue. 3. To study the concepts of evaluations through market structure.
		3. To study the concepts of exchange through market structure.
		4. To analyze the theory of distribution into various
		factors of production, such as: Land owner, labor,
		organizer, and Capital owner.
		CO Paper IV: Economy of Maharashtra
		1. Awareness about development in
		economy of Maharashtra will be created.
		2. Students will understand the various
		challenges of Economy in Maharashtra.
		3. Students will be study the problems of economy in Maharashtra.
		4. Students will be enriched with the different
		concept of economy in Maharashtra.
		5 This study suggests remedies for different
		Problems in economy of Maharashtra.
	B.A. S. Y.	CO Paper V : Macro Economics
		1. To prepare the students to understand the basic introductory
		principles of macroeconomic theory.
		2. To help students to understand the basic
		analytic framework and models of
		macroeconomics in a gradual manner.
		3. To equip students to analyses the real world economic issues in a
		rational manner.
		Co Paper VI: Economics Development
		1. To make students sentient with the changes in development
		concepts.
		2. To furnish the students with recent development theories.
		3. To highlight the classical, neoclassical and
		modern approach towards development.
		5. To elucidate the role of government's scheme in economic
		development.
		-
		CO Paper VII : Macro Economics-II

T	
	1. To prepare the students to understand the basic
	introductory principles of investment multiplier and
	principal of acceleration.
	2. To help students to understand the basic analytic
	framework and models of banking system in a gradual
	manner.
	3.To equip students to analyses the globalized world economic
	issues in a rational manner
	CO paper-VIII : Economics Development and Envernment-
	VIII
	1. To familiarize students with the Environmental Concept.
	2. To highlight the importance of environment in the process of
	development.
	3. To elucidate different theories of environmental policy.
	4. To emphasize the environmental problem in India
B.A. T.Y.	CO Paper IX : Quantities Technique
D.A. 1.1.	
	1. Student will study the course as a guideline in the general economic affair.
	2. Student will use techniques easily in the research of humanities.
	3. The course will be useful to the student since the course is best
	on the techniques of statistics
	CO Paper X : Indian Economy
	1. Student will acquire the knowledge of Indian Economy.
	2. Student will understand various challenges of Indian Economy.
	3. Student will be able to suggest various measures to policy
	makers for solution of economic problem.
	CO Paper XI : Quantities Technique
	1. Students will get knowledge about how the value of money is
	decided.
	2. Students will study price differentiation between base year and
	current year.
	3. Students will study the change in economic factors in course of
	times.
	4. Students will study the economic & social trend with
	the help of moving average method.
	CO Paper XII: Public Finance
	1. Student will able to analyze different concept of public finance.
	2. The student will understand the imbalance between
	public revenue and public expenditure.
	3. The students will suggest various measures to decrease deficit.
	4. The student will be able to evaluate working of recent finance
	commission
 l	ı

Department of Physical Education
Programs offered: B.A. Physical Education

Sr. No.	Program	Program objective	Program Specific Objectives
	B.A. Physical	.Students are able to	PSO1. student learn basic concepts of
	Education	know about all physical	History of Physical Education
		education games and	PSO2. The Students learn Principle of

	sports. Students are achieve the goal in physical education. Students will participate in the national and international games. Students will able to stand and improvement in carrier with the physical education.	Physical Education PSO3. The Students of Sociology must possess the Knowledge of various Health-related concepts and diseases. PSO4. Students know the Basic Anatomy, Physiologyand First Aid PSO5. The course may provide opportunity to higher education specially in the field of physical education PSO6 The course is significant to enhance the abilities of the student to work in the different fields of Physical education in the area of coaching, teaching, guidance & Curriculum development etc. PSO7The course is helpful to get knowledge and skills with respect to coaching, teaching, guidance & Curriculum development etc. in physical education PSO8 The professional abilities and personality of the students may be enhanced
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Courses offered: F.Y.B.A. Physical Education S.Y.B.A. Physical Education and T.Y.B.A. Physical Education

Sr. No.	Course	Course outcome
	B.A. F.Y.	CO Paper I- History of Physical Education
		1.student will learn basic concepts of Physical Education
		2.Students know the history of physical Education
		3. Students Know the awards in games and sports
		CO Paper II- Practical
		1.Students will understanding Skill and techniques in running
		2. The Students learn about the optional games
		3. Students will understand the Indian games
		CO Paper III- Principal of Physical Education
		1. The student will be able know Biological basic of physical
		education
		2.Students is able to understand the meaning of play and games
		3.Students will know about the role of National integrity and
		Indian culture
		CO Paper IV- Practical
		1 Students will able to understand the height measurement shot-
		put, Long jump, Table tennis, etc.
		2. students are able to understand the mentation the record in

		record book.
В	.A. S. Y.	CO Paper V- Basic Anatomy, Physiology and First Aid1
		1. Students will able to know the anatomical structure of human
		being
		2. Students will able to understand the physiology of all system in
		human body.
		3. Students are able to the use of first aid after injuries on playing
		in ground.
		Co Paper VI External Practical
		1. Studesnts will able to understand the practical work in Pulse rate
		Measurement,. Relay (4*100 /4*400) Men and Women, Kho-Kho,
		Yoga/ weight lifting, Dand Baithak (Men), Bent Knee Sit-ups.
		SEC-1 Fitness and wellness
		1. Students will able to understand the different fitness exercise.
		2.Students will know about Nature and Duties of Life Guard
		CO Paper – VII Fitness and Diet
		1. Students will able to understand the fitness of body.
		2. Students will able to know about the types of posture
		3. Students will able to understand about diet and nutrition.
		CO paper-VIII External Practical
		1.Students areable to understand the fundamental skill in different
		games like Throwing event, Jumping event, Cricket, judo etc.
		Skill Enhancement Course – II Curative Therapies
		1. Students will able to understand the Concept & types of
		massage, Techniques of massage, Massage for body relaxation,
		Massage for disabled people, Benefits of massage.
		2. Students will bale to understand the Types of acupressure, Points
		of acupressure, Acupressure for upper body extremities,
		Acupressure for lower body extremities, Precautions of acupressure
	A T X/	Benefit of acupressure.
B	.A. T.Y.	DSE – A : Paper-IX ORGANIZATION AND MANAGEMENT IN PHYSICAL EDUCATION
		Students are able to understand the basic management in physical education
		2.Students will be understand organize the games and tournaments.
		Paper- X Generic Elective, Physical Education Practical
		Srudents will know about the practically play the games as sports
		SKILL ENHANCEMENT COURSE -III
		Yogic Therapies and Sports Physiotherapy
		Students arre able to understand the Yoga , diet and physiotheropy
		Paper-XI Test measurement and Psychology in Physical
		Education and Sports Students are able to understand the Test and Measurement
		Students are able to understand the Test and Measurement,
		Construction and classification of Test, Scope of Sports
		Psychology. Paper Viigoporio Floativo Physical Education Practical
		Paper- Xiigeneric Elective Physical Education Practical 1 Students will able to understand the Elevibility measures. Track
		1. Students will able to understand the Flexibility measures, Track
		and Field event: High Jump, Aerobics Activities, Volley Ball,

Hand Ball
2.Students are able to know about the Historical development, ground measurements. Rules and regulation, records and awards
5
SEC-IV Officiating and Coaching
1. Students will able to understand the Officiating in Kabaddi,
Officiating in Kho-Kho, Officiating in Volley Ball, Officiating in
Cricket, Officiating in Track and Field.
2. Students are able to understand the Ground Management in
Kabaddi, Ground Management in Kho-Kho, Ground Management
in Volley Ball, Ground Management in Cricket.
3. Students are able to understand the Coaching of Basic Skills in
Kabaddi, Coaching of Basic Skills in Kho-Kho, Coaching of Basic
Skills in Volley Ball, Coaching of Basic Skills in Cricket.
4. Students are able to understand the Coaching for Conditioning
Exercise, Coaching for General Physical Fitness, Coaching for
Motor Fitness, Coaching for Kids and Children's

Department of History Programs offered: B.A. History

Sr. No.	Program	Programme objective	Programme Specific Objectives
	B.A. History	The programme educational objective of the undergraduate programme in history, WILL be able to: • To acquaint students with the past and present of India and the World • Impart a critical understanding of Indian society, economy, polity, and culture through a historical perspective • To prepare students for a range of careers • To stimulate intellectual curiosity and research attitude in the students • To introduce the various Indian and foreign traditions of history writing	PSO1. To understand the historical advancement of Ancient India from stone age to 647 A.D. PSO2. To understand the historical events from 648 A.D. to 1526 A.D. PSO3. To understand the most important and inspiring history of Chhatrpati Shivaji Maharaj and his times. PSO4. Students WILL understand the historical advancement of Mughal period 1526 to 1707 A.D. PSO5. To introduce Indian Freedom Struggle Movements in broad manner. PSO6. To aware the students to know the contribution of Social Reformers & social change process in Modern Maharashtra. Skill Enhancement Course PSO7.(SEC) To introduce the students to the Indian art & Tourism. PSO8. (SEC) To introduce the students to the Indian art from past to present.

Courses offered: F.Y.B.A. History, S.Y. B.A. History and T.Y.B.A. History

Sr. No.	Course	Course outcome
	B.A. F.Y.	CO Paper- I & III: History of Ancient India (up to 647 A.D.) 1. Student will have the brief introduction of Ancient Indian History. 2. students will have information of sources of Ancient Indian History. 3. Students are must be familiar with the religions in Ancient India. 4. Students are must be knowing the achievements of some eminent kings in Ancient India 5. Students will have more information of Indus valley civilization and Vedic age. 6. Create interest among students about Ancient periods Empire and Dynasty.
		CO Paper II & IV: History of India (648 to 1526 A.D.) 1. Students must be known about the archaeological and literary sources. 2. Students are must be familiar with historical events from 648 A.D. to 1526 A.D. 3. Develop a broad view among students about various Empire and dynasty. 4. Create an interest among the students about muslim invasions and dynasties.
	B.A. S. Y.	CO Paper V & VII: Chhatrpati Shivaji and his Times (1630 A.D. to 1707A.D.) 1. Student will have the brief introduction of Chhatrpati Shivaji and his contribution. 2. Students will be aware of conflict of Chhatrpati Shivaji with Adilshahi and Mughal. 3. Students are must be familiar with Adilshahi, Nizamshahi and Mughal. 4) Students will be understand the real history of Chhatrpati Shivaji Maharaj and his times 5) Students will be understand the benevolent nature of Chhatrapati Shivaji's regime 6) Students will be focus on the contribution of Chhatrpati Shivaji in building an independent Swarajya 7) Students will be introduce the various policies regarding Agriculture, Water management, Environment and Scientific approach of Chhatrpati Shivaji Maharaj. 8) Student will have the brief introduction of Chhatrpati Sambhaji and his contribution. 9) Student will be understand the real history The Maratha war of Independence 10) Student will have the brief introduction The Maratha Administrative System
		Co Paper VI & VIII: History of India (1526 A.D. to 1707 A.D.) 1) Students will have information of sources of Mughal History. 2) Students will understand the historical advancement of Mughal period 1526 to 1707 A.D. 3) Students will understand the Political aggressiveness of Mughal and British in this age. 4) It will develop the broad view about the religious development of Mughal and British in India

	5)Students will have information about Establishment of British Power in	
	india 6) It WILL introduce the students about the contributions of British	
	governors. 7) Students will understand the Expansion of British Rule in India	
SEC	Skill Enhancement Course	
	CO SEC Paper I & II TOURISM	
	1) To introduce the students to the Indian art.	
	2) To appreciate the various contexts of lot of things about Tourism.	
	3) To give wide exposer to the Tourism through site visits and visual effects.	
	4) To create awakening to conserve the heritage by way of establishing Tourist places.	
	5) To enhance the views regarding the Indian Tourism.	
	6) To enrich the understanding of the students with reference to creative	
	sites for Tourist.	
	7) To enable the students for their vocational careers.	
	8) To get jobs in Tourism Department and Tourism Industries.	
	9) To conserve the historical Monuments and places in their local areas	
B.A. T.Y.		
	CO Paper IX & X : History of Modern India (1857-1947 A.D.)	
	1. To introduce Indian Freedom Struggle Movements in broad manner. 2.	
	To instil the spirit of nationalism among students.	
	3. Make the students responsible Citizen of the nation.	
	4.To inculcate moral qualities like Devotion, Unity, Fraternity,	
	Brotherhood in students.	
	5. To make the students aware of criticizing.	
	6. To enhance the national interest among the students.	
	7. To support the spirit of competency.8. To inculcate the National and International virtues in the minds of	
	students.	
	9. To enlighten the spirit of fellow feeling.	
	10. To elaborate the Modern Indian History in various contexts.	
	CO Paper X & XII : Social Reformers in Modern	
	Maharashtra	
	1. To acquaint the students with social change process in Modern	
	Maharashtra.	
	2. To introduce the educational development in Modern Maharashtra.	
	3. To generate curiosity to study the Modern Times History of	
	Maharashtra.	
	4. To enhance the perception ability of the students.	
	5. To widen the broad view of the students about the society.	
	6. To aware the students to know the contribution of Social Reformers. 7.	
	To contribute constructively towards the building of society.	
	8. To make preparation for competitive examinations.	
	9. To maintain the social harmony.	
	10. To know the legacy of the great social reformers and thinkers	

SEC	Skill Enhancement Course
	CO SEC III & IV: Appreciation of Indian Art
	1. To introduce the students to the Indian art from past to present.
	2. To unfold aesthetic prosperity of the Indian art.
	3. To appreciate the various contexts of Indian art.
	4. To give wide exposure to the Indian art through site visits and visual
	effects.
	5. To create awakening to conserve the historical heritage by way of
	establishing the Museums.
	6. To enhance the views regarding the Indian Art.
	7. To enrich the historical understanding of the students with reference to
	creative arts.
	8. To enable the students for their vocational careers.
	9. To get jobs in Archaeology Department and Tourism Industries.
	10. To conserve the historical Monuments and places in their local areas.

Department of Geography
Programs offered: B. A. Geography

	ams offered: B. A. C	1	Duoguam Spacific Objectives
Sr.	Program	Program objective	Program Specific Objectives
No.	D 4 C 1	X : 1 . 1 C	PCO1 T 1 1 1 1 1 1
	B. A. Geography	Inspire the students for	PSO1. To provide through knowledge
		pursuing higher studies	about various Geographical factors
		in Geography and for	PSO2. To make the students aware of
		becoming an	applications of Geography subject in
		entrepreneur and also	various sectors.
		enable students to get	PSO3. To highlight the potential of
		employed in the	various branches to become an
		Geography Related	entrepreneur.
		Sector & Institutes,	PSO4. To equip the students with
		Industries, Educational	skills related to laboratory as well as
		Institutes Research	field based studies
		Institutes and in the	PSO5. To make the students aware
		various concerning	about conservation and sustainable
		department of State and	use of Natural resources.
		Central Government	PSO6. To inculcate interest and
		based on Geography	foundation for further studies in
		subject.	Geography.
		3	PSO7. To address the socio-
			economical challenges related to
			Geography.
			PSO8. To facilitate students for
			taking up and shaping a successful
			career in Geography.
			PSO9. To create interest in nature
			conservation among the students
			PSO10. The life of all living creatures
			on earth depends on nature, so it is
			the duty of human beings to conserve
			nature.
		V. Caramana D. A. C. W. Ca	

Courses offered: B.A. F.Y. Geography, B.A.S.Y. Geography and B.A.T.Y. Geography

Sr. Course Course outcome	
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No.		
140.	B. A. F.Y.	CCGEOG- I: Geomorphology
		1) Students know about the creation and evolution of various earth
		forms.
		2) Students know the process, type and process of rock formation.
		3) By understanding the process of formation of internal and
		external forces of the earth, students get information about the
		forms formed by external factors and internal forces. 4) Students get scientific information about disasters like
		earthquakes and thus remove misconceptions about them.
		CCGEOG - II: Climatology
		1) Students get information about the weather in different parts of
		the world.
		2) Students understand the importance of weather in human life by
		knowing the weather related factors
		3) Students understand the role of climate for human development.
		4) Students get scientific information regarding important factors
		like rainfall, temperature and storms, so various misconceptions
		about it are removed. 5) Students get information about global climate change.
		CCGEOG – III: Practical Geography
		1) Students understand how standard is made and its importance in
		geography
		2) Students understand the importance of Scale for map and plan.
		3) Students are aware of various ReliefShowing methods
		4) Students are aware of the landforms in the land view map.
		CCGEOG – IV:Oceanography.
		1) Students know about the distribution of various oceans and
		seas on earth and their resources
		2) Students know the Surface configuration of ocean floor.
		3) Students understand the chemical and physical properties
		of sea water.
		4) Students understand the process of formation of various
		movements of sea water
		CCGEOG -V: Biogeography
		1) Students understand the process of creation of ecosystems
		_
		on earth, so students develop a scientific view regarding the creation of ecosystems.
		2) Students understand the nature and elements of life on
		earth
		3) Students know about the types of animals and plants on
		earth, their distribution and the problems that have arisen with them.
		CCGEOG – VI: Practical Geography
		- CCCCC , It I Include Googlaphy

	1) Students acquire the skills of reading Indian topographical map.
	2) Students get the skill to get information about various natural
	and cultural elements of the region on the basis of topographical
	map.
	1
	3) Students acquire the skills of presenting geographical
	information with the help of line graphs and bar graphs.
B. A. S. Y.	CCGEO- VII:Human Geography
	1) Students know the real relationship between human and
	environment
	2) Knows the various functions of human beings
	3) Knows about human life in different parts of the world
	4) There is only one human being living in different regions of the
	earth but the geographical conditions of that region have created
	diversity in his way of life. Students get this message of national
	unity through human geography
	CCGEO- VIII Economic Geography
	1) Students know about the economic activities of human beings in
	different regions of the earth
	2) Students have knowledge about agriculture, mineral resources,
	energy resources, industries, trade and transportation in different
	regions.
	3) Students understand the importance of having various natural
	resources for the development of human life 1) Students have Imperiod as about conservation and planning of
	4) Students have knowledge about conservation and planning of natural resources
	CCGEO- IX Practical Geography
	1) Students acquire skills in presenting various geographical
	elements in two dimensional and distribution maps.
	2) Students acquire skills to measure population density and
	population growth
	SEC I Tourism Geography
	1) Students know various aspects of tourism
	2) Students know the role of tourism center in the development of
	various regions
	3) Students acquire various skills related to tourism
	CCGEO- X Geography of Maharashtra
	1) Students learn about the natural resources of Maharashtra, river
	system, soil, vegetation, minerals and energy resources
	2) Students get to know the various features of agriculture, irrigation industrialization and population in Maharashtra and in
	irrigation, industrialization and population in Maharashtra and in all these factors they get information about where Maharashtra is
	compared to other states in India.
	CCGEO- XI Population Geography
	1) Students know about population growth and distribution in the
	world and in India
	2) Students have information about working population, gender
	ratio and literacy rate in India

	CCGEO- XII Practical Geography
	1) Students acquire skills to present meteorological data with the
	help of various meteorological graphs and figures.
	2) Students understand the design and operation of equipment for
	recording meteorological factors
	3) Students acquire the skills of how to read Indian daily weather
	condition map and identify the weather conditions based on it.
	SEC II Soil Geography
	1) Students know the process of formation and distribution of
	different types of soil on earth
	2) Students understand the importance of soil for all living
	creatures on earth and especially for human development
	3) Students acquire soil conservation skills
DATV	
B. A. T.Y.	DSE GEOG-I XIII: Development of GeographicalThought – Part- I
	1) Students know about the development of geographical thinking
	from ancient to modern times
	2) Students know the role of thinkers of different times and
	different countries in the development of geography.
	GE GEOG-I XIV Geography of India – Part- I
	1) Students are aware of the natural elements of India, natural
	climate, river system, soil and vegetation
	2) Students have information about the distribution of water,
	mineral and energy research in India
	3) Students know the importance of planning various resource
	wealth in India.
	DSE GEOG-II XV Practical Geography
	1) Students acquire skills to create different types of projections
	2) Students acquire the skill of surveying the land with the help of
	various instruments.
	SEC III An Introduction to ResearchMethodology
	1) Students know the steps of doing research work
	2) Students get the skills to do research work
	3) Students acquire the skill of Report writing based on the
	researched information
	DSE GEOGIIIXVI: Development of GeographicalThought -
	Part II
	1) Students know the basic concepts of geography
	2) Students get the skills to use various approaches to solve various
	problems by getting acquainted with the study of geography and
	the paradigms in the subject.
	GE GEOG-II XVII Geography of India – Part II
	1) Students are aware of the factors affecting the population
	distribution in India.
	2) Students are aware of the impact of the explosion of population
	growth in India on various sectors 3) Students have a real knowledge of agriculture, industrialization
	3) Students have a real knowledge of agriculture, industrialization,
	trade and colonies in India
	4) Students are aware of issues like regional inequality, poverty
	and gender in India's development

DSE GEOGIV—XVIII: Practical Geography 1) Students have the skill to measure various statistical techniques 2) Students understand the usefulness of computer and geographical information system in the study of geography. Through study tours, students gain observation skills and through village surveys, survey and report writing skills.
SEC IV Disaster Management 1) Students know about disaster management and disaster management rules 2) Gains skills to manage disasters before, during and after disasters. 3) Students acquire the skills to use remote sensing and geographic information systems in various disaster management 4) Students know the role of various agencies in disaster management.

Department of Public Administration

Programs offered: B.A. Public Administration

Programs offered: B.A. Public Administration				
Sr.	Program	Program objective	Program Specific Objectives	
No.				
	B.A. I	Public Administration is one of the	PSO1. The Course introduces and	
	Public	youngest branches of Faculty of	provides knowledge of Public	
	Administration	Humanities. With the expansion of the	Administration.	
		activities of modern state, public	PSO2. To provide knowledge of	
		administration has assumed great	the new trends in public	
		significance in modern society. The Public	administration	
		Administration and Administrative Officers	PSO3. To understand the relations	
		playing impartment role in social and	of public administration with other	
		economic development of the Nation.	humanities	
		Administration is as old as mankind. It has	PSO4. To know District	
		acquired all spheres of human life right	administration.	
		from birth to death. It is very close to the	PSO5. To understands Structure	
		daily life of any person in practical. Public	and function of various	
		Administration Studies the systematic	Administrative offices of District	
		implementation of Laws and Government	Administration.	
		policies, theories principles and its	PSO6. To provide knowledge of	
		controlling system. The subject stands as an	the Revenue Administration,	
		integral element of democratic system of the	Police administration and	
		nation. It is intended that the subject is	Judiciary system at district and	
		introduced, as a optional subject to the	taluka level.	
		students of U.G. level. The subject is	PSO7. After studying the course	
		introduced to comprehend the importance of	students will have a capacity to	
		Administration theory and practice. as well	understand the Basic Knowledge	
		as Public Administration and private	of administrative Organization	
		Administration, Public Private Partnership,	and its principles.	
		civil society and sustainable development.	PSO8. To provide knowledge of	
		The Present system of district	the Functions and qualities of	
		administration owes its origin to the time of	chief executive	
		the Mauryan Empire. But modern structure	PSO9. To understand the	
		of district administration in India developed	importance of public relations in	
		in Colonial Period (1772). At that time was	administration.	
		district administration established for	PSO10. After studying the course	
		collection of revenue. In the present era,	students will have a capacity to	

district is the basic territorial unit of administration in India. District administration is the total functioning of Government in a district level. In this paper focus on providing knowledge of district administration for the Students.

Public Administration is one of the youngest branches of Faculty Humanities. With the expansion of the activities ofmodern public state. administration has assumed great significance in modern society. The course is introduced to comprehend the importance of organizations. as well as line and staff agencies and Chief Exhalative Administrative Organization and principles is an important part of public administration. The focus of the course is on the Hierarchy, Span of control, Moral, Communication etc..

Maharashtra has a parliamentary system of government with two democratically elected houses, the Legislative Assembly (Vidhan Sabha) and Legislative Council (Vidhan Parishad). The Government of Maharashtra is headed by the chief Minister and the Chief Secretary is at the apex of the Administrative Hierarchy of Maharashtra state. The focus of the course is on the Administrative system of Maharashtra state. also introduces with the various commissions in Maharashtra state. The Course goals to inform administrative system of Maharashtra as well as Formation of Maharashtra state. The syllabus makes students to aware of the government and administration of Maharashtra state. It informs U.G. level students about the High Court , Chief Minister, Council of M.P.S.C., Election Ministers, state Commission etc.

understand:

PSO11.To Understand the Role of Chief Minister and State Secretariat in Maharashtra state. PSO12.To understand Structure and function of State Legislature PSO13.To provide knowledge of the state government and Administration.

B.A. II Public Administration

Personnel administration is an important part of Public administration. Personnel administration is the art and science of planning, organizing, directing, controlling and motivating human resources. The main thing is to give knowledge of personnel system in Indian administration, specially how to process of Recruitment, Training, Promotion and Retirement of the Government Sector Employees; and understands all new issue in personnel

PSO14. To familiarize the students with basic process of Civil Service Recruitment in Indian Personnel Administration.
PSO15. To understand how to Train Civil Servants for their Better Role in Indian Governance and Administration.
PSO16. To know the Systematic

Administration (Recruitment to

process in Personnel

administration.

One ofthe most significant development in India since independence in the field of local government has been the establishment of a net-work of Panchvavati Raj Institutions. It is a Three tire system of governance at village, tahsil and district level. Panchayati Raj Institutions playing impartment role in social and economic development of Maharashtra state .The course will throw light on details of the formation and working of Panchayati Raj institutions and powers and responsibilities. The course covers the part which is commonly added in U.P.S.C., M.P.S.C. and other competitive exams. This course would focus on the panchyayati Raj institutions and their administration.

Rural development programmes are designed to facilitate a multi-faceted growth of the rural poor people by extending the benefits of development to them. The main aim of rural development programmes is to improve the living standards of the people and providing them opportunities. In the present era, various rural development programmes have been newly defined by Prime Minister. This course designed to create awareness of rural development in the students.

The E-Governance basically is associated with carrying out the functions and achieving the result of governance through the utilization of ICT (Information and Communications Technology). World Bank explained the "E-Governance as the use by Government agencies of information technology that have the ability to transform relations with citizens." In India, main trust for E-governance was provided by the launching of NICNET in 1987 by the national satellite based computer network. It is established that E-Governance is the application of Information Communication technology to transform the efficiency, effectiveness, transparency and accountability in the government. The course mainly aims at creating new skill in students for Application of E-Governance and Digital Devices in administrative service delivery.

One of the most significant development in India since independence in the field of local government has been the Retirement of the Personnel).

PSO17. To familiarize the students with basic process of Public Service Recruitment in Indian Administration.

PSO18.To throw light on how the public Servants are trained, made professional & skilled so that they work towards development.

PSO19.To brief them about the Systematic process in Personnel Administration (Recruitment to Retirement).

PSO20.To acquaint the students about how the human resource planning is done.

PSO21. To understand Rural Development and Empowerment. **PSO22.**To study various Rural

Development Programmes. **PSO23.**To understand various

results in rural development programmes

PSO24. The students would learn about the Three tier system of Panchayati Raj

Institutions in Maharashtra state. **PSO25.** It will help the students understand do the local self government function for the overall well being.

PSO26. It would demonstrate a basic understanding for various aspects of Three tier system of Panchayati Raj Institutions.

PSO27. The students would be enlightened about the role of Panchayati Raj Institutions in Development of India.

PSO28. To Understand the Role of Urban Local Government in the Development of the Nation.

PSO29.To Develop a Local Leadership in urban area.

PSO30. To Understand the Role of urban local Institutions in urban development.

PSO31. To acquaint the students with the basic local governing system.

PSO32. To familiarize the students with concept of E-Governance and digital

establishment of a net-work of Urban local Institutions. All round development of Urban areas is done through the Urban Administration. To make Municipal Councils and Municipal Corporation strong and democratic under the 74 Amendment of Indian Constitution. The urban local Institutions playing impartment role in the development of Maharashtra state . The course will throw light on details of the formation and working of urban local institutions and powers and responsibilities. The course covers the part which is commonly added in U.P.S.C., M.P.S.C. and other competitive exams. This course would focus on the Nagar Panchyayat, Municipal Council and Municipal Corporation and their administration.

Financial administration thus forms a crucial aspect of public administration. Financial machineries may be designed to promote and develop particular public policies. Government raises fund from the public to meet maintenance expenditure or the running expenses of public administration. The course focuses on the important branch of public administration.

Everyone knows what is meant by an 'Office' but very few are able to define it. Office Administration is a part of general management. The main aim of the paper Office Administration is to introduce the process of the work method. What is role of head of the office in office administration? How to keep safely and smoothly maintain office records & environment.

Public Administration is one of the youngest branches of Faculty of Huma--nities. With the expansion of the activities of modern state, public administration has assumed great significance in modern society. The course is introduced to compre-hend the importance of organizations. as well as line and staff agencies and Chief Exhalative etc. Administrative Organization and its principles is an important part of public administration. The focus of the course is on the Hierarchy, Span of control,

technology in service delivery.

PSO33.To understands how to use of E-Governance in various administrative departments.

PSO34.To knows the application of E-Governance and various issues.

PSO35. The Course would introduce and Provide Knowledge of E-Administration to the students.

PSO36.To familiarizes the students with the concept of E-Administration.

PSO37.It will acquaint the students the way ICT (Information and Communication Technology) would be applied on Administration.

PSO38. It would help the students understand the need & significance of e-devices in Public administration

PSO39. To Understand the importance of Budget.

PSO40. To provide basic Knowledge of Financial Administration.

PSO41. To Understand the Indian Budgetary process.

PSO42. To Familiarize the students with basic Knowledge of Budget and Financial Administration.

PSO43. To Understand the Role of Urban Local Government in the Development of the Nation.

PSO44.To Develop a Local Leadership in urban area.

PSO45.To Understand the Role of urban local Institutions in urban development.

PSO46.To acquaint the students with the basic local governing system.

PSO47. It Introduce and Provides the students with the Knowledge of Administrative Skills.

PSO48.The students are acquainted with the work of Good Administrator

PSO49.The enhances the ability of the Students to understand the

Moral, Communication etc..

B.A. III Public Administration

Public Administration is one of the youngest branches of **Faculty** of Humanities. With the expansion of the activities of modern public state. administration has assumed great significance modern in society. Administrative Thinkers and their contribution is an important part of public administration. The main thing is to impart of Indian and knowledge western administrative theories.

Financial administration thus forms a crucial aspect of public administration. Financial machineries may be designed to promote and develop particular public policies. Government raises fund from the public to meet maintenance expenditure or the running expenses of public administration. The course focuses on the important branch of public administration.

One of the most significant development in India since independence in the field of government has been establishment of a net-work of Panchayati Raj Institutions. It is a Three tire system of governance at village, tahsil and district level. Panchayati Raj Institutions playing impartment role in social and economic development of Maharashtra state .The course will throw light on details of the formation and working of Panchayati Raj institutions and powers and responsibilities. The course covers the part which is commonly added in U.P.S.C., M.P.S.C. and other competitive exams. This course would focus on the Panchayati Raj institutions and their administration.

Disaster Management is very significant to survive in the case of a natural or a man made disaster, and can be defined as the organization and management of resources and responsibilities for dealing with all humanitarian aspects of emergencies in particular preparedness response and recovery.

Public Administration is one of the youngest branches **Faculty** Humanities. With the expansion of the activities of modern public state, administration has assumed great significance in modern society. The impact of Information Technology has given to many new trends which have all branches in public administration. Recent trends are an work of the good Administrator.

PSO50. After studying the course students will have a capacity to understand the basic Knowledge of various administrative Theories.

PSO51. The approaches of study of public administration.

PSO51. The relevance of thoughts in organizations.

PSO53. To provide basic Knowledge of financial administration.

PSO54. To Understand the Indian Budgetary process.

PSO55.To Familiarize the students with basic Knowledge of Budget and financial administration.

PSO56. After studying the course students will have a capacity to understand to Understand the Three tire system of Panchayati Raj in Maharashtra state.

PSO57. Understand to how to help to Zilla Parishad, Panchayat Samiti and Gram Panchayat improve their overall well being.

PSO58. To develop awareness of the basic Governing system to students.

PSO59. The Course Introduce and Provides Knowledge of Disaster Management

PSO60. To understand the role of various factors in Disaster Management.

PSO61. To Understand the emerging and recent trends in public administration.

PSO62. To Know the Importance of Information Technology in Public Administration.

PSO63. To introduce and provide knowledge of Right to Information Act.

PSO64. To provide basic Knowledge of various modern administrative . theories

PSO65. To Understand the Views of Human Relation theory . **PSO66.** To Familiarize the

PSO66. To Familiarize the students with basic Knowledge of

important part of public administration. The main thing is to impart knowledge of recent trends in public administration.

Public Administration is one of the youngest branches of Faculty of Humanities. With the expansion of the activities of modern state. public administration has assumed great significance in modern society. Western Administrative Thinkers and their contribution is an important part of public administration. The main thing is to impart knowledge of western administrative theories. One of the most significant development in India since independence in the field of local government has been the establishment of a net-work of Urban local Institutions. All round Development of Urban areas is done through the Urban Administration. To make Municipal Councils and Municipal Corporation strong and democratic under the 74 Amendment of Indian Constitution. The urban local Institutions playing impartment role in the development of Maharashtra state .The course will throw light on details of the formation and working of urban local institutions and powers and responsibilities. The course covers the part which is commonly added in U.P.S.C., M.P.S.C. and other competitive exams. This course would focus on the Nagar Panchayat, Municipal Council and Municipal Corporation and their administration.

The development process in a democratic form of government can only succeed when the citizens not only associate themselves with planning development programmes but also participate fully in their implementation. Citizen's participation through NGOs makes the administration responsive to the needs of the peoples. The focus of the course is on the NGOs, their functions and responsibilities.

modern

administrative thoughts.

PSO67. To Understand the Role of Urban Local Government in Development of Nation.

PSO68. Develop a Local Leadership in urban area.

PSO69. To Understand the Role of urban local Institutions in urban development.

PSO70.To develop of the basic Governing system to students.

PSO71. To Introduce and Provides Knowledge of Non Government Organization and there Administration.

PSO72. To understand the work of N.G.Os in Nation building. **PSO73.** The ability of Students to understand the Non Government organization and its works.

Courses offered:

B.A.F.Y. Public Administration, B.A.S.Y. Public Administration, B.A. T.Y. Public Administration

Sr.No.	Course	Course outcome	
01	B.A. F.Y.	CO Paper- I: Principles of Public Administration	
		It is intended that the subject is introduced, as a optional subject to the	
		students of U.G. level. The subject is introduced to comprehend the importance	
		of Administration theory and practice. as well as Public Administration and	
		private Administration, Public Private Partnership, civil society and sustainable	
		development.	
		CO Paper- II: District Administration	
		*	

- 1. It help the students Conceptualize about the developmental process as nations develop cities grow, and how planning is done & implemented in a bottom totop approach.
- 2. Awareness of the basic governing system (Urban) as well as development measures.
- 3. Exhibit the efforts for urban development in Maharashtra state.

CO Paper- III: Administrative organization and its Principle

- 1) The course will aid the students to develop their personality..
- 2) It will introduce them about the functioning of the Administrator in Public Administration.
- 3) It will make the students aware of the various issues in Public Administration.

CO Paper- IV: Indian Administration

- 1. It help the students to understand the system of Indian Administration
- 2. Awareness of the basic governing system
- 3. Exhibit the efforts for urban and Rural development in India.

02 B.A.S.Y. CO Paper- V: Personnel Administration

- 1. It will provide knowledge of Personnel Administration.
- 2. Explain the importance of human resources and their effective work in Administration
- 3. Outline the principles of recruitment and the advantages and disadvantages of Direct & Indirect Recruitment
- 4. Analyze the key issues related to Promotion, Merit & Seniority principle etc.

CO Paper- VI: Rural Local Government

- 1. Develop a rural local leadership.
- 2. Awareness of the basic governing system as well as development measures.
- 3. It will provide knowledge of Three tier system of Panchayati Raj in Maharashtra state.
- 4. Understand the role of Panchyat Raj Institutes as the main instrument of State to achieve its Rural developmental goals.

CO Paper- VII: E-Administration

- 1. The course will help to the students learn about the basic elements of E-Administration.
- 2. It will provide knowledge of E-devices in Public Administration.
- 3. Awareness of the basic E- administrative system as well as various issues in E-Administration.

CO Paper- VIII: Financial Administration

- 1. Awareness of the basic financial system as well as development measures.
- 2. Explain the importance of Budget and Financial Administration.
- 3. Analyze the various issues related to Indian Budget.
- 4. Understand the role of Finance Administration as the main source of development.

CO Paper- IX : Urban Local Government

- 1. It help the students Conceptualize about the developmental process as nations develop cities grow, and how planning is done & implemented in a bottom to- top approach.
- 2. Awareness of the basic governing system (Urban) as well as development measures.
- 3. Exhibit the efforts for urban development in Maharashtra state.

CO Paper- X: Administrative Skill

- 1. The course will aid the students to develop their personality..
- 2. It will introduce them about the functioning of the Administrator in Public Administration.
- 3. It will make the students aware of the various issues in Public Administration.

03 B.A.T.Y. CO Paper- XI: Administrative Thinkers

The students will be channelized to learn and understand various

Theories put forth by administrative thinkers regarding Public Administration
and Management. Through the narratives described in the course students will be
made acquainted with ancient theories advocated by administrative thinkers like
Kautilya about good governance and his views about eradication of corruption.

CO Paper- XII: (OR) Financial Administration

The present syllabus will help the students to study various phases of Indian budget . The students will be channelized to understand various steps of budget such as preparation, Legislation and Execution. The students will be able to demonstrate the implementation of budget and various financial machineries.

CO Paper- XIII: Rural Local Government in Maharashtra

The Content of the course will enable the students to prepare themselves for various competitive examinations such as U.P.S.C.,M.P.S.C. and other competitive examinations. The students will learn and try to understand the functioning of several democratic institutions such as Zilla Parishad, Panchayat Samiti and Gram Panchayat. Due to the course the students will be motivated to develop interest towards rural development.

- 1. Develop a rural local leadership.
- 2. Awareness of the basic governing system as well as development measures.
- 3. It will provide knowledge of Three tier system of Panchayati Raj in Maharashtra state.
- 4. Understand the role of Panchayat Raj Institutes as the main instrument of State to achieve its Rural developmental goals.

CO Paper- XIV: Disaster Management

In the recent years the branch of Disaster Management has attained unique importance. The course will teach the students the utility of the disaster management.

CO Paper- XV: Recent Trends in Public Administration

The era of Information Technology has given to many new trends which have all walks of life and administration of several offices is not an exception. The said course will help the students to understand such changes and get to it.

CO Paper- XVI: (OR) Administrative Thoughts

The students will be channelized to learn and understand various theories put forth by Modern administrative thinkers regarding public administration and management. Through the narratives described in the course students will be made acquainted with theories advocated by administrative thinkers like Elton Meyo, Abraham Maslow about Human Relations Theory.

CO Paper- XVII: Urban Local Government in Maharashtra

The utility of the course is discuss and analyze the problems created due to urbanization and suggest possible salutations about urban management and other related issues. The students will learn and try to understand the functioning of several democratic urban institutions such as Nagar panchayats, Nagar Parishad and Municipal Corporations. Due to the course the students will be motivated to develop interest towards urban development of Maharashtra state.

CO Paper- XVIII: Administration of N.G.O.

In the country like India, the role of NGO is very significant. The purpose of the
course is to make the students to analyze the work of NGOs and to inspire them
to undertake such project according to his potential and skills.

Programs offered: M. A. Geography

Sr. No.	Program	Program objective	Program Specific Objectives
110.			
	M. A. Geography	Inspire the students for pursuing higher studies in Geography and for becoming an entrepreneur and also enable students to get employed in the Geographical research Institutes, Forest Department, Metrological Department, Survey of India and Educational Institutes and in the various concerning department of State and Central Government based on subject Geography.	PSO: 01 To familiarize the students with the understanding of the society through concepts and social theory, philosophical approaches and spatial processes. PSO:02 To examine the process of social region formats in India with the help of social cultural factors. PSO:03 To Understand diversity of cultures and its diffusion. To introduce GIS (Geographic Information System) as a tool of spatial science. PSO:04 To indicate the basic elements of GIS and methodology of GIS. To outline the steps and areas of application of GIS. PSO: 05 The aim of this course is to introduce the students with the fundamentals of regional planning PSO: 06 To provide in depth knowledge about agriculture geography PSO: 07 To nurture scientific and research approach among the students

Courses offered: F.Y. M.A. and S.Y.M.A. Geography

Sr. No.	Course	Course outcome	
	F.Y. M. A.	Paper I Geomorphology	
		1. The course will provide an understanding of the conceptual	
	SEMESTE	and dynamic aspects of landform development.	
	R-I	2. Students will also learn the relevance of applied aspects of	
		Geomorphology in various fields.	
		3. Understanding crustal mobility and tectonics; with special	
		emphasis on their role in landform development	
		paper II Climatology	
		On successful completion of this course, students should be	
		able to understand the mean global atmospheric circulations	
		and disturbances, world climate systems, climatic	

	variability and change.
	• Students will learn the process of interaction between the
	atmosphere and the earth's surface.
	Paper – III Economic Geography
	• Students will become sensitized to concept and
	classification of resources, use or misuse and will learn
	conservation methods and techniques.
	• Students would be able to understand how in an
	increasingly globalized world, economic activities occur
	unevenly over geographical space; how local places and
	global economy are intertwined.
	• Assessing the importance of economic activities around the
	world. Discussing the locational factors for development of
	industries
	Paper IV Practical
	• Will be able to represent relief features of the plateaus,
	hills, foothills, valleys, plains and flood plains through
	superimposed / composite/ serial or projected profiles.
	• Determining the area, the height and making of the plan of
	the land using dumpy level and prismatic compass in the
	field Survey, Methods of Slope Analysis.
	 Conducting field excursions and preparation of field report
	on research on problem in nearby different areas.
F.Y. M.	paper V Oceanography
A.	 Describing and analyzing the concepts of Oceanography
	 Understanding the variations of global hydrological cycle
SEMESTE	• Emphasizing the significance of groundwater quality and
R-II	its circulation
	nanay VI sattlement Coography
	paper VI settlement Geography
	Understand the origin and Evaluation Settlements. Viveral above different theories arising of Terms and the original settlements.
	Know about different theories origin of Towns and Lithographican
	Urbanization
	• Demonstrate an understanding of the concept, principles and theories in the field of Urban Geography.
	• Identify and explain the patterns of urbanization in developed and developing countries.
	Paper VIIPolitical Geography
	• Emphasizing the significance of different political systems.
	 Analyzing different political ideologies, Developing an
	understanding of geopolitics,
	 Global geostrategic views and functioning of political
	systems.
	• Student will understand the history and development of
	political geography
	Paper VIII PRACTICAL-II
	• Conducting field excursions and preparation of field report
	on research on problem in different areas of India.
	 Using statistical techniques in order to summarize,
	- Come outlined techniques in order to summarize,

	represent, analyze and interpret data
M.A.S.Y SEMESTE R-III	 Paper IXGeography of regional planning Analyzing the concept of regions and regionalization. Studying the indicators of economic development
	 Paper X Biogeography Introducing ecosystem and biosphere concepts. Analyzing the importance and role of biogeochemical cycles. Learn about concept and relevance of biogeography, ecosystem and ecology responsible for global trend of distribution of major plants and animals. Learn about bio diversity, types of bio diversity, role of human in ecological disturbances and conservation issues. Paper XI Agricultural Geography To introduce students Agricultural activities and its relation with Geography. To familiarize the students with new modern technical methods and their applications in Agricultural activities. To enable students to apply Previously knowledge in Problems and Prospects in agriculture Paper XII Practical in Human Geography The practical use of this paper is that students are able to show different objectives like population growth,
	 population distribution, density etc on maps. So that the student can develop knowledge regarding different mapping procedure like choropleth, thematic mapping etc.
M.A.S.Y SEMESTE R-IV	 Paper XIII Population Geography Identifying habitable parts of the world and different global population dynamics. Understand the distribution of population. Population distribution and its problems. Students aware about the population policies Paper XIV Social and Cultural Geography Explaining the concept and dynamics of human society. Analyzing the unity in the vast cultural background of
	Establishing the correlations between man and his natural and cultural landscape Paper XV Geography of Maharashtra
	 Understand the location of physiographic, natural, historical and political of Maharashtra. Understand the geographical area and administrative division of Maharashtra. To understand the major rivers and dams of Maharashtra. To understand the climate, soils, and natural vegetation's.

D WYTD (* 1. D. 11 1 0 D)
Paper XVI Practical in Field work & Remote sensing.
 Students can acquire a broad knowledge regarding remote sensing, various sensors and can developed idea about aerial photographs, satellite imagery etc. Students will acquire knowledge regarding the use of modern tools and technology like GIS in geographical studies and can apply this knowledge in any field of study. Training in the use. Geographic Information System (GIS) software's for contemporary mapping skills. Student demonstrate their knowledge of physical geography, the methods and techniques for observing, measuring recording and reporting geographical phenomenon. Student will be familiar with modern techniques in geography .Student will be prepared the apply their skill in professional careers. They understand about Aerial photography and Satellite
Remote Sensing
Paper XVIIProject work
This paper is a field based paper where students developed their field based knowledge and become able to tackle or face any problem while conducting a research project. Overall this paper gives research based knowledge

Faculty of Science

Department Profile Chemistry Programs offered: B.Sc. Chemistry

Sr. No.	Program	Program objective	Program Specific Objectives
01	B.Sc. Chemistry		 B. Sc. Chemistry syllabus has been framed as per UGC-CBCS pattern. The students are expected to understand the fundamentals, principles, mathematical concepts and recent developments in the subject area. The students are able to know the elements present in nature & its properties. The practical course is in relevance to the theory courses to improve the understanding of concepts in chemistry. It would help in development of practical skills of the students. It is expected to inspire the students towards competitive exams in chemistry

Courses offered: 1) F.Y. B.Sc. Chemistry , S.Y. B.Sc. Chemistry and T.Y. B.Sc. Chemistry

Sr.	Course	Course outcome
No.		
01	B.Sc. F.Y.	CCC-I (Section A), P-I:Organic + Inorganic Chemistry
		After completion of syllabus students will be able to understand
		following outcomes.
		1. Learning and understanding rules of logarithm, Rules of drawing
		graph, Derivatives, Integration, different mathematical concept
		and SI units, and their use in solving numerical.
		2. Learning surface phenomena at heterogeneous surfaces.
		3. Student will learn the basic knowledge of gas phase, Kinetic
		molecular theory, critical phenomenon, liquefaction and
		molecular velocities.

		4. To import Impoveled as about solid phase, amortally areaby, and some
		4. To impart knowledge about solid phase, crystallography and some crystal structure.
		5. General characteristics of s-block elements, oxides, hydroxide,
		carbonate & its complexes
		6. Study the oxidation and reduction by different methods.
02	B.Sc. F.Y.	CCC- I (Section B), P-II: Physical + Inorganic Chemistry
02	D.SC. T.1.	After completion of syllabus students will be able to understand
		following outcomes.
		1. Learning and understanding rules of logarithm, Rules of drawing
		graph, Derivatives, Integration, different mathematical concept
		and SI units, and their use in solving numerical.
		2. Learning surface phenomena at heterogeneous surfaces.
		3. Student will learn the basic knowledge of gas phase, Kinetic
		molecular theory, critical phenomenon, liquefaction and molecular velocities.
		4. To impart knowledge about solid phase, crystallography and some
		crystal structure.
		5. General characteristics of s-block elements, oxides, hydroxide,
		carbonate & its complexes
		6. Study the oxidation and reduction by different methods.
03	B.Sc. F.Y.	CCC II (Section A) P-III: Organic + Inorganic Chemistry
		After completion of syllabus students will be able to understand
		following outcomes.
		1. Student should learn the concept of aromatic hydrocarbons,
		Aromaticity and antiaromaticity.
		2. Student should understand the phenols and synthesis of phenols
		3. Student knows about the haloalkene and haloarenes compounds.
		4. To know the concepts of carboxylic acids and their derivatives.
		5. To know about the types of alcohols and reaction of epoxide.
		6. To study the different properties of P- block elements.
0.4	DC EV	7. To know the acids & Bases by different concepts.
04	B.Sc. F.Y.	CCC- II (Section B), P-II: Physical + Inorganic Chemistry
		After completion of syllabus students will be able to understand following outcomes.
		1. To impart knowledge of atomic structure, different theories of
		atomic structure, rules of electronic configuration and quantum
		numbers.
		2. Learning of properties of liquid phase as surface tension,
		Viscosity and parachor.
		3. Student will learn the basic knowledge of colloidal state, types,
		preparation, properties and applications of colloidal state.
		4. Learning and understanding of catalysis, types of catalysis and
		characteristics of catalyzed reactions.
		5. To understanding the chemical bond and its different types of
		bonds.
		6. Learning the Concept of hybridization and study of VSEPR &
		Molecular Orbital theory.
05		CCCP-1 Paper V (Practical): Practical's based on Section A
		& Section B of CCC-I &CCCC- II
		After completion of syllabus students will be able to understand

		following outcomes.
		1. To impart knowledge of basic of chemistry practical.
		2. Learning of inorganic qualitative analysis
		3. Student will learn the basic knowledge of organic preparation
		and their method of preparation.
		4. Learning and understanding of Surface tension, Viscosity,
		Hardness.
		5. To understanding the basics of acid base titration.
		6. Learning the Concept of equivalent and molecular weight and
		their determination.
06	B.SC. S. Y.	CCC III (Section A) P-VI: Organic + Inorganic Chemistry
		After completion of syllabus students will be able to understand
		following outcomes.
		1. Learn the mechanism of name reactions.
		2. Know the Synthesis and Reactions of Aromatic Carboxylic and
		Sulphonic acids.
		3. Know the Synthesis and Reactions of Organometallic
		compounds.
		4. Learn the synthesis, mechanism, applications of active
		methylene compounds.
		5. Gathering basic knowledge of Oils, Fats, Soaps and Detergents.
		6. Understand the basic principle and application of Qualitative
		Analysis.
		7. Know the Classification, Properties of Non- aqueous solvents.
07	B.SC. S. Y.	· · · · · · · · · · · · · · · · · · ·
07	D.SC. S. 1.	CCC III (Section B) P-VII: Physical + Inorganic Chemistry After completion of syllabus students will be able to understand
		After completion of syllabus students will be able to understand following outcomes.
		1. After completion of these courses students should be able to,
		2. Write an expression of Davisson-Germer experiment.
		3. Derive Schrodinger wave equation.
		4. Understand De-Broglie's hypothesis and uncertainty principle.
		5. Solve the numerical problems based on De-Broglie.
		6. Understand concept of entropy.
		7. Understand statements of first, second and third law of
		thermodynamics.
		8. Know the meaning of phase, component and degree of freedom.
		9. Know the nuclear structure & different energy of nuclear.
		10. Understand the different steps & procedure in the gravimetric
		separation method.
08	B.SC. S. Y.	CCC IV (Section A) P-VIII: Organic+ Inorganic Chemistry
		After completion of syllabus students will be able to understand
		following outcomes.
		1. Learn the stereoisomerism of Chiral compounds.
		2. Know the Classification, and Reactions of carbohydrates.
		3. Know the Synthesis, and Reactions of Nitrogen Compounds.
		4. Gathering applications of Reagents in Organic Synthesis.
		5. Understand the Characteristics of d-Block Elements.
		6. Know the Characteristics of d-Block Elements.
09	B.SC. S. Y.	CCC IV (Section B) P-IX: Physical + Inorganic Chemistry
		After completion of syllabus students will be able to understand
	•	· · · · · · · · · · · · · · · · · · ·

		following outcomes.
		 Know the rate constant and factors affecting rate of reactions. Write an expression for rate constant (K) for first order, second
		order reaction.
		3. Know the terms cell constant, specific conductivity, equivalent conductivity and molar conductivity.
		· · · · · · · · · · · · · · · · · · ·
		4. Know the applications of Kohlrausch's law.
		5. Compare between thermal and photochemical reactions.
		6. Discuss different types of photochemical process.
		7. Know the preparation, properties, structure & application of
		different compounds.
		8. Discuss different inter halogen compounds by preparation,
		properties, structure and uses.
10	B.SC. S. Y.	CCCP II (CCC III & IV, Section A) Practical based on P-VI & P-VIII
		After completion of syllabus students will be able to understand
		following outcomes
		1. Learn basics of thin layer chromatography and distillation.
		2. Learn fundamentals of organic qualitative analysis.
		3. Learn about organic estimations.
		4. Basics of volumetric analysis.
11	B.SC. S. Y.	CCCP III (CCC III & IV, Section B) Practical based on P-VII
		& P-IX
		After completion of this course students should be able to,
		1. Calculate normality and strength of the solution using
		potentiometer and conductivity meter.
		2. Find pk _a value on pH meter.
		3. Verify Lamberts-Beer's law colorimetrically and determine
		unknown concentration of the solution.
		4. Determine energy of activation.
		5. Determine heat of solution.
		6. Study the effect of solute on CST of phenol-water system.
		7. Determine the enthalpy of ionization of weak acid / weak base.
		8. Determine partition coefficient.
		9. Separations of elements from each other & analysis by
		volumetric method.
12	B.Sc. T.Y.	DSEC- V (Section A) Organic + Inorganic Chemistry (P-XII)
		After completion of this course students should be able to,
		1. Learn the mechanism of Electrophilic Substitution reaction of
		Heterocyclic Compounds
		2. Know the characteristics, Classification and synthesis of Drugs
		and Dyes
		3. Explaining theories of Color and chemical constitution of Dyes
		4. Gathering basic knowledge of Alkaloids, Vitamins and
		Pesticides
		5. Understand the basic principle and application of coordination
		complexes
		6. Know the application of elements in Medicine
13	B.Sc. T.Y.	DSEC- V (Section B) Physical + Inorganic Chemistry (P-XIII)
		Understand the concepts of molecular Spectroscopy and its
	1	1

	<u> </u>	11. (1
		applications
		1. Analyze Rotational, Vibrational and Raman Spectra
		2. Interpret the theoretical and experimental methods of chemical
		kinetics
		3. Know the theory and application of Distribution law
		4. Explain the Nomenclature, classification and application of
		Organometallic Compounds
		5. Illustrate the classification and application of Metal Carbonyls
14	B.Sc. T.Y.	DSEC-VI (Section A) Organic & Inorganic Chemistry (P-XIV)
		After completion of syllabus students will be able to understand
		following outcomes.
		1. To learn the basic principle and terms used in UV, IR & NMR
		Spectroscopy
		2. Acquire the fundamental knowledge of classification and
		Synthesis of Amino Acid and Peptides
		3. Describe the types of Rearrangement
		4. Postulates and limitations of VBT and CFT
		5. Calculation of CFSE for Tetrahedral and Octahedral Complexes
		6. Explain the types of electronic transition and selection rule
		7. Apply spectroscopic techniques in analyzing the structure of
		simple organic Molecules
15	B.Sc. T.Y.	DSEC-VI (Section B) Physical & Inorganic Chemistry (P-XV)
		After completion of syllabus students will be able to understand
		following outcomes
		1. Basic concepts of electrochemistry and its applications
		2. Understanding the Nernst heat theorem and the
		Thermodynamics open system
		3. Know the Vant-Hoff's Reaction isochore and numerical on it
		4. Explain the types of magnetic substances and effect of
		temperature on it
		5. Biological role of alkali and alkaline earth metal ions
1.6	D.C. TOW	6. Describe the structures and functions of Metal Cluster
16	B.Sc. T.Y.	DSEC V & VI (Section-A) Organic + Inorganic Chemistry (P-
		XVI)
		After completion of syllabus students will be able to understand
		following outcomes
		1. By considering the scope of chemistry in different
		pharmaceuticals to make trained man power in synthetic
		chemistry and analysis
		2. Understanding organic qualitative analysis
		3. Separation of binary organic mixture
		4. To know the calculation of theoretical and practical yield
17	D Co T V	5. To know the gravimatric estimation DSEC V & VI (Section P) Physical Inorganic Chamistry (P)
17	B.Sc. T.Y.	DSEC V & VI (Section-B) Physical + Inorganic Chemistry (P-
		XVII) After completion of syllabus students will be able to understand
		following outcomes
		1. Determine the normality and strength of oxalic acid
		conductometrically
		2. Determine the equivalent conductance of a strong electrolyte at
	i e	1 2. Determine the equivalent conductance of a strong electrolyte at

		several concentrations			
		3. Determine the normality and strength of acids in mixture			
		4. Determination of dissociation constant of an organic acid			
		5. Determine the rate constant of the reaction			
		6. Determine energy of activation			
		7. Inorganic preparations and estimation of metal ion			
18	Certificate	After completion of syllabus students will be able to understand			
	Course in	following outcomes			
	Purification and	1. Application of Analytical techniques used in chemistry.			
	Separation				
	Techniques In	2. Different Chemical and Physical method of analysis			
	Chemistry	3. Use of Spectroscopic method in analysis and purification			
		4. Use of thermal method for analysis.			
		5. Application of electrochemical method for analysis			

Department of Zoology

Programs offered: B.Sc. Zoology, 2019-2020

Sr. No.	Program	Program objective	Program Specific Objectives
	B.Sc. Zoology	Inspire the students for pursuing higher studies in Zoology and for becoming an entrepreneur and also enable students to get employed in the Biological research Institutes Industries, Educational Institutes and in the various concerning department of State and Central Government based on subject Zoology.	PSO1. To provide through knowledge about various animal sciences from primitive to highly evolved animal groups. PSO2. To make the students aware of applications of Zoology subject in various Industries. PSO3. To highlight the potential of various branches to become an entrepreneur. PSO4. To equip the students with skills related to laboratory as well as field based studies PSO5. To make the students aware about conservation and sustainable use of Biodiversity. PSO6. To inculcate interest and foundation for further studies in Zoology. PSO7. To address the socioeconomical challenges related to animal sciences. PSO8. To facilitate students for taking up and shaping a successful career in Zoology.
1			

Courses offered: F.Y.B.Sc. Zoology, S.Y.B.Sc. Zoology and T.Y.B.Sc. Zoology

Sr. No.	Course	Course outcome
110.	B.Sc. F.Y.	CO Paper- I: Biodiversity of Invertebrates
	21201111	1. The student will be able to identify a given invertebrate upto
		class level.
		2. Ability to understand the contribution of Invertebrates in the
		biodiversity index of any given habitat.
		3. Ability to understand and appreciate the ecological and
		economic importance of invertebrates and vertebrates.
		4. Ability to identify and describe external morphology and internal
		anatomical features of representative invertebrate species.
		CO paper II: Biodiversity of Chordates
		1. The student will be able to identify and understand the
		Biodiversity of Chordates.
		2. Ability to understand anatomical relation between different
		vertebrate classes.
		3. The learner will be able to understand the economic importance
		of Chordates.
		CO Paper – III. Comparative Anatomy of Vertebrates
		1. The student will be able to identify and understand comparative
		anatomical structure of vertebrate organ systems.
		2. The learner will be able to understand the evolution of various
		organs and systems in the vertebrate body according to its
		environment.
		3. Understand the plasticity of organ systems to adapt to the environment and acquire different novel forms.
		CO Paper IV. Developmental Biology of Vertebrates
		1. The student will be able to explain the basics processes of
		vertebrate embryonic development.
		2. Ability to describe the various steps in vertebrate development.
		3. Identify and explain about the different embryonic structures.
		4. Describe the functions of different extra-embryonic structures.
		5. Understanding of the Assisted Reproductive Technologies.
		CO Paper V (Practical):Biodiversity of Invertebrates and
		Chordates & Comparative Anatomy and Developmental
		Biology of Vertebrates(Based on P-I,II,III&IV)
		1. Ability to understand the anatomical organization of organs and
		systems in representative species.
		2. Ability to identify and describe structure and functions of
		different body parts of invertebrates and vertebrates.
		3. Students would be able to prepare temporary and permanent
		mountings of biological material.
		4. Students would be able to relate different bones and be able to
		articulate them to form an skeleton.

	5. Students would make observations of organisms in their natural
	environment and document them.
B.SC. S. Y	On successful completion of the course, the students will be able to 1. Monitor their blood pressure and identify blood groups. 2. Understand function and types of heart & circulatory system. 3. Appreciate the basic function of kidney, main function of nerves. 4. Acquire knowledge on the nature and functions of hormones and learn the mechanism of hormone action. 5. Learn the structure and functions of Endocrine glands. 6. Understand the structure, development and function of
	reproductive organs in human.
	Co Paper VII Biochemistry On successful completion of the course, the students will be able to 1. Understand the chemical structure and functions of various biomolecules 2. Learn the signaling of biomolecules in cell membrane. 3. Understand the correlation between metabolism of different types of biomolecules
	CO Paper – VIII Cell Biology and Genetics
	On successful completion of the course, the students will be able to 1. Understand the structure and function of the cell as the fundamentals for understanding the functioning of all living organisms. 2. Understand structures and various cellular functions associated with the macromolecules found in cells. 3. Acquire knowledge of Mendelian Genetics and its Extension. 4. Graduates will be able to explain and interpret various processes, phenomena, states and evolutionary tendencies at a biological system level.
	CO paper-IX Evolutionary Biology and Genetic Engineering
	 Understand the theories and concepts of evolution. Learn the process of evolution in animals. Understand the patterns of evolutionary changes in animals. Understand the organization and functions of genetic material in the living world. Understand the Recombinant DNA Technology.
	CO Paper X (Preactical) Physiology and Biochemistry
	 (Practical based on P-VI & VII) 1. Students able to improve the skills in microscopy, slide preparation, observations, drawings and laboratory techniques. 2. To acquaint the students with operations of the different laboratory equipment. 3. Ability to understand the detection of blood groups of humans. 4. Ability to Understand the estimation of blood cell counts, Haemoglobin content in humans.

	5. To acquaint the students with energtion of alinical procedures
	5. To acquaint the students with operation of clinical procedures
	for blood & urine analysis.
	CO Paper XI (Practial) Cell Biology, Genetics, Evolutionary
	Biology and Genetic Engineering (Practical based on P-VIII &
	IX)
	1. Students would be able to prepare temporary squash preparations
	of onion root tips for mitosis.
	2. Demonstrate the genetic traits in Man.
	3. Ability to culture Drosophila flies in the laboratory.
	4. Ability for mounting of salivary glands of Drosophila larvae.
	5. Students are able to understand the outline of Genetic
	Engineering.
	6. Ability to Learn the role of Genetic Engineering in biology.
B.Sc. T.Y.	CO Paper XII Ecology And Zoogeography
	1. Students are able to understand and appreciate the interactions of
	organisms with their environments and the consequences of these
	interactions for population, community, and ecosystem dynamics.
	2. Students are aware of the current environmental issues with an
	understanding of the basic ecological concepts involved.
	3. Students are help to study the local and geographical distribution
	and abundance of organisms (habitat niche, community, bio-
	geography).
	4. To understand the inter-relationship between individuals in
	population and communities (population ecology).
	5. To understand the study of conservation and management of
	natural resources and pollution (applied ecology).
	CO Paper XIII Pisiculture:
	1. Students will be able to exchange and circulate information,
	ideas and practical experience on all matters relating to fisheries
	and their management.
	2. Students understand with Fishery specific knowledge for
	entering PG courses or fishery industries. 2. Students, establish and maintain an appropriate Pranch and
	3. Students establish and maintain an appropriate Branch and
	Specialist section structure to meet the local, specialist and overall
	needs of fisheries interests.
	4. Students are able to start the fish farming and get employment.
	CO Paper XVI Ethology, Biometry And Bioinformatics
	1. Students will be understand different types of animal in their
	natural habitat
	2. Students will be able to find out mean of any kinds of routinely
	used items.
	3. Student will get the statistical biological methodology.
	4. Students will get the basic practical techniques of
	bioinformatics.
	5. Students will apply of bioinformatics and biological databases
	for problem solving in real-life & research

CO Paper XV Aquaculture 1. Students will know various types of aquaculture and culture
methods.
2. Students will obtain knowledge of fishery science, with a particular emphasis on the biology, assessment, and management of fish and invertebrate fisheries.
3. Students will able to create awareness about manmade hazards to aquaculture.
4. Students will know about the important species for public health.5. Students acquire knowledge of Mariculture.
6. Students will able to understand and appreciate the role of Government in aquaculture development.
CO Practical Paper- XVI -Ecology, Zoo-geography, Ethology,
Biometry and Bioinformatics
1. Skill of handling, testing and analysis of water samples.
2. Recognition and description of animal adaptations under different ecological and zoo-geographic conditions.
3. Describe animal responses to different environmental signals.
 Apply different techniques to gather analyze analyze data using a computer.
5. Browse, search and download information from online biological databases.
CO Practical Paper- {XVII (A)} Pisciculture and Aquaculture
1. Perform fish farm practices, farm management, fish
breeding & rearing.
2. Adopt appropriate fish preservation and processing
techniques for fish by-products.
3. Ability to identify and describe fish of capture and culture food fish.
1004 11011.

Department of Botany B.Sc. Programme Objectives

Sr. No.	Program	Program objective	Program Specific Objectives
1	B.Sc. Botany	Studying plant sciences prepares the student for a career working in either	PSO1. To expand and increase current knowledge about plants
		an educational institution or an industry in which can be directly involved	1
		in the research and development and Knowledge of modern and applied plant science	including agriculture, ecology, medicine, biotechnology and

	and	excellent	career	PSO4. To equip the students with
	prosp	ects.		skills related to laboratory as well as
				field based studies
				PSO5. To make the students aware
				about conservation and sustainable
				use of Biodiversity.
				PSO6. Developaptitude towards
				science and nature and also
				undertakes the fundamental and
				applied research in plant science in
				the benefit of the human and nature.
				PSO7. To interact with each other
				which impact their physical
				environment
				PSO8. To facilitate students for
				taking students for their
				career development

Courses offered: F.Y.B.Sc., S.Y.B.Scand T.Y.B.Sc. Botany

Sr.	Course	Course outcome
No.	B.Sc. F.Y.	CO Paper- I: Viruses, Bacteria, Algae, Fungi, Lichens and
2	D.SC. T.1.	Mycorrhiza
		1. to expose themselves to the diversity of life forms
		2. To make aware of Different life forms
		3. To apply ethical principles to plant science research
		4. To develop ability to identify and classify the organisms
		CO paper II: Plant Ecology, Phytogeography and
		Environmental Biology
		1. Understand the theories and concepts of Biodiversity
		2. Learn the process of Plant adaptations.
		3. Understand the principles of community ecology.
		4. Understand the concept of environmental pollution.
		5. Aware aboutbiogeo chemical cycle.
		CO Paper – III. Bryophytes, Pteridophytes, Gymnosperms &
		Paleobotany
		1. The student will be able to identify and understand different
		cryptogams
		2. The learner will be able to understand habitat and developmental
		aspects of cryptogams
		3. Understand the anatomical structures of cryptogams.
		CO Paper IV. Taxonomy of Angiosperms
		1. To expose themselves to the diversity amongst life forms.
		, ,
		2. Aware of Morphological aspects of plants.
		3. Acquire knowledge of plant classification methods.

		4. Acquire knowledge on Taxonomical principles.
		CO Paper V Practicals based on Theory papers of CCB-I&II
		1. Ability to understand the anatomical organization of
		Cryptogames
		2. Ability to identify and describe structure and functions Cell and
		cell division.
		3. Students would be able to prepare temporary and permanent
		slides.
		4. Students would be able to relate different chromosomes.
		5. Students would make observations human syndromes.
3	B.SC. S. Y.	CO Paper VI- Plant Anatomy
		On successful completion of the course, the students able
		On successful completion of the course, the students will be able to
		1. On successful completion of the course, the students will be able
		toUnderstand plant histology
		3. Learn the aspects of plant anatomy.
		Co Paper VIIPlant Physiology and Biochemistry
		Students are able to understand Different bio-physico-chemical
		phenomenon.
		2. Students aware of Major and Minor elements.
		3. Students understand Growth and Plant growth regulators
		4. To understand the inter-relationship between individuals in
		population and communities (population ecology).
		5. understand the biomolecules and secondary metabolites
		CO Paper – VIIIPlant Embryology
		On successful completion of the course, the students will be able to
		1. understand the processs of fruit and seed development
		2. aware of types of pollination
		3. Understand process of fertilization
		CO paper-IXPlant Metabolism andBiotechnology
		1. Students understand aspects of photosynthesis and respiration
		2. Students will be able to find out mean of any kinds of routinely
		used items.
		3. Student Know the role of enzymes
		4. Students get knowledge of Nitrogen metabolism
		5. Understand the basic aspects of Biotechnology.
		6. Aware of tools and techniques of Genetic engineering
		CO Paper X Practicals based on Section-A Of CCB-III&IV
		1. Students able to improve the skills in describing morphology,
		taxonomical aspects.
		2. To acquaint the students with operations of the different
		laboratory equipment.
		3. Ability to understand the anatomical differences of
		gymnosperms.
		4. Able to Understand the paleo botanical aspects.

		CO Paper XI Practicals Based on Section-B Of Ccb-III&IV
		1. Students would be able to prepare temporary Slides
		2. Understand the embryological differences among plants
		3. Ability to measure plant biomass.
		4. Ability to differentiate adaptations among plants.
		5. Students are able to understand tissues of plants
4	B.Sc. T.Y.	CO Paper XII Plant Physiology
		1. Students are able to understand Different bio-physico-chemical
		phenomenon.
		2. Students aware of Major and Minor elements.
		3. Students understand Growth and Plant growth regulators
		4. To understand the inter-relationship between individuals in
		population and communities (population ecology).
		5. understand the biomolecules and secondary metabolites
		CO Paper XIIIPlant Pathology-I
		1. Students Understand basic principles of plant pathology
		2. Students understand the process of disease development
		3. Students aware about the plant diseases caused by pathogens
		4. Students aware about controle measures of plant diseases.
		CO Paper XVI Plant Metabolism, Biochemistry and
		Biotechnology
		1. Students understand aspects of photosynthesis and respiration
		2. Students will be able to find out mean of any kinds of routinely
		used items.
		3. Student Know the role of enzymes
		4. Students get knowledge of Nitrogen metabolism
		5. Understand the basic aspects of Biotechnology.
		6. Aware of tools and techniques of Genetic engineering
		CO Paper XVPlant Pathology-II
		1. Students know Principles of aerobiology.
		2. Students will obtain knowledge on defence mechanism in plants.
		3. Students able to create awareness on plant diseases.
		4. Students get knowledge on plant disease controle.
		CO Practicals based on theory papers- XII & XIV
		1. Students learn to determine osmotic potential
		2. Study effect of light colours on photosynthesis.
		3. Students Learn different physiological experiments.
		4. Students Acquire knowledge on biotechnological skills.
		5. Students Learn qualitative tests for secondary metabolites
		CO Practicals based on theory papers- XIII & XV
		1. Students Study different laboratory equipments
		2. Students able to isolate fungal pathogen
		3. Students able to differentiate plant diseases
		4. Acquire knowledge on control measures of plant diseases
		T. Acquire knowledge on conduit measures of plant diseases

Department of Environmental Science Programs offered: B.Sc. Environmental Science

Courses offered: B.Sc. F. Y., S.Y., and T. Y., Environmental Science

Sr.	Course	Course outcome	
No.			
Processes Preamble: The content of the paper will accompany to the paper will be accompany.		Preamble: The content of the paper will acquainted to students	
structure and composition of the Earth and will explosurface processes. 01. Understand about the tectonic plates, sea floor spread		01. Understand about the tectonic plates, sea floor spreading and	
		mountain formation. 02. Have the Knowledge of composition of atmosphere and atmospheric	
		processes. 03. Get the idea of soil properties and composition. 04. Able to know the interactions of earth processes.	

	CO paper II: CCENV-I Section B : Basic Science and		
	Environment		
	This paper aims to build conceptual understanding of students by		
	exposing them to the basic principles behind various		
	environmental processes. The		
	paper has been divided into two sections, with the view to		
	introduce students to the		
	fundamental concepts of physics and chemistry of		
	environment.01. Understand the basics of Environmental Physics.		
	02. Grasp knowledge about the Basics of Environmental		
	Chemistry.		
	03. Able to know about the interrelations of atmosphere and		
	meteorological parameters.		
	04. To acquire the skill of the measurement of meteorological		
	variables.		
	CO Paper – III: Developments in Environment		
	The contents of this paper will covers the conceptual		
	understanding of		
	students by exposing them to the natural processes and		
	developments in environment.		
	1		
	The paper has been divided into Three sections, with the view to		
	introduce students to		
	the concepts of universe, earth and atmospheric movements.		
	01. Understand key concepts of Evolution of universe and		
	Biogeochemical		
	cycles.		
	02. Acquire the knowledge minerals and rocks.		
	03. Gets the detailed knowledge of different chemical reactions		
	occurring		
	in atmosphere.		
	CO Paper IV: Issues in Environment		
	The course examines the relationship between the environment		
	and social		
	issues enabling the students to understand and appreciate the role		
	played the enviro conflict		
	and society and their interface in shaping environmental		
	decisions. The students will be		
	enabled to think critically on Environmental issues.		
	01. Aware about the global Environmental issues.		
	02. Understand developmental activities and Environmental		
	problems.		
	03. Able to know impact of urbanization on Environment.		
	04. Have the knowledge of human intervention in the		
	Environment.		
	Environment.		
B.SC. S. Y.	CO Papar VI ATMOSPHEDE AND CLODAL		
D.SC. S. I.	CO Paper VI :ATMOSPHERE AND GLOBAL		

T	CV VV C PP CV L V CP		
	CLIMATE CHANGE:		
	01. Gain the knowledge of structure and composition of the		
	Atmosphere and its various processes.		
	02. Understand various Meteorological parameters and their		
	measurement methods.		
	03. Acquire knowledge about climate change issue in context		
	with its phenomenon, causes, effects and control measures.		
	04. Understand the efforts taken at international level to cope with		
	the issue of climate change by adopting several protocol /		
	agreements.		
	CO Paper VII: WATER AND FRESH WATER RESOURCES:		
	01. Acquire knowledge about the water resources with its sources		
	<u> </u>		
	and types.		
	02. Gain knowledge regarding the physico-chemical properties of		
	water		
	03. Understand the importance of water resources in overall		
	development process.		
	04. Understand the water conservation methods.		
	CO Paper - VIII: ENVIRONMENTAL POLLUTION AND		
	HUMAN HEALTH:		
	01. Acquire the scientific knowledge about the various		
	Environmental pollution.		
	02. Understand the effect of Environmental pollution on human		
	health.		
	03. Ability to develop mitigation measures to combat		
	with the challenge of Environmental pollution		
	CO Paper-IXNATURAL RESOURCE MANAGEMENT:		
	01. Acquire knowledge about the various natural resources, their		
	uses and management.		
	02. Understand the importance of resource management to		
	achieve the goals of sustainability.		
	03. Application of resource management practices for planning		
	and decision making.		
	04. Provide opportunity to think on linkage between resources in		
B.Sc. T.Y.	environment and process of development CO Paper XII		
D.SC. 1.1.			
	Water pollution and Waste water Analysis To understand spiritific reasons of point and non-point source of		
	To understand scientific reasons of point and non point source of		
	water pollutants which enable to give correct suggestions for		
	proper treatment.		
	Students will come to know that		
	01. Various sources of water and waste water.		
	02. It's quality through physico – chemical and biological		
	characters		
	CO Paper XIV		
	Environmental education and biodiversity.		

	Environmental education for better understanding and upliftment of biodiversity and natural resources. The outcome of this paper is To understand the goals and objectives of Environmental Education., to understand the importance of Biodiversity and natural resources CO Paper - XVI Waste Water Engineering To give the proper treatment on the basis of load of waste water. Students will understand 01. The scientific process of treatment of waste water. 02. To know the load of waste water for appropriate primary / secondary / tertiary treatment CO Paper - XVIII]: Environmental Management To understand various movements of environmental protection management through software tools and environmental laws. Students will understand the principles of environmental management and various historical movements in environmental protection. And various laws and legislations of environmental protection
	protection
SKILL EI	NHANCEMENT COURCES B.Sc.II and III YEAR
1. Skill	CCENV-I (A) Soil Testing Analyst
Enhancement Course	The main objective of the course is to provide the student with a formalized way to build their fundamental knowledge and skills within the different areas of soil science to enhance their professional skills testing or similar topics that provide information about soil Soil testing analyst works like laboratory technician, who is responsible for collecting and analyzing soil samples to determine whether the soil is suitable for agricultural practices, gardening or plantation or natural uses.
2. Skill	CCENV II (Section B)
Enhancement Course	Composting from Solid Waste The main objective of course is to improve the awareness and skills of the students with modern techniques of collections, transportations and analysis of solid waste materials for production of organic manure and research activities. Soil testing analyst will able to Use of instruments and their general maintenance, interpretation of analytical data and formulation of reports/recommendations
3.Skill	DECENV III Paper - XV
Enhancement Course	Soil conservation Practices The main objective of the course is to imbibe the importance of soil and its development.
	Student will acquire the soil management skill, will know how to

	check the nutrient contents, deficiencies and its impact on food		
4.Skill	DECENVP- IV Paper - XXII		
Enhancement	Training course on waste water Analysis		
Course	The main objective of the course is to make students aware and		
	expert in handling waste water its analysis and use of various		
	techniques and instruments.		
	This course is designed to train students to safely and effectively		
	operate advanced wastewater treatment plants in future		

Department of Microbiology

Programs offered: B.Sc. Microbiology

Sr. No.	Program	Program objective	Program Specific Objectives	
	B.Sc. Microbiology	Inspire the students for pursuing higher studies in Microbiology and for becoming an entrepreneur and also enable students to get employed in the Biological research Institutes Industries, Educational Institutes, Pharma industry, Pathology labs and in the various concerning department of State and Central Government based on subject Microiology.	PSO1. To provide through knowledge about various microbial diseases and their effects on humans. PSO2. To make the students aware of applications of Microbiology subject in various pharma Industries, pathological labs. PSO3. To highlight the potential of various branches of Microbiology to become an entrepreneur. PSO4. To equip the students with skills related to laboratory as well as field based studies in the field of microbiology. PSO5. To make the students aware about different useful microorganisms. PSO6. To inculcate interest and foundation for further studies in Microbiology. PSO7. To address the socioeconomical challenges related to	

		PSO8. To facilitate students for taking up and shaping a successful career in Microbiology.	

$Courses\ offered;\ F.Y.B.Sc.\ Microbiology,\ S.Y.B.Sc.\ .\ Microbiology\ and\ T.Y.B.Sc.\ .$ Microbiology

Sr. No.	Course	Course outcome	
110.	B.Sc. F.Y.	CO Paper-I: Introductory Microbiology	
		1. To study scope of microbiology.	
		2. To study development of microbiology.	
		3. Characteristics of microorganisms.	
		CO Paper- II: Fundamentals of Microbiology	
		1. The student will be able to identify Bacterial cell with the help of	
		microscope.	
		2. Ability to understand the Bacterial cells with structure and	
		function.	
		3. Ability to understand sterilization techniques.	
		4. To understand microbial growth factor.	
		CO paper III: Basic Microbiology & Biomolecules	
		1. The student will be able to study microbial staining technique.	
		2. Ability to understand structure of viruses.	
		3. To study the different biomolecules.	
		CO Paper IV. Microbial Physiology	
		1. The student will be able to study culture media.	
	2. Ability to understand reproduction and		
		microorganisms	
		CO Paper V (Practical): Annual Practical's based on Section	
		A & Section B of CCMB	
		I & CCMB II (PV)	
		1. Ability to understand the Principle of autoclave, hot air ovan,	
		Laminar air flow etc.	
		2. Ability to stains of different culture medium.	
		3. Students would be able to Preparation of culture media	
		4. Students would be able to learn isolation technique.	
	B.SC. S. Y. CO Paper VI- APPLIED MICROBIOLOGY		
	On successful completion of the course, the students will		
1. Sources and scope of microorganisms.		1. Sources and scope of microorganisms.	
2. Microbial examination of water.		2. Microbial examination of water.	

	3. Microbiology of sewage water.
	Co Paper VII IMMUNOLOGY
	On successful completion of the course, the students will be able to
	1. Types of infections, sources of infection, modes of
	transmission, Microbial pathogenicity, Aggressive factors of
	pathogens
	2. General properties of antigen, antigen specificity, bacterial
	antigens.
	3. Antigen antibody reactions.
	CO Paper – VIII Food, Soil Microbiology and Microbial
	Ecology On averageful completion of the course, the students will be able to
	On successful completion of the course, the students will be able to
	1. Sources of contamination in food, Factors affecting kind
	and number of microorganisms in food.
	2. signification of microorganisms in soil, soil
	as culture medium.
	3. Microbial interaction, association and ecology.
	CO paper-IX Medical Microbiology
	1. Students can understand Pathogenesis, Clinical features,
	laboratory diagnosis, epidemiology, treatment of cholera, typhoid
	etc.
	2. Students can understand different infections.
	CO Paper X (Preactical) Practical Paper: CCMBP II [CCMB
	III & IV (Section A)]
	1. Students able to Bacteriological examination of air by solid
	impingement techniques.
	2. Students able to Bacteriological examination of water:
	Quantitative analysis: MPN method
	3. Ability to understand the Bacteriological examination of food by
	SPC method
	CO Paper XI (Practial) Practical Paper: CCMBP III [CCMB
	III & IV (Section B)]
	1. Students would be able to Blood staining by Leishman's /
	Giemasa's method.
	2. Metachromatic granule staining (Albert's Method)
	3. Ability to RBC counting.
	4. Ability to WBC counting.
B.Sc. T.Y.	CO Paper XII Microbial Genetics DSEMB I (Section A)]
	1. Students are able to understand Evidences for DNA as genetic
	material.
	2. Students are understand General Concepts of DNA Replication.
	3. Students are help to study Genetic Recombination
	4.To understand Conjugation and transduction.
	CO Paper XIII Microbial Metabolism DSEMB I (Section B I)
	1. Students will be able to study Physicochemical properties of

enzymes.			
2. Students understand Role of nucleotides in metabolism.			
3. Students are able to study Respiratory electron transport chain is			
bacteria.			
CO Paper XIV:Molecular Biology DSEMB II (Section A)			
1. Students will be understand Gene expressions.			
2. Students will be understand DNA repair.			
3. Student will understand gene regulation			
CO Paper XV:Industrial Microbiology DSEMB II (Section B I)			
1. Students will know various types of industrial microbiology.			
2. Students will learn different types of Screening techniques.			
3. Students will able perform different types of purification			
tecniques			

Department of Physics

Departin	icht of	I II y	3103
Programs	offered:	B.Sc.	Physics

	career in Physics.

Courses offered:

F.Y.B.Sc. Physics, S.Y.B.Sc.Physics, T.Y.B.Sc. Physics

Sr.	Course	Course outcome	
No.			
NO.	B.Sc. F.Y.	CO Paper- I: Mechanics and properties of matte 1. Students will be introduced to the world of mechanics and properties of the matter that exists in different phases i.e., solid, liquid and gas. 2. Laws of motion and its applications to various systems studied in this paper is of fundamental nature and enable the students to handle different types of problems and is the pre-requisite for several other advanced courses in physics and chemistry. 3. The pre-requisite for this course is knowledge of calculus, wave theory and modern physics. This course is the core course and every student pursuing B Sc with physics as one of the optional is	
		required to study this course.	
		CO paper II: Mathematical Methods in Physics 1. This course helps to develop knowledge in mathematical physics and its applications, to develop expertise in mathematical methods required in the study of Physics, to develop critical thinking and problem solving skill. 2. After completion of this course students will be able to apply the concept of vectors and complex variables to various physical quantities. 3. This course will also enable the students to solve the problems related to partial differentiation. 4. Fourier Analysis unit will enable the students to analyze the periodic functions	
		1. This course will introduce the students to the world of heat and thermodynamics and the behaviour of the physical systems at different thermodynamical conditions. 2. After completing this course students will understand the difference in the behaviour of the ideal and real gases, transport phenomenon in gases. 3. Students will also understand the working of various heat engines and the ways to increase their working efficiency.	
		1. The students will be able to understand the concepts of static and dynamical electrical magnetic fields, the sources for generating such fields, polarization and induction effects, understand the basic difference between the DC and AC circuits and their functioning. 2. This course is of most applied nature and will enable the	

	students to understand the role of electricity in everyday life, relate electrical conduction, relate using Ohm's law and will also enable the students to understand the working principles of various electrical components and gadgets.
B.SC. S. Y.	CO Paper V (Practical): Laboratory Course 1. This Laboratory course introduces the students to the practical applications of the four core courses in Physics that the students have studied in Semester I and II. 2. The students will be able to perform simple experiments like finding Young's modulus, modulus of rigidity, surface tension, co-efficient of viscosity, etc. 3. The Laboratory course also includes experiments based on the computational methods applicable for solving problems in physical situations. 4. The course will consist of lectures (both theory and practical) in the Computer Lab. 5. Evaluation of the computational method does not include the programming skill of the students but will only analyze the basis of formulating the problem. CO Paper VI- Waves and Oscillations 1. The students will be able to understand the concepts of mechanical waves, their properties, propagation and reflection properties, formation of standing waves, their applications in resonance tubes, energy distribution in the standing waves, free and forced vibrations, acoustics and acoustical designs and also introduces the students to the concepts of ultrasonic waves and their applications. 2. This course is the pre-requisite for several advanced courses in physics and chemistry and is necessary for understanding
	the behavior of the mater when mechanical waves passes through them. 3. Pre-requisite for this course is the knowledge of elementary mathematics and calculus, wave theory, etc. This forms the core course of the programmes and every student pursuing B Sc with physics as one of the optional is required to study this course
	Co Paper VII– Statistical Physics, Electromagnetics and theory of Relativity 1. The students will be able to understand the concepts of macroscopic world, statistical approaches for understanding properties of the macroscopic bodies, ensembles, their classification on the basic of macroscopic and microscopic basis, their applications to photonic and electronic gases, electromagnetism, Maxwell's equations and their applications in the electromagnetic waves, energy carried

by the EM waves and theory of relativity. 2. This course is the prerequisite for several advanced courses in physics, chemistry, life sciences and the modern communication systems. 3. Pre-requisite for this course is the knowledge of elementary mathematics and calculus. 4. This forms the core course of the programmes and every student pursuing B Sc with physics as one of the optional is required to study this course. **CO Paper – VIII– Optics and Lasers** 1. This course is aimed to introduce the students to important core subject optics and its applications. The students will be able to understand the concepts of geometrical optics, properties of optical instruments, interference diffraction of light, polarization of light and finally introduces to the advanced source like LASERS and conditions for the lasing action. 2. This course is the advanced course having applications in nearly all the branches of science. 3. Pre-requisite for this course is the knowledge of light waves and their properties in different media and requires the knowledge of EM waves. 4. This forms the core course of the programmes and every student pursuing B Sc with physics as one of the optional is required to study this course. CO paper-IX- Basic Electronics After completing this course students will be able to 1. Identify and understand construction and properties of different types of P-N junction diodes 2. Apply knowledge of semiconductor devices to use them in different combinations to see their applications as amplifiers and oscillators 3. Design different circuits using semiconductor devices and demonstrate their usage. CO Paper X (Practical) Laboratory Course (Practical based on P-VI & VII) 1. This Laboratory course introduces the students to the practical applications of the core courses Section A of CCP III & IV in Physics that the students have studied in Semester III and IV. 2. This laboratory course also includes experiments based on the computational methods applicable for solving problems in physical situations. 3. After completing this course students will get insight of the theory course they have undergone and will understand the

	importance and applications of the courses.		
	CO Paper XI (Practical) – Laboratory Course (Practical based		
	on P-VIII & IX)		
	 This Laboratory course introduces the students to the practical applications of the core courses Section B of CCP III & IV in Physics that the students have studied in Semester III and IV. This laboratory course also includes experiments based on the computational methods applicable for solving problems in physical situations. After completing this course students will get insight of the theory course they have undergone and will understand the importance and applications of the courses. 		
B.Sc. T.Y.	CO Paper XII - Quantum Mechanics		
B.Sc. T.T.	 This course introduces the students to the world of microscopic particles such as molecules, atoms, atomic nuclei and elementary particles, study their dynamics employing wave analogy, and also to make the connections between the rules governing the microscopic particles with that of the macroscopic bodies around us. This course is the pre-requisite for several advanced courses in physics and chemistry and is necessary for understanding the behavior of molecules, atoms and elementary particles. The pre-requisite for this course is knowledge of calculus, wave theory and modern physics. This course is the core course and every student pursuing B Sc with physics as one of the optional is required to study this course. 		
	CO Paper XIII – A – Solid State Physics		
	 This course provides fundamental knowledge of the crystallography, principles behind the formation of matter, their structure and physical properties. This course also enables the students to understand the relationship between the internal structure and various properties of matter such as periodicity, structure and bonding in solids, making these solids an attractive material for the device applications. At the end of this course, students will be able to classify the materials in different classes based on their physical, thermal, electrical, and magnetic properties. 		
	CO Paper XIV - Atomic , Molecular and Nuclear Physics		
	1. Students will be able to understand the physics of atoms, molecules and nuclei, their structures, emission of Gamma		

rays, X-rays, optical and microwave spectra from these systems, the interaction of atoms and molecules with electric and magnetic fields. 2. Students will be able to acquire adequate knowledge on the nuclear energy sources and reactions with its application in establishing nuclear reactors.	
CO Paper XV- Digital and Communication Electronics	
1. This course enables the students to understand the importance	
and interconvertibility of various number systems, principles of	
digital gates, and working principle of communication systems.	
2. After completing this course students will be in a position to	
know the working of communication systems i.e., modulators,	
demodulators, transmitters and receivers, etc.	
CO Paper XVI – (Physics Practical) – Laboratory Course	
1. The students will be able to perform different spectroscopic	
practicals like determining the resolving power, Rydberg's constant, wavelength of H α line in the hydrogen spectrum.	
constant, wavelength of Ha line in the hydrogen spectrum.	
CO Paper XVII - A – (Physics Practical) – Laboratory Course	
1. Students will be able to construct and identify the truth	
tables of various gates.	
2. Students will be able to observe modulated waves and	
demodulation on the C.R.O.	
3. Students will be able to identify the gates and build the	
circuits.	
4. Students will be able to build and study the different logic circuits	

Department Profile Electronics Programs offered: B.Sc. Electronics

Sr.	Program	Program objective	Program Specific Objectives
No.			
	B.Sc. Electronics	Inspire the students for	PSO1. To provide through
		pursuing higher studies	knowledge about various electricity
		in Electronics and for	principles
		becoming an	PSO2. To make the students aware of
		entrepreneur and also	applications of Electronics subject in
		enable students to get	various Industries.
		employed in the	PSO3. To highlight the potential of
		Electrical research	various branches to become an
		Institutes ,Industries,	entrepreneur.
		Educational Institutes	PSO4. To equip the students with
		and in the various	skills related to laboratory as well as
		concerning department	field based studies
		of State and Central	PSO5. To introduce learners to
		Government based on	fundamental concepts of electronics,
		subject Electronics.	basic components, semiconductor

	devices, digital electronics, working and uses of some indispensable laboratory instruments. PSO6. To inculcate interest and foundation for further studies in Electronics. PSO7. To address the socioeconomical challenges related to electrical sciences. PSO8. To facilitate students for taking up and shaping a successful career in Electronics.

Courses offered:

F.Y.B.Sc. Electronics, S.Y.B.Sc.Electronics ,T.Y.B.Sc. Electronics

Sr.	Course	Course outcome	
No.	B.Sc. F.Y.	CO Paper- I: Basic Electronics and Network Analysis	
	D.SC. 1 .1.	After completion of this course students will be –	
1 1		1. able to identify variety of electronic components viz. resistors,	
		inductors capacitors and their types & uses.	
		2. able to understand I-V characteristics of basic electronic	
		components.	
		3. able to apply network theorems to simplify given network.	
		4. able to distinguish between DC/AC sources, relate various	
		characteristics of sinusoidal voltage and understand use of resonant	
		circuits.	
		CO paper II: Basic Digital Electronics	
		After completion of this course students will be –	
		1. able to distinguish between analogue & digital signal/data.	
		2. able to draw logic circuit for a given Boolean expression.	
		3. able to analyse, transform, minimize Boolean expression &	
		implement it.	
		CO Paper – III. Semiconductor Devices and Electronic	
		Instruments	
		After completion of this course students will be –	
		1. able to understand I-V characteristics of various semiconductor	
		diodes.	
		2. able to understand input/output characteristics of transistor.3. able to distinguish between unregulated & regulated power	
		supply and its significance.	
		4. able to demonstrate the use of multi-meter & CRO	
		CO Paper IV. Digital Logic Circuits	
		After completion of this course students will be –	
		1. able to distinguish between JK Flipflop & JKMS Flipflop;	
		between T Flipflop & D Flipflop.	

	2. acquire the skill of using FFs for given application such as	
	register, counter etc.	
	3. able to present the use of MUX, DMUX.	
	4. able to understand the uses of ADC & DAC.	
	CO Paper V (Practical): Laboratory Course Work(Based on	
	P-I,II,III&IV)	
	1. Students will be able to identify the different components	
	like resistor, capacitor, inductor, etc.	
	2. Students will be able to distinguish between A.C. and D.C.	
	sources.	
	3. Students will be able to identify the gates and build the	
	circuits.	
	4. Students will be able to build and study the different logic	
	circuits.	
B.SC. S. Y.	CO Paper VI- Amplifiers	
	1. Knowledge of transistor biasing.	
	2. Analysis of small signal amplifier using h-parameters and	
	designing of CE amplifier.	
	3. Concept of an ideal amplifier, knowledge of IC 741 and its applications.	
	Co Paper VII- Microprocessor and Its Applications 1. Knowledge of microprocessor based systems.	
	2. Knowledge of Instruction set of 8085 and ALP skills.	
	3. Working and applications of ICs 74LS373 and Intel 8255.	
	CO Paper – VIIIOscillators and Multivibrators	
	1. Understanding of positive and negative feedback.	
	2. Knowledge of working of an oscillator.	
	3. Working principle of multivibrators and applications of IC 555	
	4. Knowledge of various time base circuits.	
	CO paper-IX- Introduction to Microcontroller Intel 8051	
	1. Knowledge of internal architecture of 8051 and function of each	
	block.	
	2. Instruction set of 8051 and ALP skills.	
	3. Knowledge of SFRs, Timers and Interrupts of 8051.	
	CO Paper X (Practical) Laboratory Course (Practical based on	
	P-VI & VIII)	
	1.Students will be able to design, build and study various	
	electronic circuits like amplifiers, oscillators, multivibrators etc.	
	CO Daman VI (Duratical) I showstown Course (Duratical based	
	CO Paper XI (Practical) Laboratory Course (Practical based	
	on P-VII & IX) 1. Students will be able to write and perform various programs	
	of microprocessor and microcontroller.	
B.Sc. T.Y.	CO Paper XII -Communication Electronics-I	
D.Sc. 1.1.	1. Will be able to understand basics of communication systems.	
	1. 11 III de dote to differentialité désies et confinituilleation systems.	

2. To understand the analog modulation techniques (Amplitude and
Frequency).
3. To understand the basics of Analog pulse modulation.
4. To study the Digital pulse modulation.
CO Paper XIIIA - Power Electronics – I
1) To introduce Thyristor family,
2) To study construction and characteristics of SCR, DIAC,
TRIAC, UJT, and
MOSFETs
3) To study different triggering techniques for SCR.
4) To study SCRs connected in series and parallel.
5) To study static equalising network and dynamic equalising
network.
CO Paper XVI - Communication Electronics-II
1.To study basics of Radio Receivers.
2. To understand the basics about the Microwaves.
3. To learn the RADAR systems
4. To Study the concepts in Mobile communication
5. To understand the optical fibres and study the optical fibre
communicationsystems.
CO Paper XV- A Power Electronics – II
1.To understand the operation of single phase half controlled and
fully controlled converters.
2) To understand working of choppers and inverters.
3) To construct & study working of some power control circuits
used in industry.

Department of Mathematics

Sr.	Course	Course outcome
No.	Course	Course outcome
01	B.Sc. F.Y.	Paper – I Differential calcus
		After successful completion of the course student will be able to
		1. Understanding concept of Limit, Continuity of Single and two variable Functions.
		2. Find the Higher order derivatives of Product of Functions
		3. Expand functions in terms of infnite series.
		4. Find Equation of Tangent, Normal and Length of Tangent,
		Normal, Sub-tangent, Sub-normal.
		5. Understanding of Mean Value Theorem concepts.
		6. Understand the concept of Partial differentiation.
		7. Use the results to solve problems.
		8. Differentiate difference between derivative of single
		variable and two variables.
02	B.Sc. F.Y.	Paper II: Algebra and Trigonometry
		After successful completion of the course student will be

	T	
		able to
		1. Add, Subtract and Multiply two Matrices.
		2. Recognize the different types of Matrices.
		3. Find the Inverse of invertible Matrices.
		4. Determine the Rank of a Matrix.
		5. Transform matrix to Row Echelon form
		6. Solve the System of Linear Equations.
		7. Find the Characteristic Roots and Characteristic Vectors
		of a Square Matrix.
		8. Check that every square matrix satisfies its own
		Characteristic Polynomial.
03	B.Sc. F.Y.	Paper III: Calculus-II (Integral Calculus)
03	D.SC. T.1.	After successful completion of the course student will be
		able to
		1. Apply method of integration to find the integral of function.
		2. Solve examples of definite integrals using Properties
		definite integrals.
		3. Find the area and volume of given shape.
		4. Understanding concept of Gamma and Beta Functions.
		5. Solve problems on Multiple Integrals.
04	B.Sc. F.Y.	Paper IV: (Geometry)
		After successful completion of the course student will be
		able to
		1. Understanding concepts on Three Dimensional Geometry.
		2. Find equations of Right lines, Planes, Spheres, Cones
		and Cylinders.
		3. Find the Direction cosines of any line under the different
		given conditions.
		4. Understand the intersection of any two or three, three
		dimensional geometrical figures.
		5. Transform the equation of a plane to the normal form.
		6. Transform equation of line from the unsymmetrical to the
		symmetrical form.
		7. Find the length of perpendicular from a point to a plane.
		8. Find the angle of intersection of two spheres.
		9. Understanding concepts of plane of contact.
05		CCCP-1 Paper V (Practical): Practical's based on Section A
03		& Section B of CCC-I &CCCC-II
		After completion of syllabus students will be able to understand
		1
		following outcomes. 1. To import knowledge of basis of shamistry practical
		1. To impart knowledge of basic of chemistry practical.
		2. Learning of inorganic qualitative analysis
		3. Student will learn the basic knowledge of organic preparation
		and their method of preparation.
		4. Learning and understanding of Surface tension, Viscosity,
		Hardness.

		5. To understanding the basics of acid base titration.
		6. Learning the Concept of equivalent and molecular weight and
		their determination.
	B.Sc. F.Y.	Paper V: (PRACTICAL PAPER)
	D.SC. T.1.	After successful completion of the course student will be
		able to
		1. Vertify associativity of matrix addition, left distributive law
		and right distributive law of matrices.
		2. Find determinant, eigen values, eigen vectors, inverse,
		powers and characteristics polynomial of a square matrix.
		3. To draw the graph of diffierent functions with the help of
		MATLAB software and related Freeware.
06	B.SC. S. Y.	Paper VI: Real Analysis-I
		Outcomes:
		After successful completion of the course student will be
		able to
		1. Understanding the basic concept of sets and their
		properties.
		2. Understanding the concept of a neighborhood of a point,
		interior points of a set, open set.
		3. Understanding concept of limit points of a set, closed set,
		closure of a set, dense set.
		4. Understanding the basic concept of sequences,
		subsequences, bounds of sequences, limit point of
		sequences, general principle of convergence, different
		types of sequences.
		5. Understanding the concept of infinite series, different
		types of series, the generalprinciple of convergence
		6. Use the results to solve some problems.
		7. Understanding the difference between different types of
		sequences, series, and comparison tests.
07	B.SC. S. Y.	
07	D.SC. S. 1.	Paper VII: Group Theory After successful completion of the course student will
		be able to
		1. Understand the concepts on an equivalence relation.
		2. Find the examples of equivalence relation.
		3. Check whether the given set, is a group for the given operation or not.
		4. Understand the general properties of groups.
		5. Solve problems on groups.
		6. Understand the concepts of the cyclic group.
		7. Use Lagrange's theorem to solve the problems in number
		theory.
		8. Form a quotient group.
		9. Find the kernel of a group homomorphism.
		7. I ma the kerner of a group homomorphism.

08	B.SC. S. Y.	Paper VIII: Ordinary Differential Equations
		After successful completion of the course student will
		be able to
		1. Understanding concept of solution of differential
		equations, order and degree.
		2. Transform the equations into variable separable form.
		3. Transform first-order non-homogeneous equation in x and
		y to homogeneous equation in x and y and solve it.
		4. Find the equations that can be resolved into components
		equation and solve it.
		5. Solve Clairaut's equation.
		6. Find the solutions when the auxiliary equations are equal,
		different, repeated, and imaginary roots.
		7. Find the solution of the exact differential equation, rules of
		finding the integrating factor.
		8. Transform non-linear equation to linear equation and
		solve it.
		9. Find the solution of linear equation with variable coefficients.
		10. Transform the equations to the homogeneous linear form.
		11. Transform the homogeneous linear equation with
		constant coefficient by changing the independent
		variable x to z
09	B.SC. S. Y.	Paper IX: Real Analysis-II
		After successful completion of the course student will
		be able to
		1. Understand the meaning of interval, subinterval, partitions,
		and their refinement.
		2. Understanding the basic concept of upper integral and
		lower integral and Riemann integral.
		3. Understanding difference between upper sum, lower sum
		and Riemann sum
		4. Acquire the idea about Riemann Integrability and
		Riemann Integration
		5. Understand various theorems associated with Riemann
		Integration
		6. Develop a knowledge about Riemann Integration and
		applies to problems
		7. Understand the meaning of improper integral.
		8. Determine convergence of improper integrals with discontinuities in their domain or infinite limits of
		integration.
		9. Develop skill in checking the convergence of improper
		integral using various tests of convergence
		10. Understanding distinguishes between convergence and
		absolute convergence of improper integral.
		11. Use comparison test with a corresponding improper
	1	11. Ose companson test with a corresponding improper

		integral with other improper integral to decide whether improper integral converge or diverge 12. Use the results to solve some problems.
10	B.SC. S. Y.	Paper X: Ring Theory After successful completion of the course student
		will be able to
		1. Understand given algebraic structure is a Ring or not.
		2. Construct the examples of ring with known examples of
		ring.
		3. Differentiate between zero-divisors and non-zero-divisors
		in a given ring.
		4. Check whether given two rings are isomorphic or not.
		5. Check whether the given ideal of a ring is a principal ideal
		or not.
		6. Understand the concepts on principal ideal ring
		7. Understand concepts on Euclidean rings.
11	B.SC. S. Y.	Paper XI: Partial Differential Equations
		After successful completion of the course student
		will be able to
		1. Classification of PDE.
		2. Solve linear as well as non-linear PDE of first and second
		order.
		3. Apply PDE techniques to predict the behavior of certain
		phenomena.
		4. Solve real problems by identifying them approximately
		from the perspective of PDE.
		5. Mathematical formation of real problem precisely.
13	B.Sc. T.Y.	6. Solve problem using boundary conditions.
13	B.Sc. 1.Y.	1) Utility of Syllabus:i) Students can verify the convergence of sequences,
		completeness compactness and connectedness of given
		metric spaces.
		ii) Students will be able to find dimensions of various vector
		spaces and by using determinant concept students can
		solve the linear equations in two, three unknowns.
		iii) Students can obtain the solutions of LPP using various
		methods.
		iv) Students can obtain equilibrium of forces and resultant
		force of forces.
		v) Students will be able to check the Analyticity of functions
		vi) Students can obtain Numerical solutions of differential
		equations by using numerical techniques.
		vii) Students can solve differential equations using Laplace
		transformations.
		2) Learning Objectives of Syllabus:

i) To maintain updated curriculum.
ii) To take care of fast paced development in the knowledge
of mathematics.
iii) To meet the needs and requirements of the society and to
enhance the quality and standards of Mathematics
Education.
iv) To provide multidisciplinary profile and to allow a flexible
cafeteria like approach including initiating new papers to
cater to frontier developments in the subject like
Mathematics.
v) To create confidence in others, for equipping themselves
with that part of Mathematics which is needed for various
branches of Sciences or Humanities in which they have
aptitude for higher studies and original work.
vi) Strengthening the understanding of the students and
substantiating the conceptual framework of Mathematics
for furthering their potential and capabilities in the
subject.
vii) Introducing advanced theories in the subject in an orderly
manner with a clearly defined path of interdependence.
viii) Introducing the specializations in different areas of
Mathematics and at the same time emphasizing the
underlying interconnections in different branches of
Mathematics.
ix) Generating more interest in the subject and motivating
students for self learning beyond the realm of syllabi and examinations.
x) Inculcating the spirit of inquiry among the students and
preparing them to take up the research in Mathematics.
xi) Exhibiting the wide range of applications of Mathematics
and preparing students to apply their knowledge in
diverse

Department of Computer Science: **Department of Computer Science**

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02	B.Sc. F.Y.	Paper No. II Designing of Web Pages Using HTML
		Course Objectives:
		1. Develop skills in analyzing the usability of a web site.
		2. Understand how to plan and conduct user research related to web
		usability.
		3. Learn techniques of responsive web design, including media
		Course Outcome:
		1. Be able to <i>use</i> the HTML programming language
		2. Understand the principles of creating an effective web page.
03	B.Sc. F.Y.	Paper No.III Introduction to Data Structure
		Course Objectives:
		1. To solve problems using data structures such as linear lists,
		stacks, queues, hash
		tables, binary trees, heaps, binary search trees, and graphs and
		writing programs for
		these solutions.
		2. Able to write well-structured procedure-oriented programs
		Course Outcome:
		1. To develop application using data structures.
		2. Students develop knowledge of applications of data structures
		including the ability to
		implement algorithms for the creation, insertion, deletion,
		searching etc.
04	B.Sc. F.Y.	Paper No. IV Programming in C Language
		C Obi4:
		Course Objectives:
		1. The course aims to provide exposure to problem-solving through
		<i>I.</i> The course aims to provide exposure to problem-solving through programming.
		 The course aims to provide exposure to problem-solving through programming. It aims to train the student to the basic concepts of the C-
		1. The course aims to provide exposure to problem-solving through programming.2. It aims to train the student to the basic concepts of the C-programming language.
		 The course aims to provide exposure to problem-solving through programming. It aims to train the student to the basic concepts of the <i>C</i>-programming language. Course Outcome:
		 The course aims to provide exposure to problem-solving through programming. It aims to train the student to the basic concepts of the <i>C</i>-programming language. Course Outcome: Course is designed to provide complete knowledge of <i>C</i>
		 The course aims to provide exposure to problem-solving through programming. It aims to train the student to the basic concepts of the <i>C</i>-programming language. Course Outcome: Course is designed to provide complete knowledge of <i>C</i> language to develop logics
		 The course aims to provide exposure to problem-solving through programming. It aims to train the student to the basic concepts of the C-programming language. Course Outcome: Course is designed to provide complete knowledge of C language to develop logics which will help them to create programs, applications in C.
		 The course aims to provide exposure to problem-solving through programming. It aims to train the student to the basic concepts of the C-programming language. Course Outcome: Course is designed to provide complete knowledge of C language to develop logics which will help them to create programs, applications in C. Introduces the more advanced features of the C language.
05	B.Sc. F.Y.	 The course aims to provide exposure to problem-solving through programming. It aims to train the student to the basic concepts of the C-programming language. Course Outcome: Course is designed to provide complete knowledge of C language to develop logics which will help them to create programs, applications in C. Introduces the more advanced features of the C language. Practical (Annual): Paper No.V
05	B.Sc. F.Y.	 The course aims to provide exposure to problem-solving through programming. It aims to train the student to the basic concepts of the C-programming language. Course Outcome: Course is designed to provide complete knowledge of C language to develop logics which will help them to create programs, applications in C. Introduces the more advanced features of the C language. Practical (Annual): Paper No.V Practical Based On Theory Papers – II & IV
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05	B.Sc. F.Y.	 The course aims to provide exposure to problem-solving through programming. It aims to train the student to the basic concepts of the C-programming language. Course Outcome: Course is designed to provide complete knowledge of C language to develop logics which will help them to create programs, applications in C. Introduces the more advanced features of the C language. Practical (Annual): Paper No.V Practical Based On Theory Papers – II & IV Course Objectives: To familiarize the students to the practical HTML, DHTML and JavaScript Give hands on training to the students and make them acquainted with various Real Time Applications implemented currently in the Industry Using Programming in C Language.
05	B.Sc. F.Y.	 The course aims to provide exposure to problem-solving through programming. It aims to train the student to the basic concepts of the C-programming language. Course Outcome: Course is designed to provide complete knowledge of C language to develop logics which will help them to create programs, applications in C. Introduces the more advanced features of the C language. Practical (Annual): Paper No.V Practical Based On Theory Papers – II & IV Course Objectives: To familiarize the students to the practical HTML, DHTML and JavaScript Give hands on training to the students and make them acquainted with various Real Time Applications implemented currently in the Industry Using

		affactiva web naga
		effective web page.
		2. The course is designed to provide complete knowledge of C
		language to develop
		logics which will help them to create programs,
06	B.SC. S. Y.	Paper No.VI Operating System
		Course Objectives:
		1. To learn fundamentals of Operating System,
		2. To understand the structure and organization of the file system,
		3. To learn mechanism of OS.
		Course Outcome:
		Students will be able to the basic components of a computer
07	D CC C V	Operating System.
07	B.SC. S. Y.	Paper No. VII
		Object Oriented Programming using C++
		Course Objectives:
		1. To understand how C++ improves C
		2. To learn OOPS concepts
		3. To learn how to design C++ classes for code reuse.
		Course Outcome:
		Upon compilation of this course, students will able to do
		programming independently andwill also be able to built small
		applications.
08	B.SC. S. Y.	Skill Enhancement Course-I:
	D. 50. 5. 1.	A) PROGRAMMING USING SCILAB
		OR
		B) NETWORKING CONCEPTS
		Skill Enhancement Course-I: 204 (A) PROGRAMMING USING
		SCILAB
		Course Objectives:
		To learn basic functioning in SCILAB.
		Course Outcome:
		Students will be able to understand the main features of the
		SCILAB program development
		environment, to implement simple mathematical
		functions/equations in numerical computing environment such as
		SCILAB.
09	B.SC. S. Y.	Skill Enhancement Course-I:
		204 (B) PC Installation & Networking
		Course Objectives:
		The course is designed to build practical skills in Assembling &
		maintenance of the personal
		desktop computer, installation of operating system and software's
		as well as to setup the
		network.
		Course Outcome:
		Students would have knowledge of computer hardware and

	peripherals, their installation, PC assembly, trouble shooting.
B.SC. S. Y.	Paper No. VIII Computer Networks
	Course Objectives:
	Understanding basics of computer networking, connectivity
	techniques and related protocols.
	This introduces the students to computer networks and concentrate
	on building a firm
	foundation for understanding data communication.
	Course Outcome:
	Students would be able to chose, escalate and establish a computer
	network
B.SC. S. Y.	Paper No. IX Java Programming
	Course Objectives:
	1. To learn why Java is useful for the design of desktop and web
	applications.
	2. To learn how to implement object-oriented designs with Java.
	3. To identify Java language components and how they work
	together in applications.
	Course Outcome:
	On completion of the course the student would be able to use Java
	integrated development
	environment to write, compile, run, and test simple object-oriented
	Java programs. Further,
	they would be able to make elementary modifications to Java
	programs that solve real-world
	problems.
B.SC. S. Y.	Paper No. SEC-II
	Skill Enhancement Course-II:
	(A) Introduction to Web Applications
	OR
	(B) Digital Media Concepts
	Course Code: OCS-208 [Marks: 50]
	Skill Enhancement Course-II: 208 (A) Introduction to Web
	Applications
	Course Objectives:
	The course is designed to build practical skills of development of
	web applications. Learn
	how to setup a quick and easy website with the new free Google
	sites.
	Course Outcome:
	Knowledge of website development and design specialization
B.SC. S. Y.	Skill Enhancement Course-II:
	(B) Digital Media Concepts
	Skill Enhancement Course-II: (B) Digital Media
	Course Objective:
	The course is designed to build practical skills in the creation and
	B.SC. S. Y.

		publication of digital
		technologies.
		Course Outcome:
	DCC C V	Student will be able to use essential skills for digital media
	B.SC. S. Y.	Practical: Paper No. X
		Practical's based on theory papers-VI & VII (OS and C++)
		Course Code: OCS-203 [Marks: 50]
		Course Objectives:
		1. To understand the services provided by and the design of an
		operating system.
		2. To understand the structure and organization of the file system.
		3. To understand what a process is and how processes are
		synchronized and scheduled.
		4. To understand different approaches to memory management. To
		understand
		how C++ improves C with object-oriented features.
		Course Outcome:
		Student will be able to understand the basic components of a Linux
		operating system, and the
		interactions among the various components. Further, they will be
		able to independently
		program in C++.
		Practical's based on theory papers-VI & VII (OS & C++)
		At least 20 (10 from each paper) practical exercises
12	B.Sc. T.Y.	Paper No. XII Software Engineering
12	D.Sc. 1.1.	After completion of this course students should be able to,
		1 Understand Software Engineering Process.
		2 Understand Requirements and components of Software
		Engineering.
12	D.C. T.Y.	3 Understand software design and software testing fundamentals.
13	B.Sc. T.Y.	Paper No. XIII [A] Visual Programming
		1 To learn Graphical User Interface Language.
		2 To develop an application using GUI Language.
		3 Implement VB programs to solve simple problems.
	B.Sc. T.Y.	Paper No. XIII [B] Cloud Computing
		1 To Study basics of cloud computing, and comprehend the
		terminology, tools and technologies
		associated with today's top cloud platforms.
		2 To provide the programmer's perspective of working of Cloud
		Computing.
		3 Implement Simple Cloud programs to solve simple problems.
	B.Sc. T.Y.	Skill Enhancement Course-III (SECCS-III)
		Data Mining
		1 To create awareness about self-employment and motivate the
		students to go for self-employment
		by becoming Data Analytics.
l	1	oy occoming Data Anarytics.

		2 To familiarize the students to the practical world of business data
		processing and decision
		making.
	B.Sc. T.Y.	Laboratory Course Work- IV
	D.Sc. 1.1.	Paper No. XVI
		Practical Based on theory papers – XII & XIII
		¥
		Give hands on training to the students and make them acquainted
		with various Real
		time Applications implemented currently in the Industry.
		At least 20 practical sessions based on paper no XII and XIII.
	B.Sc. T.Y.	Paper No. XIV
		Relational Database Management Systems & PL/SQL
		1 To learn Relational Database Management system and database
		languages.
		2 To learn Relational Algebra and Calculus.
		3 To study Integrity Constraints and PL/SQL
		4 To develop an application using PL/SQL.
	B.Sc. T.Y.	Paper No. XV [A] Computer System Security
		1 The Course shall introduce the Computer System Security
		Concepts and its use in the
		Information Technology industry.
		2 It also elaborates on various types of attacks and their mitigation.
		Paper No. XV [B]
		E-Commerce
		To learn Electronic Commerce market place and Internet.
		1 Understand Electronic Data Interchange.
	B.Sc. T.Y.	Skill Enhancement Course-IV (SECCS-IV)
	D.SC. 1.1.	Office Automation Tools
		1 Seek Jobs in emerging BPO/IT Support Sector.
		2 To familiarize the students in preparation of documents and
		± ±
		presentations with office automation tools. Broadly, b learning the course, the students will be able to
		perform documentation, to perform accounting operations and to
	D.C. T.Y.	perform presentation skills
	B.Sc. T.Y.	Skill Enhancement Course-IV (SECCS-IV)
		Android Programming
		1 This course shall build a platform for students to start their own
		enterprise
		2 To gain an understanding of the processes that are involved in an
		Android developed application
		3 To become familiar with Android development tools and user
		interface.
		4 Ability to build two simple apps that you can share with your
		friends
	B.Sc. T.Y.	Laboratory Course Work- V
		Paper No. XVII
L		

Give hands on training to the students and make them acquainted
with various Real
time Applications implemented currently in the Industry.