



Indira Gandhi (Sr.) College, CIDCO,
New Nanded

2.6.1 Programme Outcomes (POs). Programme Specific Outcomes (PSOs) and Course Outcomes for all courses.

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

Faculty of Arts

Department of Marathi Programs offered: B.A. Marathi

Sr. No.	Program	Program objective	Program Specific Objectives
	B.A. Marathi	<p>उच्च माध्यमिक शिक्षणानंतर विद्यार्थी महाविद्यालयीन शिक्षण घेतांना ऐश्विक मराठी हा विषय अधिक स्वरूपात ज्ञान मिळावा ही अपेक्षा असते. विद्यार्थ्यांमध्ये भाषिक 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.</p>	<p>PSO1. मराठी गद्य प्रकाराची आणि त्याच्या उपघटकांची या माध्यमातून ओळख होते.</p> <p>PSO2. कथा, कादंबरी, नाटक कविता, आत्मचरित्र या साहित्यप्रकारा मुळे विद्यार्थ्यांमध्ये संवेदना व भावना या मूल्यांची पेरणी होते.</p> <p>PSO3. व्याकरणाच्या अभ्यासातून व्यवहारात उपयोजन लक्षात येते.</p> <p>PSO4. मराठी विषय घेतलेल्या विद्यार्थ्यांना मुद्रितशोधन, अनुवाद लेखन आणि जाहिरात, बातमी यासारख्या वेगवेगळ्या क्षेत्रात काम करण्याची संधी प्राप्त होते.</p> <p>PSO5. समाजजीवनातील बारीक-सारीक गोष्टी निरीक्षणातून सर्जनशील तिची निर्मिती होते.</p>

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

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

		<p>CO Paper – III. मराठी कथात्म साहित्य</p> <p>१) चरित्र आत्मकथन कथा प्रवास वर्णन ललित गद्य या वांग्मय प्रकारातून विद्यार्थ्यांना साहित्य आणि संस्कृतीची ओळख झाली.</p> <p>२) अभ्यासक्रमातील घटकांच्या माध्यमातून महान व्यक्तिमत्त्वाचा परिचय झाला.</p> <p>३) चरित्र, आत्मकथनातून महान व्यक्तिमत्त्वाचा, अनुभूतीचा उपयोग त्यांच्या जीवनात होत असल्याचे त्यांच्या लक्षात आले.</p> <p>४) कथात्म साहित्यातील विविध लेखन प्रकारांची यानिमित्ताने विद्यार्थ्यांना माहिती झाली.</p> <p>५) मराठी कथात्म साहित्य अभ्यासताना विद्यार्थ्यांची वाचन आणि लेखन अभिरुची वृद्धिंगत झाली.</p> <p>६) साहित्याचा मानवी जीवनावर होणारा परिणाम या घटकाच्या अभ्यासातून विद्यार्थ्यांच्या लक्षात आला.</p>
		<p>CO Paper IV. मध्ययुगीन आणि आधुनिक मराठी पद्य वाङ्मय.</p> <p>१) विद्यार्थ्यांच्या भाषिक आकलनाची पूर्तता झाली.</p> <p>२) ओवी ते लावणी असा काव्याचा प्रवास समजला.</p> <p>३) मराठी कवितेच्या वैभवशाली परंपरा ची ओळख झाली.</p> <p>४) अलंकार, ओवी, मुक्तछंद, उपदेशपर कवितेची ओळख झाली</p>
	B.A. S. Y.	<p>CO Paper V निवडक मराठी गद्य</p> <p>१) मराठी गद्य साहित्याची ओळख झाली.</p> <p>२) ऐतिहासिक टप्प्यावरील बदलते गद्य अभ्यासले.</p> <p>३) मध्ययुगीन आधुनिक काळातील गद्य लेखनाचे बारकावे तपासता आले.</p> <p>४) गद्य साहित्यातील विविध लेखनप्रकार माहिती झाली.</p> <p>५) अभ्यास घटका आधारे तत्कालीन परीस्थितीवर प्रकाश टाकता आला. .</p>
		<p>CO Paper VI- मराठी नाट्यम साहित्य.</p> <p>१] आधुनिक मराठी नाटकाच्या प्रेरणा समजून घेतल्या.</p> <p>२] साठोत्तरी मराठी नाटकांचा नाटकाच्या जाणिवांचा अभ्यास केला.</p> <p>३] नाट्य प्रकारांचा जवळून अभ्यास केला.</p> <p>४] जागतिकीकरणाच्या परिप्रेक्ष्यातून मराठी नाटकांची मीमांसा केली.</p> <p>५] आधुनिक नाटकाच्या प्रवाहातील वांग्मयीन आणि रंगमंचाची मूल्यांची मीमांसा केली.</p>
		<p>Co Paper VII निवडक कादंबरी वाङ्मय .</p> <p>१] कादंबरी वाङ्मय प्रकार समजून घेतला.</p> <p>२] मराठी कादंबरी वाङ्मय कालानुक्रमे स्वरूप समजून घेतले.</p> <p>३] कादंबरी वाङ्मय लेखना नुसार विविध प्रकाराची ओळख तयार झाली.</p> <p>४] कादंबरी वाङ्मय यात विद्यार्थ्यांची अभिरुची निर्माण झाली.</p> <p>५] कादंबरी लेखनाची संरचनासूत्र लक्षात आले.</p>
		<p>CO Paper – VIII वैचारिक साहित्य</p> <p>१] वाङ्मयीन व भाषिक आकलन क्षमता वाढली.</p>

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

Department of Hindi

Programs offered: B.A.Hindi,

Sr. No.	Program	Program objective	Program Specific Objectives
	B.A.	राष्ट्रभाषा हिंदी के प्रचार	PSO I & III. हिंदी साहित्य की कहानी

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

Sr. No.	Course	Course outcome
	B.A. F.Y. Hindi	<p>CO Paper- I & III : कथा साहित्य</p> <ol style="list-style-type: none"> हिंदी साहित्य की कहानी और उपन्यास विधा से छात्रों का परिचय होगा। कथा साहित्य की लेखन भौली से परिचय होगा। छात्रों में चिंतन एवं लेखन भौली का विकास होगा। विभिन्न पात्रों की मानसिकता तथा लेखन क्रिया कलापों से

		<p>छात्रों में सही और गलत को परखने की क्षमता विकसित होगी।</p> <p>5. साहित्य के माध्यम से विविध समस्याओं से अवगत होकर उन समस्याओं के समाधान के लिए छात्रों को प्रेरणा मिलेगी।</p>
		<p>CO paper II & IV: नाटक तथा एकांकी</p> <ol style="list-style-type: none"> 1. हिंदी नाटक और एकांकी विधा का परिचय होगा। 2. नाटक के प्रति छात्रों में रुचि उत्पन्न होगी। 3. संवाद लेखन तथा वाचन कौशल का विकास होगा। 4. छात्रों को रंगमंच से संबंधित जानकारी प्राप्त होगी। 5. अभिनय के प्रति रुचि निर्माण होगी साथ ही अभिनय के क्षेत्र में करियर बनाने का अवसर प्राप्त होगा।
		<p>CO Paper- I & II : साहित्य भारती (SL)</p> <ol style="list-style-type: none"> 1. अहिंदी क्षेत्र के छात्रों को हिंदी भाषा का व्यावहारिक ज्ञान प्राप्त होगा। 2. द्वितीय भाषा के रूप में छात्रों को हिंदी और साहित्य का सामान्य परिचय होगा। 3. अहिंदी क्षेत्र के छात्रों में हिंदी के प्रति रुचि उत्पन्न होगी। 4. विविध साहित्यिक रचनाओं के माध्यम से छात्रों में नैतिक मूल्यों का विकास होगा।
	B.A. S.Y. Hindi	<p>CO Paper V मध्ययुगीन कविता खंड एक</p> <ol style="list-style-type: none"> 1. भारतीय भक्ति साधना का परिचय होगा। 2. भक्ति साहित्य के अध्ययन के माध्यम से छात्रों में मानवता का भाव विकसित होगा। 3. समाजिक सहिष्णुता की वृत्ति का विकास होगा। 4. भक्ति तथा नीति की शिक्षा से छात्रों का आत्मिक तथा अध्यात्मिक विकास होगा। 5. जीवन दर्शन तथा जीवन मूल्यों का विकास होगा।
		<p>Co Paper VI & VIII : निबंध तथा कथेत्तर गद्य</p> <ol style="list-style-type: none"> 1. निबंध विधा का परिचय होगा। 2. छात्रों में वैचारिक प्रगल्भता तथा बौद्धिक प्रौढता का विकास होगा। 3. कथेत्तर गद्य की रचनाओं के अध्ययन से चिंतन शीलता की वृद्धि होगी। 4. विविध कथेत्तर गद्य की विधाओं का परिचय होगा।
		<p>CO Paper VII आधुनिक कविता खंड दो</p> <ol style="list-style-type: none"> 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।
		<p>CO Paper- III : कथेत्तर गद्य (SL)</p> <ol style="list-style-type: none"> 1. अहिंदी क्षेत्र के छात्रों को द्वितीय भाषा के रूप में हिंदी भाषा तथा हिंदी साहित्य का ज्ञान होगा। 2. कथेत्तर गद्य के अध्ययन से छात्रों में चिंतन शीलता, 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, कर्तव्यपरायणता, नैतिकता आदि मूल्यों का विकास होगा।
		<p>CO Paper- IV : नाटक तथा प्रयोजनमूलक हिंदी (SL)</p> <ol style="list-style-type: none"> 1. द्वितीय भाषा के छात्रों को हिंदी नाटक साहित्य का सामान्य परिचय होगा। 2. संवाद लेखन तथा वाचन कौशल का विकास होगा। 3. द्वितीय 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, ई मेल निर्माण तथा प्रेशन आदि का ज्ञान प्राप्त होगा।
	B.A. T.Y. Hindi	<p>CO Paper IX हिंदी साहित्य का इतिहास</p> <ol style="list-style-type: none"> 1. हिंदी साहित्य के बृहत इतिहास का परिचय होगा। 2. 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।
		<p>CO Paper X : हिंदी भाषा</p> <ol style="list-style-type: none"> 1. हिंदी भाषा के प्रति छात्रों में रुचि उत्पन्न होगी। 2. हिंदी भाषा के प्रयुक्त 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 उपयोगिता सिद्ध होगी। 5. हिंदी भाषा अध्ययन के द्वारा नये नये रोजगार के अवसर प्राप्त होंगे।

		<p>CO Paper XI : साहित्य पास्त्र</p> <ol style="list-style-type: none"> छात्रों में साहित्य का भास्त्रीय पद्धति से अध्ययन करने की दृष्टि विकसित होगी। छात्र साहित्य पास्त्र के महत्व को आत्मसात करेंगे। भाब्द और अर्थ के संबधों का बोध होगा। भाशाई ि ल्य के परिवर्तनों का बोध होगा।
		<p>CO Paper XII : भाशा िक्षण</p> <ol style="list-style-type: none"> भाशा िक्षण के महत्व से परिचय होगा। हिंदी भाशा की व्याकरणिक कोटियों से परिचय होगा। भाशाई भुध्दता एवं कु ालता के द्वारा रोजगार के अवसर प्राप्त होंगे। हिंदी भाशा के साथ साथ विज्ञान तथा व्यापार की अद्यतन जानकारियाँ प्राप्त होंगी। छात्रों में लेखन कौ ाल विकसित होगा।

Department of English

Programs offered: B.A.English

Sr. No.	Program	Program objective
	B.A/B.SC First year Compulsory English	<p>Objectives:</p> <ol style="list-style-type: none"> 1) To enable the leaner's to communicate in English through close reading of 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 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. <p>Intended Outcomes:</p> <ol style="list-style-type: none"> 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 second Year Compulsory English	<p>Objectives:</p> <ol style="list-style-type: none"> 1) To enhance the ability of the learners to communicate in English through close reading of 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. <p>Intended outcomes</p> <ol style="list-style-type: none"> 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 I	B.A. F.Y.Paper No I,II,III,IV 1 Understanding Prose Fiction	<p>Name of the course: Understanding Prose Fiction</p> <p>Objectives:</p> <ol style="list-style-type: none"> 1) To introduce the learners to the basics of Prose Fiction in English through close reading of select literary texts. 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. <p>Intended Outcome</p> <ol style="list-style-type: none"> 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 Poetry	<p>Paper 2- : Understanding Poetry in English 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 English. 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.</p>
SEMESTER II	3 Understanding Nonfictional Prose	<p>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 literary 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.</p>
	4 Understanding Drama	<p>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</p>

		<p>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</p>
	<p>B.A. S. Y. Paper No V,VI,VII,VIII Skill Enhancement course</p>	<p>Paper 5: Indian Writing in English Objectives 1) To introduces students to Indian Writing in English from Colonial Age up to the contemporary Age, through the study of various literary genres such as poetry, prose, essay and Drama. 2) To refine the skills of critical thinking and rhetoric through thought-provoking personal Response writing, essay writing and research assignments. 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.</p>
		<p>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</p>

		analyze various literary innovations and their culture.
		<p>Paper 7: Indian Literature in English Translation Objectives</p> <p>1) To introduce the students to the magnificent Indian literary tradition through exposition to Some representative works available in English translation.</p> <p>2) To acquaint the students with the rich heritage of Indian regional literatures and their Significance.</p> <p>3) To induce the students to explore in depth the Indian spirit as evident from the diverse genres.</p> <p>Intended Outcomes</p> <p>1) The students will acquire an introductory knowledge of Indian literary heritage.</p> <p>2) The students will be familiarized with the significant socio-cultural issues in India through Close reading of literary texts from diverse regions.</p> <p>3) The students will realize the intellectual potential available from the Indian literary texts from Various Indian languages.</p>
		<p>Paper 8: Women’s Literature Objectives</p> <p>1) To introduce students to Women’s Writing, through the study of various literary genres Written by women of different nationalities such as poetry, prose, essay and drama.</p> <p>2) To equip students with the knowledge and skills to read and comprehend texts written by Women.</p> <p>3) To enable the students for identifying and describing distinct literary characteristics of Women’s literature.</p> <p>Intended outcomes</p> <p>1) Students will be able to critically analyze the structure and meaning of various literary works Written by women authors.</p> <p>2) Students will acquire knowledge of the major concerns of the women through a reading of the Representative works from different nations.</p> <p>3) Students will be acquainted with the richness and depth of the female experience as depicted through their literary representations.</p>
	Skill Enhancement Course (SEC) - Semester III	<p>Skills for Employability-I Employability-II Objectives of the Course:</p> <p>To provide sound knowledge and training of</p>

	<p>Semester IV</p>	<p>Employability Skills to learners To expose learners to a variety of self-instructional, learner-friendly modes of communication for improving their employability To expose learners to a variety of sub-skills in order to hone their skills as required in the present job market To develop a work culture among learners for upcoming job opportunities Utility of the Course: Developing a course that meets requirements of the 21st century learners Building Vocabulary comprising Spelling and Pronunciation in English Developing dialogues for Conversation Skills Developing activities for written communication Developing strategies for professional skills and Soft Skills.</p>
	<p>B.A. T.Y. Paper NO. IX,X,XI,XII & Skill Enhancement course OptionalEnglish</p>	<p>DSEI-Semester Title of the course: Literary Criticism -I Objectives: 1) To introduce the concept and significance of Literary Criticism in Literary Studies 2) To acquaint the learners to the Classical and Renaissance 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</p>
		<p>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</p>

		<p>data in the International Phonetic Alphabet (IPA).</p> <p>3) The ability of synthesizing speech will be acquired.</p>
		<p>Objectives:</p> <p>1) To impart the knowledge of significant propositions propounded by major English Literary critics.</p> <p>2) To acquaint the learners with the foundation for the development of critical schools in English Studies after the Renaissance.</p> <p>3) To enable the learners for undertaking practical criticism</p> <p>Intended Outcomes:</p> <p>1) Learners will understand the basic principles of Literary Criticism as revealed from the study of the individual critics.</p> <p>2) Learners will perceive the development of English Literary Criticism through the ages.</p> <p>3) An ability to appreciate literary text through the practice of actual critical analysis will be gained.</p>
		<p>Objectives:</p> <p>1) To develop a good understanding of modern English grammar.</p> <p>2) To enable the learners to produce grammatically and idiomatically correct language.</p> <p>3) To impart the knowledge of the theory and practice in the field of English grammar at contemporary times.</p> <p>Intended Outcomes:</p> <p>1) The learners will be able to have an appreciable understanding of English grammar.</p> <p>2) The learners will gain capability of producing grammatically and idiomatically correct spoken and written discourse.</p> <p>3) The learners will acquire the skill of locating language errors and ambiguities.</p>
		<p>. Objectives</p> <p>1. The course prepares the learners for a smooth entry in to the world of work</p> <p>2. Self-awareness and social awareness are developed</p> <p>3. Skill necessary for digital life style are introduced</p> <p>Utility of the Course:</p> <p>1) Developing personal and social skills in the learners</p> <p>2) Creating gender awareness</p> <p>3) Developing skills for individual and group activities</p> <p>Objectives:</p> <p>1) To assist the learners for a smooth transition from student life in to the world of work.</p> <p>2) To develop the skills necessary for understanding one self and the socio-cultural group.</p>

		<p>3)To help the learners choose the best ways of utilizing their time, efforts and mental energies.</p> <p>4)To provide training in skills required to find, understand, evaluate, create, and communicate digital information in a wide variety of formats.</p> <p>5)To make the learners able to use diverse technologies appropriately and effectively to retrieve information, interpret results, and judge the quality of that information.</p> <p>Prerequisites for the Course:</p> <ol style="list-style-type: none"> 1. Handouts, course material and activity sheets 2. Progress chart of learners for evaluation of their performance.
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Department of Economics

Programs offered: B.A. Economics

Sr. No.	Program	Program objective	Program Specific Objectives
	B.A. Economics	<p>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 made continuously</p>	<p>SO1. To provide through knowledge about various Economical issues.</p> <p>SO2. To make the students aware of applications of Economics subject in various Field.</p> <p>SO3. To highlight the potential of various branches to become an entrepreneur.</p> <p>SO4. To equip the students with skills related to Banking as well as field based studies</p> <p>SO5. To inculcate interest and foundation for further studies in Economics.</p> <p>SO6. To address the socio- economical challenges related to Social science.</p>
		<p>which are giving it a greater adaptability and exposure to students. To improve the educational standard</p>	

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

S. No.	Course	Course outcome
	A. F.Y.	<p>CO Paper- I : Micro Economics</p> <ol style="list-style-type: none"> 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.
		<p>CO paper II : Agriculture Economics</p> <ol style="list-style-type: none"> 1. To study the main characteristics of Rural Economy in India 2. To study the concept of Production, Agriculture Production and Agriculture Productivity etc 3. To understand the role of Agriculture in economic Development. 4. To study of Agriculture All Aspect Which Impact the Economy.
		<p>CO Paper III : Micro Economics</p> <ol style="list-style-type: none"> 1. To study the Concept and theories of Production. 2. To understand the concepts of Cost and Revenue. 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
		<p>CO Paper IV : Agriculture Economics</p> <ol style="list-style-type: none"> 1. To study the main characteristics of Agriculture Sector. 2. To understand the role of Agriculture in economy of India. 3. To study the concept of Agriculture Finance, Agriculture Price, Labor Market etc. 4. Students will understand the various challenges of Rural Labor Market in India. 5. Students will be study the problems of Agriculture Finance.
	A. S. Y.	<p>CO Paper V : Macro Economics</p> <ol style="list-style-type: none"> 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.
		<p>Co Paper VI : Statistical Method</p> <ol style="list-style-type: none"> 1. To apply quantitative skill to real economic problems. 2. To study the rank correlation coefficient and apply practically. 3. To study the various techniques in statistics. 4. To study the mathematical techniques in the competitive exams. 5. To study for the increase of the numerical efficiency among the student.

		<p>CO Paper VII : Banking</p> <ol style="list-style-type: none"> 1. Discuss Banking systems inexistence and how they are structured 2. Explain the relative importance of new modes of payments (cashless) in transactions. 3. Discuss the main types of cashless instruments and the main techniques employed by banks
		<p>CO paper-VIII : Statistical Method</p> <ol style="list-style-type: none"> 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
	.A. T.Y.	<p>CO Paper IX : Quantities Technique</p> <ol style="list-style-type: none"> 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
		<p>CO Paper X : Indian Economy</p> <ol style="list-style-type: none"> 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.
		<p>CO Paper XI : Quantities Technique</p> <ol style="list-style-type: none"> 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.
		<p>CO Paper XII : Public Finance</p> <ol style="list-style-type: none"> 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

Department of History

Programs offered: B.A. History

Sr. No.	Program	Programme objective	Programme Specific Objectives
	B.A. History	<p>The programme educational objective of the undergraduate programme in history, WILL be able to:</p> <ul style="list-style-type: none"> • 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 	<p>SO1. To understand the historical advancement of Ancient India from stone age to 647 A.D.</p> <p>PSO2. To understand the historical events from 648 A.D. to 1526 A.D.</p> <p>SO3. To understand the most important and inspiring history of Chhatrapati Shivaji Maharaj and his times.</p> <p>SO4. Students WILL understand the historical advancement of Mughal period 1526 to 1707 A.D.</p> <p>PSO5. To introduce Indian Freedom Struggle Movements in broad manner.</p> <p>SO6. To aware the students to know the contribution of Social Reformers & social change process in Modern Maharashtra.</p> <p>SO7.(SEC) To introduce the students to the Indian art & Tourism.</p> <p>SO8. (SEC) To introduce the students to the Indian art from past to present.</p>

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.	<p>CO Paper- I & III : History of Ancient India (up to 647 A.D.)</p> <ol style="list-style-type: none"> 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.
		<p>CO Paper II & IV: History of India (648 to 1526 A.D.)</p> <ol style="list-style-type: none"> 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.

	.A. S. Y.	<p>CO Paper V & VII : Chhatrapati Shivaji and his Times (1630 A.D. to 1707A.D.) 1. Student will have the brief introduction of Chhatrapati Shivaji and his contribution. 2. Students will be aware of conflict of Chhatrapati 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 Chhatrapati 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 Chhatrapati Shivaji in building an independent Swarajya 7) Students will be introduce the various policies regarding Agriculture, Water management, Environment and Scientific approach of Chhatrapati Shivaji Maharaj.</p>
		<p>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) It WILL introduce the students about the contributions of Mughal Badshah and British governors.</p>
	EC	<p>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 exposor 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</p>
	.A. T.Y.	<p>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.</p>
		<p>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.</p>

		<p>CO Paper X & XII : Social Reformers in Modern Maharashtra</p> <ol style="list-style-type: none"> 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
	EC	<p>CO SEC III & IV : Appreciation of Indian Art</p> <ol style="list-style-type: none"> 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 Sociology

Programs offered: B.A. Sociology

Sl. No.	Program	Program objective	Program Specific Objectives
	B.A. Sociology		<p>SO1. student learn basic concepts of Sociology and Student could acquire scientific Knowledge of introductory Sociology</p> <p>SO2. The Students learn societal objectives of Social integration Social reproduction and Social continuity..</p> <p>SO3. The Students of Sociology must possess the Knowledge of</p>

		<p>various Health-related concepts and diseases.</p> <p>PSO4. Students know the basic concepts of sociology.</p> <p>PSO5. Students know our culture and the society problems</p> <p>PSO6. Students know the social health.</p> <p>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.</p> <p>Introduction Period</p> <p>PSO8. students will have an opportunity to learn philosophical Background of various social movements in India.</p> <p>PSO9. Students Know present era rural development programmes improvement of the living standards and providing them opportunities for rural peoples.</p> <p>PSO 10. Students will be made to elaborate a framework for the observation of the present problems.</p>

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

Cr. No.	Course	Course outcome
	A. F.Y.	<p>CO Paper- I: Introduction to Sociology</p> <p>1. student will learn basic concepts of Sociology and Student could acquire scientific Knowledge of introductory Sociology</p>
		<p>CO paper II: Major Social Institutions</p> <p>1. Students will understanding of the basic social Institutions</p> <p>2. The Students learn societal objectives of Social integration Social reproduction and Social continuity.</p>
		<p>CO Paper – III. Basic Concepts in sociology</p> <p>1. The student will be able know about the basic concepts of sociology.</p>
		<p>CO Paper IV. Social Institutions and Its Problems</p> <p>Students know our culture and the society problems</p>

	A. S. Y.	<p>CO Paper V- Indian Society : Structure & Change 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</p>
		<p>social Milieu presented in proposed course will enable students to gain a better understanding of their situation and region.</p>
		<p>CO Paper VI Transformative Movement in India 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 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 social movements in India.</p>
		<p>CO Paper – VII Social Problems in Contemporary India Students will able to understand the consideration on the legal and the secular state in India. We will explore the contemporary Social issues, causes of crime, gender discrimination in various institutional context and women's issues that have been central to it.</p>
		<p>CO paper-VIII Human Rights and Society 1. Students are able 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.</p>
		<p>Skill Enhancement Course – I Rural Society and Development 1. To understand Rural Society 2 To Know the various Rural Development Programmes. 3 To understand issues in process of implementation of rural development programmes.</p>
		<p>Skill Enhancement Course – II Problem of Slum 1 To understand problem faced by people living in slums 2 To Know slum people and their living conditions 3 To Know various programmes related to problems of slum</p>
	A. T.Y.	<p>SE – A : Western Sociological Thinkers – I 1. Students will able to understand the introduce with western social thinkers understand their analysis and build up your own ideas. 2. Students will know about development stages of sociology. It is intended to cover those who have made substantive contributions to social theory and research, including any sociology with sub field.</p>

		<p>GE – A : Methods of Social Research – I</p> <p>1. Students will understanding of the nature of social phenomena. The issue involved in social research and the ways and means of understanding and studying social reality.</p> <p>2. Firstly, on the study of research methods as a means of understanding social reality.</p>
		<p>3. Second, the tools and techniques are only instruments and not the end or goal of research.</p> <p>4. Thirdly, there are different perspectives and methods (as a quantitative and qualitative research) of understanding social phenomena.</p>
		<p>EC – III : Social Counseling – 1</p> <p>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.</p> <p>2. Students will able to which tools and techniques to the students for social counseling.</p>
		<p>SE – B : Modern Sociological Thoughts in India – II</p> <p>1. Studnets will help student to introduce with modern Indian Social Thinkers to understand their thoughts and build your own ideas.</p> <p>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.</p>
		<p>GE – B: Techniques of Social Research – II</p> <p>1. Students will able understanding of the nature of social phenomena.</p> <p>2. Firstly, on the study of research methods as a means of understanding social reality.</p> <p>3. Second, the tools and techniques are only instruments and not the end or goal of research.</p> <p>4. Thirdly, there are different perspectives and methods (as a quantitative and qualitative research) of understanding social phenomena. There are no universally accepted methods.</p>
		<p>EC – III : Social Counseling – 2</p> <p>1. Students will able to understand the moral ethics and values which would be helpful for the sustainable development of the human society.</p> <p>This course has field work and field visit camp to provide opportunities to students to understands issues and problem for solutions and adopt the counseling skills.</p>

Department of Geography

Programs offered: B. A. Geography

Sr. No.	Program	Program objective	Program Specific Objectives
	B. A. Geography	<p>Inspire the students for pursuing higher studies in Geography and for becoming an Entrepreneur and also enable students to get employed in the geography Related</p>	<p>SO1. To provide through knowledge about various geographical factors</p> <p>SO2. To make the students aware of applications of Geography subject in various sectors.</p> <p>SO3. To highlight the potential of various branches to become an</p>

		ector & Institutes, industries, Educational institutes Research institutes and in the various concerning department of State and central Government based on Geography subject.	ntrepreneur. SO4. To equip the students with skills related to laboratory as well as field based studies SO5. To make the students aware about conservation and sustainable use of Natural resources. SO6. To inculcate interest and foundation for further studies in geography. SO7. To address the socio-economical challenges related to geography. SO8. To facilitate students for picking up and shaping a successful career in Geography. SO9. To create interest in nature conservation among the students SO10. The life of all living creatures on earth depends on nature, so it is the duty of human beings to conserve nature.
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Courses offered: B.A. F.Y. Geography, B.A.S.Y. Geography and B.A.T.Y. Geography

S. No.	Course	Course outcome
	B.A. F.Y.	CCGEOG- I - An Introduction to Physical Geography 1) Students know about the formation and structure of Solar System 2) Students learn about the various planets in the solar system and their satellites 3) Students know about continental and ocean formation 4) Students learn about different types of landforms on Earth 5) Students know how the earth rotates 6) Students understand the effects of Rotation and Revolution of the earth 7) Students understand the truth about solar eclipse and lunar eclipse and misconceptions about it are removed
		CCGEOG- II - An Introduction to Human Geography 1) Students know about Race evolution and types 2) Students have knowledge about nature and environment 3) Students know about the life of tribes living in different parts of the world.
		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 Relief Showing methods 4) Students are aware of the landforms in the land view map.
		CCGEOG- IV-Geomorphology

		<p>1) Students know about the creation and evolution of various earth forms.</p> <p>2) Students know the process, type and process of rock formation.</p> <p>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.</p> <p>4) Students get scientific information about disasters like earthquakes and thus remove misconceptions about them.</p>
		<p>CGEOG-V-Population Geography</p> <p>1) Students know about population growth and distribution in the world and in India</p> <p>2) Students have information about working population, gender ratio and literacy rate in India</p>
		<p>CGEOG – VI: Practical Geography</p> <p>1) Students acquire the skills of reading Indian topographical map.</p> <p>2) Students get the skill to get information about various natural and cultural elements of the region on the basis of topographical map.</p> <p>3) Students acquire the skills of presenting geographical information with the help of line graphs and bar graphs.</p>
	A. S. Y.	<p>CGEO- VII: Human Geography</p> <p>1) Students know the real relationship between human and environment</p> <p>2) Knows the various functions of human beings</p> <p>3) Knows about human life in different parts of the world</p> <p>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</p>
		<p>CCGEO- VIII Economic Geography</p> <p>1) Students know about the economic activities of human beings in different regions of the earth</p> <p>2) Students have knowledge about agriculture, mineral resources, energy resources, industries, trade and transportation in different regions.</p> <p>3) Students understand the importance of having various natural resources for the development of human life</p> <p>4) Students have knowledge about conservation and planning of natural resources</p>
		<p>CCGEO- IX Practical Geography</p> <p>1) Students acquire skills in presenting various geographical elements in two dimensional and distribution maps.</p> <p>2) Students acquire skills to measure population density and population growth</p>
		<p>SEC I Tourism Geography</p> <p>1) Students know various aspects of tourism</p> <p>2) Students know the role of tourism center in the development of various regions</p> <p>3) Students acquire various skills related to tourism</p>
		CCGEO- X Geography of Maharashtra

		<p>1) Students learn about the natural resources of Maharashtra, river system, soil, vegetation, minerals and energy resources</p> <p>2) Students get to know the various features of agriculture, irrigation, industrialization and population in Maharashtra and in all these factors they get information about where Maharashtra is compared to other states in India.</p>
		<p>CCGEO- XI Population Geography</p> <p>1) Students know about population growth and distribution in the world and in India</p> <p>2) Students have information about working population, gender ratio and literacy rate in India</p>
		<p>CCGEO- XII Practical Geography</p> <p>1) Students acquire skills to present meteorological data with the help of various meteorological graphs and figures.</p> <p>2) Students understand the design and operation of equipment for recording meteorological factors</p> <p>3) Students acquire the skills of how to read Indian daily weather condition map and identify the weather conditions based on it.</p>
		<p>SEC II Soil Geography</p> <p>1) Students know the process of formation and distribution of different types of soil on earth</p> <p>2) Students understand the importance of soil for all living creatures on earth and especially for human development</p> <p>3) Students acquire soil conservation skills</p>
	A. T.Y.	<p>DSE GEOG-I XIII: Development of Geographical Thought – Part- I</p> <p>1) Students know about the development of geographical thinking from ancient to modern times</p> <p>2) Students know the role of thinkers of different times and different countries in the development of geography.</p>
		<p>GE GEOG-I XIV Geography of India – Part- I</p> <p>1) Students are aware of the natural elements of India, natural climate, river system, soil and vegetation</p> <p>2) Students have information about the distribution of water, mineral and energy research in India</p> <p>3) Students know the importance of planning various resource wealth in India.</p>
		<p>DSE GEOG-II XV Practical Geography</p> <p>1) Students acquire skills to create different types of projections</p> <p>2) Students acquire the skill of surveying the land with the help of various instruments.</p>
		<p>SEC III An Introduction to Research Methodology</p> <p>1) Students know the steps of doing research work</p> <p>2) Students get the skills to do research work</p> <p>3) Students acquire the skill of Report writing based on the researched information</p>
		<p>DSE GEOGIII XVI: Development of Geographical Thought – Part II</p> <p>1) Students know the basic concepts of geography</p> <p>2) Students get the skills to use various approaches to solve various</p>

		problems by getting acquainted with the study of geography and the paradigms in the subject.
		<p>GE GEOG-II XVII Geography of India – Part II</p> <ol style="list-style-type: none"> 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, trade and colonies in India 4) Students are aware of issues like regional inequality, poverty and gender in India's development
		<p>DSE GEOGIV—XVIII: Practical Geography</p> <ol style="list-style-type: none"> 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.
		<p>SEC IV Disaster Management</p> <ol style="list-style-type: none"> 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 Physical Education

Programs offered: B.A. Physical Education

Sr. No.	Program	Program objective	Program Specific Objectives
	B.A. Physical Education	<p>Students are able to know about all physical education games and sports.</p> <p>Students are achieve the goal in physical education.</p> <p>Students will participate in the national and international games.</p> <p>Students will able to stand and improvement in carrier with the physical education.</p>	<p>SO1. student learn basic concepts of history of Physical Education</p> <p>SO2. The Students learn Principle of Physical Education</p> <p>SO3. The Students of Sociology must possess the Knowledge of various Health-related concepts and diseases.</p> <p>SO4. Students know the Basic Anatomy,Physiologyand First Aid</p> <p>SO5. The course may provide opportunity to higher education specially in the field of physical education</p> <p>SO6 The course is significant to enhance the abilities of the student to work in thedifferent fields of Physical education in the area of coaching,</p>

		teaching, guidance & Curriculum development etc. PSO7 The 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

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

Cr. No.	Course	Course outcome
	A. F.Y.	O 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
		O 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
		O 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
		O Paper IV- Practical Students will able to understand the height measurement shot- put, Long jump, Table tennis, etc. students are able to understand the mentation the record in record book.
	A. S. Y.	O 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.
		o 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.
		EC- I Fitness and wellness 1. Students will able to understand the different fitness exercise .

		Students will know about Nature and Duties of Life Guard
		<p>O Paper – VII Fitness and Diet</p> <ol style="list-style-type: none"> 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.
		<p>O paper-VIII External Practical</p> <ol style="list-style-type: none"> 1. Students are able to understand the fundamental skill in different games like Throwing event, Jumping event, Cricket, judo etc.
		<p>Skill Enhancement Course – II Curative Therapies</p> <ol style="list-style-type: none"> 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 Benefit of acupressure.
	A. T.Y.	<p>SE – A : Paper-IX ORGANIZATION AND MANAGEMENT IN PHYSICAL EDUCATION</p> <p>Students are able to understand the basic management in physical education Students will be understand organize the games and tournaments.</p>
		<p>paper- X Generic Elective, Physical Education Practical</p> <p>Students will know about the practically play the games asn sports</p>
		<p>Skill Enhancement Course -III</p> <p>Logic Therapies and Sports Physiotherapy</p> <p>Students are able to understand the Yoga , diet and physiotherapy</p>
		<p>paper-XI Test measurement and Psychology in Physical Education and Sports</p> <p>Students are able to understand the Test and Measurement, construction and classification of Test, Scope of Sports Psychology.</p>
		<p>paper- Xiigeneric Elective Physical Education Practical</p> <ol style="list-style-type: none"> 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
		<p>EC-IV Officiating and Coaching</p> <ol style="list-style-type: none"> 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 Political Science

Programs offered: B.A. Political Science

Sr. No.	Program	Program objective	Program Specific Objectives
B.A.I Year			
1	B.A.I Political Science	Paper Title : Political Theory, Paper – I, III	
		<p>This is an introductory paper to the concepts; ideas and theories in political theory. It seeks explain the evolution and usage of these concepts, ideas and theories with reference to individual thinkers both historically and analytically. The different ideological standpoints with regard to various concepts and theories are to be critically explained with the purpose of highlighting the difference in their perspectives and in order to understand their continuity and change. Furthermore there is a need to emphasize the continuing relevance of these concepts today and explain how in idea and theory of yester years gains prominence in contemporary political theory.</p>	<ul style="list-style-type: none"> i) To study the various Political concepts and Political analysis. ii) To study the introductory part of Political concepts and relevant issues. iii) To study the Political concepts and its relevant parts. iv) To study the basic concepts of Political theories or issues concern with Political ideas.
2	B.A.I Political Science	Paper Title : Government and Politics of Maharashtra, Paper – II,	
		<p>This paper 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. It not only deals with evolution or formation of Maharashtra state but focus on the changing nature of political culture thereof, and the role of different regional parties in shaping states political system. Followed by structure and function of state government, state legislature, and local self-government, followed by Electoral process which is responsible for stability or instability of Maharashtra political system.</p>	<ul style="list-style-type: none"> i) To Study the various Elements concern with Maharashtra Politics and State Activity. ii) To understand different political issues of Maharashtra Politics. iii) To understand the Government of Maharashtra State and its organs. iv) To understand various Administrative Machineries of Local Government.
B.A.II Year			
3	B.A.II Political Science	Paper Title : Indian Constitution, Paper – V,	
		Paper Title : Indian Government and Politics VII	
		<p>This course acquaints students with the constitution, design of state structure,</p>	<ul style="list-style-type: none"> i) To prepare students for competitive exams like

		stitutions and their actual working over time. The Indian constitution accommodates conflicting impulses of liberty and justice, territorial decentralization and a strong union for instance within itself. The course traces the embodiment some of these conflicts in constitutional provisions and shows how thus have played out in Political practices. In further, encourages a study of state institution in their mutual interaction with the larger extra constitutional environment.	UPSC, MPSC and other Exams. ii) To expose the students with basic concepts and political institutions like Parliament, Supreme Court, Political Parties Constitution & Democracy etc. iii) To introduce the students with the administrative and Political setup and Mechanism with roll and functions. iv) To develop sensitive citizenship among the students
4	B.A.II Political Science	Paper Title : International Relations, Paper-VI, Paper Title : International Organizations & Issues, Paper-VIII International Relations is the study of interactions Students will acquire knowledge of the basic structure, processes & trends of International Politics. To understand the conceptual framework needed to systematic analysis of World Politics, understand and be capable of evaluating the validity of constructivist approach, To understand theories & concepts of International Relations, International Organization and non government organizations, Role of UN, International Law and contemporary critical issues in World politics, study of International Relations and develop the ability to think critically above current issues and the future of the world order.	i) To Prepare students for competitive exams like UPSC, MPSC and other Exams. ii) To produce students with Key Political concepts like, power diplomacy, propaganda, International Law, UNO National Interest, National Power, Disarmament etc iii) To introduce the basic of International Relations. iv) The Prepare Students ready for different carriers like Political analyst, Politicians, Media, Professionals and Sensitive Citizens.
5	B.A.II Political Science	Paper Title : Election Management- I Paper : SEC -I This course will give introduction to the students of the debates, principles & practices of Election Management. Election, electoral, voting behavior, political participation, public opinion of the context of Democracies with special reference to India. It will familiarize the students with how to conceptualize &	The main purpose of this paper is to educate students about the Elections of India.

		measures of election management using quantitative methods, with particular attending being paid to development basic skills pertaining to the collection, analyze and utilization of data.	
6	B.A.II Political Science	Paper Title : Political Journalism, Paper : SEC -II This course will give introduction to the students of political journalism aims to provide voters with the information to formulate their own opinion and participate in community, local to global matter that will effect then. Political journalism is provided through different mediums in print, broadcast, online reporting, instant coverage of campaign, politics, event news, government status, election updates etc.	The main purpose of this paper is to educate students about the Political Journalism in India.
B.A.III Year			
7	B.A.III Political Science	Paper Title : Western Political Thinker, Paper-IX This paper focus on the Classical ideas generated in the western world representation the ancient to the modern. The four thinkers have been selected who represent ideal, realistic and liberal tradition. The text are interpreted both in the historical and Philosophical perspective.	The main purpose of this paper is to acknowledge students with how the great masters explained and analyzed political events and problems of their time and prescribed solutions.
8	B.A.III Political Science	Paper Title : Government & Politics of United Kingdom, Paper-X This course acquaints students with the constitution, design of state structure, institutions and their actual working over time. Government & Politics of United Kingdom accommodates conflicting impulses of liberty and justice, territorial decentralization and a strong union for instance within itself. The course traces the embodiment some of these conflicts in constitutional provisions and shows how thus have played out in Political practices. In further, encourages a study of state institution in their mutual interaction with larger extra constitutional environment.	<ul style="list-style-type: none"> i) To prepare students for competitive exams like UPSC, MPSC and other Exams. ii) To expose the students with basic concepts and political institutions like Parliament, Supreme Court, Political Parties Constitution & Democracy etc. iii) To introduce the students with the administrative and Political setup and Mechanism with roll and functions. iv) To develop sensitive citizenship among the students
9	B.A.III Political Science	Paper Title : Indian Political Thinkers, Paper-XI	
		This is an introductory paper to the concept, ideas and theories developed in	The main objective to study this paper is to

		dia. 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.	nderstand key thinker's seminal contribution to the evolution of political theorizing in India.
		OR	
		Paper Title : India's Foreign Policy, Paper-XI	
		This paper 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.	The main objective of this paper is to familiar students with change and continuity, major issues and debates in India's foreign policy.

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
SEMESTER I & II		
01	A. F.Y.	<p>Political Theory, Paper – I, III</p> <p>i) Pupils will understand the basic Political concepts by standing the course.</p> <p>ii) Students will be able to solve the Political problems by standing this course.</p> <p>iii) Students will acquire the judgment power by standing the various Political</p> <p>iv) Ideas, concepts and other Political issues concern with Politics.</p>
02	A. F.Y.	<p>Government and Politics of Maharashtra, Paper -II, IV</p> <p>i) Students will understand the formation, Government and other Political issues concern with Maharashtra Government.</p> <p>ii) Student will be to solve the Political problems by studying this course.</p> <p>iii) Pupils will acquire to understand various Political issues, Political process and Political activity.</p> <p>iv) Students get various political ideas concern with state Government and other relevant Political issues.</p>
SEMESTER III & IV		
03	B.A.S.Y.	<p>Paper Title : Indian Constitution, Paper – V, Paper Title : Indian Government and Politics VII</p> <p>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.</p>
04	B.A.S.Y.	<p>Paper Title : International Relations, Paper-VI, Paper Title : International Organizations & Issues, Paper-VIII</p> <p>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</p>

		helps students to prepare themselves for competitive exams like UPSC, PSC etc. moreover it will career like Political analyst Media, Professionals and Ideal Politicians.
05	A.S.Y.	Paper Title : Election Management- I Paper : SEC -I i) It will help students to eradicate fear of General Elections. ii) Pupils will develop skills to Face General Elections iii) Students will know the process of General Elections iv) Students will understand the how to face General Elections.
06	A.S.Y.	Paper Title : Political Journalism, Paper : SEC -II i) It will help students to understand the Political Journalism. ii) Pupils will develop skills of Political Journalism. iii) Students will know and use Journalism Skills in there Life.
SEMESTER V, VI		
07	A.T.Y.	Paper Title : Western Political Thinker, Paper-IX 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.
08	A.T.Y.	Paper Title : Government & Politics of United Kingdom, Paper-X 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 Government & politics of United Kingdom with their Fundamental Rights and Duties.
09	A.T.Y.	Paper Title : Indian Political Thinkers, Paper-XI 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 Post-independence India.
		OR
		Paper Title : India's Foreign Policy, Paper-XI This Course will encourage the student to undertake an n depth analysis of India's foreign policy.

Department of Public Administration
Programs offered: B.A. Public Administration

Sr. No.	Program	Program objective	Program Specific Objectives

01	<p>B.A. I Public Administration</p>	<p>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. The Public Administration and Administrative Officers playing impartment role in social and economic development of the Nation. Administration is as old as mankind. It has acquired all spheres of human life right from birth to death. It is very close to the daily life of any person in practical. Public Administration Studies the systematic implementation of Laws and Government policies, theories principles and its controlling system. The subject stands as an integral element of democratic system of the nation.</p> <p>The Present system of district administration owes its origin to the time of the Mauryan Empire. But modern structure of district administration in India developed in Colonial Period (1772). At that time was district administration established for collection of revenue. In the present era, 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.</p> <p>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. The course is introduced to comprehend 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, Moral ,Communication etc..</p> <p>Maharashtra has a parliamentary system of government with two democratically elected houses, the Legislative Assembly (Vidhan Sabha)</p>	<p>PSO1. The Course introduces and provides knowledge of Public Administration.</p> <p>PSO2. To provide knowledge of the new trends in public administration</p> <p>PSO3. To understand the relations of public administration with other humanities</p> <p>PSO4. To know District Administration.</p> <p>PSO5.To understand Structure and function of various Administrative offices of District Administration. PSO6. To provide knowledge of the Revenue Administration, Police administration and Judiciary system at district and taluka level.</p> <p>PSO7. After studying the course students will have a capacity to understand the Basic Knowledge of administrative Organization and its principles.</p> <p>PSO8. To provide knowledge of the Functions and qualities of chief executive</p> <p>PSO9. To understand the importance of public relations in administration.</p> <p>PSO10.After studying the course students will have a capacity to understand :</p> <p>PSO11.To Understand the Role of Chief Minister and State Secretariat in Maharashtra state.</p> <p>PSO12.To understand Structure and function of State Legislature</p> <p>PSO13.To provide knowledge of the state government and Administration.</p>
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		<p>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. It 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 Ministers, M.P.S.C., state Election Commission etc.</p>	
02	B.A. II Public Administration	<p>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 administration.</p> <p>India is a Democratic Republic with a Parliamentary form of government which is federal in structure with unitary features. There is a Council of Ministers with the Prime Minister its head to advice the President who is the constitutional head of the country. Similarly in states there is a Council of Ministers with Chief Minister as its head, who advises the Governor. In this paper focus is on the Structure of State Government and Administration with special reference to Maharashtra. The course is designed to provide knowledge to the students about formation of state in India, State Legislature, State executive and State judiciary.</p> <p>Rural development programmes are designed to facilitate a multi-faceted</p>	<p>PSO14. To familiarize the students with basic process of Civil Service Recruitment in Indian Personnel Administration.</p> <p>PSO15.To understand how to Train Civil Servants for their Better Role in Indian Governance and Administration.</p> <p>PSO16. To know the Systematic process in Personnel Administration (Recruitment to Retirement of the Personnel).</p> <p>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.</p> <p>PSO19.To brief them about the Systematic process in Personnel Administration (Recruitment to Retirement).</p> <p>PSO20.To acquaint the students about how the human resource planning is done.</p> <p>PSO21. The Course introduces and provides knowledge of State Government and Administration.</p> <p>PSO22.To understand process of State Judiciary.</p> <p>PSO23. To know perceive Constitutional and Statutory</p>

		<p>rowth 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.</p> <p>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.</p> <p>The Present system of district administration owes its origin to the time of the Mauryan Empire. But modern structure of district administration in India developed in Colonial Period (1772). At that time was district administration established for collection of revenue. In the present era, district is the basic territorial unit of administration in India. District administration is the total functioning of Government in a district. In this paper stress is on providing knowledge of district administration for the Students.</p> <p>The E-Governance is basically 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 and Communication technology to transform the efficiency, effectiveness, transparency and</p>	<p>Agencies.</p> <p>PSO24. To understand Rural Development and Empowerment.</p> <p>PSO25.To study various Rural Development Programmes.</p> <p>PSO26.To understand various issues in rural development programmes</p> <p>PSO27. The students would learn about the Three tier system of Panchayati Raj Institutions in Maharashtra state.</p> <p>PSO28. It will help the students understand do the local self government function for the overall well being .</p> <p>PSO29. It would demonstrate a basic understanding for various aspects of Three tier system of Panchayati Raj Institutions.</p> <p>PSO30. The students would be enlightened about the role of Panchayati Raj Institutions in Development of India.</p> <p>PSO31. To understand the meaning of Office Administration.</p> <p>PSO32. To introduce the Office Procedure and Method.</p> <p>PSO33.To identify various problems in Office Administration. PSO34.It Introduce and Provides the students with the Knowledge of Administrative Skills.</p> <p>PSO35. The students are acquainted with the work of Good Administrator</p> <p>PSO36. The enhances the ability of the Students to understand the work of the good Administrator .</p> <p>PSO37. To know what is District Administration means.</p> <p>PSO38.To understand Structure and function of various departments of District Administration.</p> <p>PSO39.To provide knowledge of the revenue system, Judiciary system and Police administration at district level.</p> <p>PSO40. To Understand the Role of Urban Local Government in the Development of the Nation.</p> <p>PSO41.To Develop a Local</p>
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		<p>countability 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.</p>	<p>Leadership in urban area. PSO42. To Understand the Role of urban local Institutions in urban development. PSO43. To acquaint the students with the basic local governing system. PSO44. To familiarize the students with concept of E-Governance and digital technology in service delivery. PSO45. To understand how to use of E-Governance in various administrative departments. PSO46. To know the application of E-Governance and various issues. PSO47. The Course would introduce and Provide Knowledge of E-Administration to the students. PSO48. To familiarize the students with the concept of E- Administration . PSO49. It will acquaint the students the way ICT (Information and Communication technology) would be applied on Administration . PSO50. It would help the students understand the need & significance of e-devices in Public Administration.</p>
03	B.A. III Public Administration	<p>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. Administrative Thinkers and their contribution is an important part of public administration. The main thing is to impart knowledge of Indian and western administrative theories .</p> <p>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.</p>	<p>PSO51. After studying the course students will have a capacity to understand the basic knowledge of various administrative Theories. PSO52. The approaches of study of public administration. PSO53. The relevance of thoughts in organizations. PSO54. To provide basic Knowledge of financial administration. PSO55. To Understand the Indian Budgetary process. PSO56. To Familiarize the students with basic Knowledge of Budget and financial administration . PSO57. To Understand the Three tire system of panchayati Raj in Maharashtra state. PSO58. Understand to how to help to Zilla parishad, panchayat samiti and Gram Panchayat improve</p>

		<p>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 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</p> <p>ill 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.</p> <p>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.</p> <p>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. The impact of Information Technology has given to many new trends which have all branches in public administration. Recent trends is an important part of public administration. The main thing is to impart knowledge of recent trends in public administration.</p> <p>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.</p> <p>Western Administrative Thinkers and their contribution is an important part of public administration. The main thing is to impart knowledge of western administrative theories .</p> <p>One of the most significant development in India since</p>	<p>their overall well being .</p> <p>PSO59. To develop awareness of the basic Governing system to students.</p> <p>PSO60. The Course Introduce and Provides Knowledge of Disaster Management</p> <p>PSO61. To understand the role of various factors in Disaster Management.</p> <p>PSO62. To Understand the emerging and recent trends in public administration.</p> <p>PSO63. To Know the Importance of Information Technology in Public Administration.</p> <p>PSO64. To introduce and provide knowledge of Right to Information Act.</p> <p>PSO65. To provide basic Knowledge of various modern administrative theories</p> <p>PSO66. To Understand the Views of Human Relation theory .</p> <p>PSO67. To Familiarize the students with basic Knowledge of modern administrative thoughts.</p> <p>PSO68.. To Understand the Role of Urban Local Government in Development of Nation.</p> <p>PSO69. Develop a Local Leadership in urban area.</p> <p>PSO70. To Understand the Role of urban local Institutions in urban development.</p> <p>PSO71. To develop of the basic Governing system to students.</p> <p>PSO72. To Introduce and Provides Knowledge of Non Government Organization and their Administration.</p> <p>PSO73. To understand the work of N.G.Os in Nation building.</p> <p>PSO74. The ability of Students to understand the Non Government organization and its works.</p>
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	<p>dependence 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.</p> <p>The urban local Institutions playing important 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.</p> <p>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. Citizens participation through NGOs make the administration responsive to the needs of the peoples. The focus of the course is on the NGOs , their functions and responsibilities.</p>	
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Courses offered:

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

S. No.	Course	Course outcome
01	B.A. F.Y.	<p>O 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 .</p> <p>O Paper- II: District Administration</p> <ol style="list-style-type: none"> 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.

		<p>O Paper- III: Administrative organization and its Principle</p> <ol style="list-style-type: none"> 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 .
		<p>O Paper- IV: Indian Administration</p> <ol style="list-style-type: none"> 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.	<p>O Paper- V: Personnel Administration</p> <ol style="list-style-type: none"> 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.
		<p>O Paper- VI: State Government & Administration</p> <ol style="list-style-type: none"> 1. It help the students to understand the system of State Government & Administration 2. Awareness of the basic State governing system 3. Exhibit the efforts for development in States.
		<p>O Paper- VII: Rural Development and Empowerment Programmes 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 suchas Zilla Parishad, Panchayat Samiti and Gram Panchayat. Due to the course the students will be motivated to develop interest towards rural development.</p> <ol style="list-style-type: none"> 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.
		<p>O Paper- VIII: Office Administration</p> <ol style="list-style-type: none"> 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 .
		<p>O Paper- IX: District Administration</p> <ol style="list-style-type: none"> 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.
		<p>O Paper- X: Application of E Governance and E-Devices in Administration</p> <ol style="list-style-type: none"> 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.

		Awareness of the basic E- administrative system as well as various issues in administration.
03	B.A.T.Y.	<p>O 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.</p> <p>O 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.</p> <p>O 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 Panchyat Raj Institutes as the main instrument of state to achieve its Rural developmental goals.</p> <p>O 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.</p> <p>O 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.</p> <p>O 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 Max Weber, Abraham Maslow about Human Relations Theory.</p> <p>O Paper- XVII: Urban Local Government in Maharashtra The utility of the course is to discuss and analyze the problems created due to urbanization and suggest possible solutions 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 panchayat, Nagar Parishad and Municipal Corporations. .Due to the course the students will be motivated to develop interest towards urban development of Maharashtra state.</p> <p>O 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.</p>

Programs offered: M. A. Geography

Sr. No.	Program	Program objective	Program Specific Objectives
	M. A. Geography	<p>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, Meteorological department, Survey of India and Educational institutes and in the various concerns of the Government of State and Central Government based on subject Geography.</p>	<p>SO: 01To familiarize the students with the understanding of the society through concepts and social theory, philosophical approaches and spatial processes.</p> <p>SO:02To examine the process of social region formats in India with the help of social cultural factors.</p> <p>SO:03To Understand diversity of cultures and its diffusion.</p> <p>To introduce GIS (Geographic Information System) as a tool of spatial science.</p> <p>SO:04To indicate the basic elements of GIS and methodology of GIS.</p> <p>To outline the steps and areas of application of GIS.</p> <p>SO: 05 The aim of this course is to introduce the students with the fundamentals of regional planning</p> <p>PSO: 06 To provide in depth knowledge about agriculture geography</p> <p>SO: 07 To nurture scientific and search approach among the students</p>

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

Sr. No.	Course	Course outcome
	F.Y. M. A. SEMESTER-I	<p>Chapter I Geomorphology</p> <ol style="list-style-type: none"> 1. The course will provide an understanding of the conceptual and dynamic aspects of landform development. 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
		<p>Chapter II Climatology</p> <ul style="list-style-type: none"> • 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.
		<p>Paper – III Economic Geography</p> <ul style="list-style-type: none"> • 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
		<p>Paper IV Practical</p> <ul style="list-style-type: none"> • 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. A. SEMESTER- II	<p>Paper V Oceanography</p> <ul style="list-style-type: none"> • Describing and analyzing the concepts of Oceanography • Understanding the variations of global hydrological cycle • Emphasizing the significance of groundwater quality and its circulation
		<p>Paper VI settlement Geography</p> <ul style="list-style-type: none"> • Understand the origin and Evaluation Settlements. • Know about different theories origin of Towns and 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.
		<p>Paper VII Political Geography</p> <ul style="list-style-type: none"> • 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
		<p>Paper VIII PRACTICAL-II</p> <ul style="list-style-type: none"> • Conducting field excursions and preparation of field report on research on problem in different areas of India. • Using statistical techniques in order to summarize, represent, analyze and interpret data

	M.A.S.Y SEMESTER-III	<p>Paper IX Geography of regional planning</p> <ul style="list-style-type: none"> Analyzing the concept of regions and regionalization. Studying the indicators of economic development
		<p>Paper X Biogeography</p> <ul style="list-style-type: none"> 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.
		<p>Paper XI Agricultural Geography</p> <ul style="list-style-type: none"> 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
		<p>Paper XII Practical in Human Geography</p> <ul style="list-style-type: none"> 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 SEMESTER-IV	<p>Paper XIII Population Geography</p> <ul style="list-style-type: none"> 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
		<p>Paper XIV Social and Cultural Geography</p> <ul style="list-style-type: none"> Explaining the concept and dynamics of human society. Analyzing the unity in the vast cultural background of India. Establishing the correlations between man and his natural and cultural landscape
		<p>Paper XV Geography of Maharashtra</p> <ul style="list-style-type: none"> 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.
		<p>Paper XVI Practical in Field work & Remote sensing.</p>

		<ul style="list-style-type: none"> • 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
		<p>Paper XVIII Project work</p> <ul style="list-style-type: none"> • 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. <p>Overall this paper gives research based knowledge</p>

Faculty of Science

Department Profile Chemistry

Programs offered: B.Sc. Chemistry

Sr. No.	Program	Program objective	Program Specific Objectives
	B.Sc. Chemistry		<ul style="list-style-type: none"> ▪ 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
2) S.Y. B.Sc. Chemistry
3) T.Y. B.Sc. Chemistry

S. No.	Course	Course outcome
1	Sc. F.Y.	<p>CCC-I (Section A), P-I: Organic + Inorganic Chemistry After completion of syllabus students will be able to understand following outcomes.</p> <ol style="list-style-type: none"> 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.
2	Sc. F.Y.	<p>CCC- I (Section B), P-II: Physical + Inorganic Chemistry After completion of syllabus students will be able to understand following outcomes.</p> <ol style="list-style-type: none"> 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.
3	Sc. F.Y.	<p>CCC II (Section A) P-III: Organic + Inorganic Chemistry After completion of syllabus students will be able to understand following outcomes.</p> <ol style="list-style-type: none"> 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. 7. To know the acids & Bases by different concepts.
4	Sc. F.Y.	<p>CCC- II (Section B), P-II: Physical + Inorganic Chemistry After completion of syllabus students will be able to understand following outcomes. To impart knowledge of atomic structure, different theories of</p>

		<p>atomic structure, rules of electronic configuration and quantum numbers.</p> <ol style="list-style-type: none"> Learning of properties of liquid phase as surface tension, Viscosity and parachor. Student will learn the basic knowledge of colloidal state, types, preparation, properties and applications of colloidal state. Learning and understanding of catalysis, types of catalysis and characteristics of catalyzed reactions. To understanding the chemical bond and its different types of bonds. Learning the Concept of hybridization and study of VSEPR & Molecular Orbital theory.
5		<p>CCCP-I Paper V (Practical): Practical's based on Section A & Section B of CCC-I & CCCC- II</p> <p>After completion of syllabus students will be able to understand following outcomes.</p> <ol style="list-style-type: none"> To impart knowledge of basic of chemistry practical. Learning of inorganic qualitative analysis Student will learn the basic knowledge of organic preparation and their method of preparation. Learning and understanding of Surface tension, Viscosity, Hardness. To understanding the basics of acid base titration. Learning the Concept of equivalent and molecular weight and their determination.
5	.SC. S. Y.	<p>CCC III (Section A) P-VI: Organic + Inorganic Chemistry</p> <p>After completion of syllabus students will be able to understand following outcomes.</p> <ol style="list-style-type: none"> Learn the mechanism of name reactions. Know the Synthesis and Reactions of Aromatic Carboxylic and Sulphonic acids. Know the Synthesis and Reactions of Organometallic compounds. Learn the synthesis, mechanism, applications of active methylene compounds. Gathering basic knowledge of Oils, Fats, Soaps and Detergents. Understand the basic principle and application of Qualitative Analysis. Know the Classification, Properties of Non- aqueous solvents.
7	.SC. S. Y.	<p>CCC III (Section B) P-VII: Physical + Inorganic Chemistry</p> <p>After completion of syllabus students will be able to understand following outcomes.</p> <ol style="list-style-type: none"> After completion of these courses students should be able to, Write an expression of Davisson-Germer experiment. Derive Schrodinger wave equation. Understand De-Broglie's hypothesis and uncertainty principle. Solve the numerical problems based on De-Broglie. Understand concept of entropy. Understand statements of first, second and third law of thermodynamics.

		<p>8. Know the meaning of phase, component and degree of freedom.</p> <p>9. Know the nuclear structure & different energy of nuclear.</p> <p>10. Understand the different steps & procedure in the gravimetric separation method.</p>
8	.SC. S. Y.	<p>CCC IV (Section A) P-VIII: Organic+ Inorganic Chemistry After completion of syllabus students will be able to understand following outcomes.</p> <ol style="list-style-type: none"> 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.
9	.SC. S. Y.	<p>CCC IV (Section B) P-IX: Physical + Inorganic Chemistry After completion of syllabus students will be able to understand following outcomes.</p> <ol style="list-style-type: none"> 1. Know the rate constant and factors affecting rate of reactions. 2. 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	.SC. S. Y.	<p>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</p> <ol style="list-style-type: none"> 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	.SC. S. Y.	<p>CCCP III (CCC III & IV, Section B) Practical based on P-VII & P-IX After completion of this course students should be able to,</p> <ol style="list-style-type: none"> 1. Calculate normality and strength of the solution using potentiometer and conductivity meter. 2. Find pka 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.
2	.Sc. T.Y.	<p>SEC- V (Section A) Organic + Inorganic Chemistry (P-XII) After completion of this course students should be able to,</p> <ol style="list-style-type: none"> 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
3	.Sc. T.Y.	<p>DSEC- V (Section B) Physical + Inorganic Chemistry (P-XIII) Understand the concepts of molecular Spectroscopy and its applications</p> <ol style="list-style-type: none"> 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
4	.Sc. T.Y.	<p>DSEC-VI (Section A) Organic & Inorganic Chemistry (P-XIV) After completion of syllabus students will be able to understand following outcomes.</p> <ol style="list-style-type: none"> 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
5	.Sc. T.Y.	<p>DSEC-VI (Section B) Physical & Inorganic Chemistry (P-XV) After completion of syllabus students will be able to understand following outcomes</p> <ol style="list-style-type: none"> 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 6. Describe the structures and functions of Metal Cluster
6	.Sc. T.Y.	<p>DSEC V & VI (Section-A) Organic + Inorganic Chemistry (P-XVI) After completion of syllabus students will be able to understand</p>

		<p>following outcomes</p> <ol style="list-style-type: none"> 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 5. To know the gravimetric estimation
7	.Sc. T.Y.	<p>DSEC V & VI (Section-B) Physical + Inorganic Chemistry (P-XVII)</p> <p>After completion of syllabus students will be able to understand following outcomes</p> <ol style="list-style-type: none"> 1. Determine the normality and strength of oxalic acid conductometrically 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

Zoology Department Profile

Programs offered: B.Sc. Zoology

No.	Program	Program objective	Program Specific Objectives
	B.Sc. Zoology	<p>aspire 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.</p>	<p>SO1. To provide through knowledge about various animal sciences from primitive to highly evolved animal groups.</p> <p>SO2. To make the students aware of applications of Zoology subject in various Industries.</p> <p>SO3. To highlight the potential of various branches to become an entrepreneur.</p> <p>SO4. To equip the students with skills related to laboratory as well as field based studies</p> <p>SO5. To make the students aware about conservation and sustainable use of Biodiversity.</p> <p>SO6. To inculcate interest and foundation for further studies in Zoology.</p> <p>SO7. To address the socio- economical challenges related to animal sciences.</p>

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

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

Course	Course outcome
B.Sc. F.Y.	<p>CO Paper- I: Biodiversity of Invertebrates</p> <ol style="list-style-type: none"> 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.
	<p>CO paper II: Biodiversity of Chordates</p> <ol style="list-style-type: none"> 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.
	<p>CO Paper – III. Comparative Anatomy of Vertebrates</p> <ol style="list-style-type: none"> 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.
	<p>CO Paper IV. Developmental Biology of Vertebrates</p> <ol style="list-style-type: none"> 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.
	<p>CO Paper V (Practical): Biodiversity of Invertebrates and Chordates & Comparative Anatomy and Developmental Biology of Vertebrates (Based on P-I, II, III & IV)</p> <ol style="list-style-type: none"> 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.

		<p>4. Students would be able to relate different bones and be able to articulate them to form an skeleton.</p> <p>5. Students would make observations of organisms in their natural environment and document them.</p>
	.SC. S. Y.	<p>O Paper VI- Physiology On successful completion of the course, the students will be able to</p> <ol style="list-style-type: none"> 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.
		<p>Co Paper VII Biochemistry On successful completion of the course, the students will be able to</p> <ol style="list-style-type: none"> 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
		<p>CO Paper – VIII Cell Biology and Genetics On successful completion of the course, the students will be able to</p> <ol style="list-style-type: none"> 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.
		<p>CO paper-IX Evolutionary Biology and Genetic Engineering</p> <ol style="list-style-type: none"> 1. Understand the theories and concepts of evolution. 2. Learn the process of evolution in animals. 3. Understand the patterns of evolutionary changes in animals. 4. Understand the organization and functions of genetic material in the living world. 5. Understand the Recombinant DNA Technology.
		<p>CO Paper X (Preactical) Physiology and Biochemistry (Practical based on P-VI & VII)</p> <ol style="list-style-type: none"> 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 operation of clinical procedures for blood & urine analysis.

		<p>CO Paper XI (Practical) Cell Biology, Genetics, Evolutionary Biology and Genetic Engineering (Practical based on P-VIII & IX)</p> <ol style="list-style-type: none"> 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.
	.Sc. T.Y.	<p>CO Paper XII Ecology And Zoogeography</p> <ol style="list-style-type: none"> 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).
		<p>CO Paper XIII Pisciculture:</p> <ol style="list-style-type: none"> 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. 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.
		<p>CO Paper XVI Ethology, Biometry And Bioinformatics</p> <ol style="list-style-type: none"> 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
		<p>CO Paper XV Aquaculture</p> <ol style="list-style-type: none"> 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

		<p>of fish and invertebrate fisheries.</p> <p>3. Students will be able to create awareness about manmade hazards to aquaculture.</p> <p>4. Students will know about the important species for public health.</p> <p>5. Students acquire knowledge of Mariculture.</p> <p>6. Students will be able to understand and appreciate the role of Government in aquaculture development.</p>
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Department of Botany

B.Sc. Programme Objectives

Sl. No.	Program	Program objective	Program Specific Objectives
	B.Sc. Botany	<p>Studying plant sciences prepares the student for a career working in either an educational institution or an industry in which can be directly involved in the research and development and Knowledge of modern and applied plant science and excellent career prospects.</p>	<p>PSO1. To expand and increase current knowledge about plants</p> <p>PSO2. to ensure up-to-date level of Understanding of plant sciences.</p> <p>PSO3. solve problems in many fields including agriculture, ecology, medicine, biotechnology and horticulture</p> <p>PSO4. To equip the students with skills related to laboratory as well as field based studies</p> <p>PSO5. To make the students aware about conservation and sustainable use of Biodiversity.</p> <p>PSO6. Develop aptitude towards science and nature and also undertakes the fundamental and applied research in plant science in the benefit of the human and nature.</p> <p>PSO7. To interact with each other which impact their physical environment</p> <p>PSO8. To facilitate students for taking students for their career development</p>

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

Sl. No.	Course	Course outcome
	B.Sc. F.Y.	<p>CO Paper- I: Viruses, Bacteria, Algae, Fungi, Lichens and Mycorrhiza</p> <p>1. to expose themselves to the diversity of life forms</p> <p>2. To make aware of Different life forms</p> <p>3. To apply ethical principles to plant science research</p> <p>4. To develop ability to identify and classify the organisms</p>

		<p>CO paper II: Plant Ecology, Phytogeography and Environmental Biology</p> <ol style="list-style-type: none"> 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 about biogeo chemical cycle.
		<p>CO Paper – III. Bryophytes, Pteridophytes, Gymnosperms & Paleobotany</p> <ol style="list-style-type: none"> 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.
		<p>CO Paper IV. Taxonomy of Angiosperms</p> <ol style="list-style-type: none"> 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.
		<p>CO Paper V Practicals based on Theory papers of CCB-I&II</p> <ol style="list-style-type: none"> 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.
	.SC. S. Y.	<p>CO Paper VI- Morphology and Taxonomy of Angiosperms</p> <p>On successful completion of the course, the students able</p> <ol style="list-style-type: none"> 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.
		<p>Co Paper VII Histology, Anatomy and Embryology of Angiosperms</p> <p>On successful completion of the course, the students will be able to</p> <ol style="list-style-type: none"> 1. Understand plant histology 2. Learn the aspects of plant anatomy. 3. Understand the principles of plant embryology 4. understand the processs of fruit and seed development
		<p>CO Paper – VIII Gymnosperms and Palaeobotany</p> <p>On successful completion of the course, the students will be able to</p> <ol style="list-style-type: none"> 1. Understand the differences between gymnosperms and angiosperms 2. Understand development, morphology and anatomy of gymnosperms. 3. Acquire knowledge on paleobotany. 4. Understand the aspects of fossilization.
		<p>CO paper-IX Ecology and Environmental Biology</p>

		<ol style="list-style-type: none"> 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 about biogeo chemical cycle.
		<p>CO Paper X Practicals based on Section-A Of CCB-III&IV</p> <ol style="list-style-type: none"> 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.
		<p>CO Paper XI Practicals Based on Section-B Of Ccb-III&IV</p> <ol style="list-style-type: none"> 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
	.Sc. T.Y.	<p>CO Paper XII Plant Physiology</p> <ol style="list-style-type: none"> 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
		<p>CO Paper XIII Plant Pathology-I</p> <ol style="list-style-type: none"> 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.
		<p>CO Paper XVI Plant Metabolism, Biochemistry and Biotechnology</p> <ol style="list-style-type: none"> 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
		<p>CO Paper XV Plant Pathology-II</p> <ol style="list-style-type: none"> 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.
		<p>CO Practicals based on theory papers- XII & XIV Students learn to determine osmotic potential</p>

		<ol style="list-style-type: none"> 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
		<p>CO Practicals based on theory papers- XIII & XV</p> <ol style="list-style-type: none"> 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

Department of Microbiology Programs offered: B.Sc. Microbiology

Sr. No.	Program	Program objective	Program Specific Objectives
	<p>B.Sc. Microbiology</p>	<p>aspire 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 thevarious concerning department of State and Central Government based on subject Microiology.</p>	<p>SO1. To provide through knowledge about various microbial diseases and their effects on humans.</p> <p>SO2. To make the students aware of applications of Microbiology subject in various pharma Industries,pathological labs.</p> <p>SO3. To highlight the potential of various branches of Microbiology to become an entrepreneur.</p> <p>SO4. To equip the students with skills related to laboratory as well as field based studies in the field of microbiology.</p> <p>SO5. To make the students aware about different useful microorganisms.</p> <p>SO6. To inculcate interest and foundation for further studies in Microbiology.</p> <p>SO7. To address the socio- economical challenges related to Microbial challenges.</p>

			SO8. 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

Course	Course outcome
F.Y.B.Sc. F.Y.	O 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 growth in 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 oven, 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.
S.Y.B.Sc. S. Y.	O Paper VI- APPLIED MICROBIOLOGY On successful completion of the course, the students will be able to 1. Sources and scope of microorganisms. 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

		<p>2. General properties of antigen, antigen specificity, bacterial antigens.</p> <p>3. Antigen antibody reactions.</p>
		<p>CO Paper – VIII Food, Soil Microbiology and Microbial Ecology</p> <p>On successful completion of the course, the students will be able to</p> <ol style="list-style-type: none"> 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.
		<p>CO paper-IX Medical Microbiology</p> <ol style="list-style-type: none"> 1. Students can understand Pathogenesis, Clinical features, laboratory diagnosis, epidemiology, treatment of cholera, typhoid etc. 2. Students can understand different infections.
		<p>CO Paper X (Preactical) Practical Paper: CCMBP II [CCMB III & IV (Section A)]</p> <ol style="list-style-type: none"> 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
		<p>CO Paper XI (Practical) Practical Paper: CCMBP III [CCMB III & IV (Section B)]</p> <ol style="list-style-type: none"> 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.
	.Sc. T.Y.	<p>CO Paper XII Microbial Genetics DSEMB I (Section A)]</p> <ol style="list-style-type: none"> 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.
		<p>CO Paper XIII Microbial Metabolism DSEMB I (Section B I)</p> <ol style="list-style-type: none"> 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 in bacteria.
		<p>CO Paper XIV: Molecular Biology DSEMB II (Section A)</p> <ol style="list-style-type: none"> 1. Students will be understand Gene expressions. 2. Students will be understand DNA repair. 3. Student will understand gene regulation. .

		<p>CO Paper XV:Industrial Microbiology DSEMB II (Section B I)</p> <ol style="list-style-type: none"> 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 techniques
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Departmental Profile

Programs offered: B.Sc. Environmental Science

Sl. No.	Program	Program Objective	Program Specific Objectives
	B.Sc. Environmental Science	<ul style="list-style-type: none"> ➤ Enable to understand key concepts in the life and physical sciences and will apply the scientific process, as well as appreciate both the potential and limitations of the process. ➤ To make able to utilise knowledge of the sciences within an interdisciplinary context in solving environmental issues such as environmental health, food and agriculture, energy, waste and pollution, climate change, population, resource management, and loss of biodiversity. ➤ To aware about the environmental problems, and the proposed solutions. ➤ Inspire the students for pursuing higher studies in Environmental Science and also enable students to get employed in the I research Institutes Industries, Educational Institutes and in the various consultancies run by NGO's 	<ol style="list-style-type: none"> 1. Students will assess necessary scientific concepts and data, consider likely social dynamics, and establish integral cultural contexts. 2. Students will able to solve problems systematically, creatively, and reflexively, ready to assemble knowledge and formulate strategy. 3. Students will have mastered foundational knowledge enabling them to make sound life decisions as well as enter a career in an environmental professions 4. Students will continue to evolve an individual vision of harmonious and sustainable interaction among humans as well as between humans and the rest of the natural world

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

Sl. No.	Course	Course outcome
	B.Sc. F.Y.	<p>CO Paper- I: CCENV-I Section A : Earth and Earth Surface Processes</p> <p>reamble : The content of the paper will acquainted to students about the basic ructure and composition of the Earth and will explore various</p>

		<p>urface processes.</p> <ol style="list-style-type: none"> 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.
		<p>O paper II: CCENV-I Section B : Basic Science and Environment</p> <p>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.</p> <ol style="list-style-type: none"> 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.
		<p>O Paper – III CCENV-II Section A : Developments in Environment</p> <p>The contents of this paper will covers the conceptual understanding of students by exposing them to the natural processes and developments in environment. The paper has been divided into Three sections, with the view to introduce students to the concepts of universe, earth and atmospheric movements.</p> <ol style="list-style-type: none"> 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.
		<p>O Paper IV. CCENV-II Section B : Issues in Environment</p> <p>The course examines the relationship between the environment and social issues enabling the students to understand and appreciate the role played by the environment and society and their interface in shaping environmental decisions. The students will be enabled to think critically on Environmental issues.</p> <ol style="list-style-type: none"> 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.

	.Sc. S. Y.	<p>O Paper VI- CCENV III (Section A) basic concepts in Environmental Microbiology aim of this paper to know about the microbes, their life and their relationship with environment students will come to know about Diversity and Scope of Microbes and its Importance, Microscopy and Staining, Classifications and different environmental factors</p>
		<p>O Paper VII_CCENV III (Section B) Air pollution and Meteorology The course examines the Atmosphere & Meteorology ,Structure of Atmosphere, Economic effects of Air Pollution. students will understand Atmosphere & Meteorology Types of Air Pollutants and Their Sources ,Mechanism of action of air pollutants, effects of Air pollution on Plants:</p>
		<p>O Paper – VIII CCENV IV (Section A) Applied Environmental Microbiology acquaint the students about the Methods in Microbiology, Concept of Sterilization and sources of microbes and its applications in various Environmental processes students will understand the microbes , its applications and will able to develop the Microbial techniques to use in various environmental processes</p>
		<p>CO paper-IX CCENV IV (Section B) Air and Noise Pollution Control The course content examines the Ambient Air Pollutants , Noise Pollution and various Control techniques students will come to know about Ambient Air Pollutants Sampling, Analysis and Measurement: Noise Pollution: Sources of Noise, effects of Noise Pollution and control measure</p>
	.Sc. T.Y.	<p>O Paper XII DECENV I (Section A) Water pollution and Waste water Analysis to understand scientific reasons of point and non point source of water pollutants which enable to give correct suggestions for it's 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</p>
		<p>O Paper XIV DECENV [(Section – B) Elective – II]: 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</p>
		<p>O Paper - XVI DECENV II (Section A) 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 /</p>
		<p>condary / tertiary treatment</p>

		<p>O Paper – XVIII DECENV II [(Section B) Elective II]: Environmental Management</p> <p>to understand various movements of environmental protection management through software tools and environmental laws.</p> <p>Students will understand the principles of environmental management and various historical movements in environmental protection. And various laws and legislations of environmental protection</p>
SKILL ENHANCEMENT COURSES B.Sc.II and III YEAR		
	1. Skill Enhancement Course	<p>CENV-I (A) Soil Testing Analyst</p> <p>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</p> <p>Soil testing or similar topics that provide information about soil</p> <p>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.</p>
	Skill Enhancement Course	<p>CENV II (Section B) Composting from Solid Waste</p> <p>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.</p> <p>Soil testing analyst will able to Use of instruments and their general maintenance, interpretation of analytical data and formulation of reports/recommendations</p>
	Skill Enhancement Course	<p>ECENV III Paper - XV Soil conservation Practices</p> <p>The main objective of the course is to imbibe the importance of soil and its development.</p> <p>Student will acquire the soil management skill, will know how to check the nutrient contents, deficiencies and its impact on food</p>
	Skill Enhancement Course	<p>ECENVP- IV Paper - XXII Training course on waste water Analysis</p> <p>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.</p> <p>This course is designed to train students to safely and effectively operate advanced wastewater treatment plants in future</p>

Department of Physics

Programs offered: B.Sc. Physics

S. No.	Program	Program objective	Program Specific Objectives
	Sc. Physics	Inspire the students for pursuing higher studies in Physics and for becoming an entrepreneur and also enable students to get employed in the Physical Sciences research institutes, Industries, Educational Institutes and in the various concerning department of State and Central Government based on subject Physics.	<p>PSO1. To provide thorough knowledge about various basic laws in Physics</p> <p>PSO2. To understand the basic laws of nature and develop necessary skills to apply them to the advanced areas of studies.</p> <p>PSO3. To highlight the potential of various branches to become an entrepreneur.</p> <p>PSO4. To equip the students with skills related to laboratory as well as field based studies.</p> <p>PSO5. To provide the students with the first hand do it yourself kind of training and enable them to understand the Physics principles at deeper level. This also enables the students to develop their keen interest in studying Physics.</p> <p>PSO6. To inculcate interest and foundation for further studies in Physics.</p> <p>PSO7. To help the students to develop their skills through hands-on activities as they progress in the program</p> <p>PSO8. To facilitate students for taking up and shaping a successful career in Physics.</p>

Courses offered:

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

S. No.	Course	Course outcome
	Sc. F.Y.	<p>CO Paper- I: Mechanics and properties of matter</p> <ol style="list-style-type: none"> 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. 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. 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

		<ol style="list-style-type: none"> 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
		<p>CO Paper – III. Heat and Thermodynamics</p> <ol style="list-style-type: none"> 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.
		<p>CO Paper IV. Electricity and Magnetism</p> <ol style="list-style-type: none"> 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.
		<p>CO Paper V (Practical): Laboratory Course</p> <ol style="list-style-type: none"> 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.
	.SC. S. Y.	<p>O Paper VI- Waves and Oscillations</p> <ol style="list-style-type: none"> 1. The students will be able to understand the concepts of mechanical waves, their properties, propagation and

		<p>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.</p> <ol style="list-style-type: none"> 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
		<p>Co Paper VII– Statistical Physics, Electromagnetics and theory of Relativity</p> <ol style="list-style-type: none"> 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.
		<p>CO Paper – VIII– Optics and Lasers</p> <ol style="list-style-type: none"> 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 and 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.
		<p>CO paper-IX– Basic Electronics After completing this course students will be able to</p>

		<ol style="list-style-type: none"> 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.
		<p>CO Paper X (Practical) Laboratory Course (Practical based on P-VI & VII)</p> <ol style="list-style-type: none"> 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.
		<p>CO Paper XI (Practical) – Laboratory Course (Practical based on P-VIII & IX)</p> <ol style="list-style-type: none"> 1. 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. 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.
	.Sc. T.Y.	<p>CO Paper XII - Quantum Mechanics</p> <ol style="list-style-type: none"> 1. 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. 2. 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. 3. The pre-requisite for this course is knowledge of calculus, wave theory and modern physics. 4. 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.

		<p>CO Paper XIII – A – Solid State Physics</p> <ol style="list-style-type: none"> 1. This course provides fundamental knowledge of the crystallography, principles behind the formation of matter, their structure and physical properties. 2. 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. 3. 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.
		<p>CO Paper XIV - Atomic , Molecular and Nuclear Physics</p> <ol style="list-style-type: none"> 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.
		<p>CO Paper XV– Digital and Communication Electronics</p> <ol style="list-style-type: none"> 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.
		<p>CO Paper XVI – (Physics Practical) – Laboratory Course</p> <ol style="list-style-type: none"> 1. The students will be able to perform different spectroscopic practicals like determining the resolving power, Rydberg’s constant, wavelength of Hα line in the hydrogen spectrum.
		<p>CO Paper XVII - A – (Physics Practical) – Laboratory Course</p> <ol style="list-style-type: none"> 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

S. No.	Program	Program objective	Program Specific Objectives
	B.Sc. Electronics	Inspire the students for pursuing higher studies in Electronics and for becoming an	<p>SO1. To provide through knowledge about various electricity principles</p> <p>SO2. To make the students aware of</p>

		<p>entrepreneur and also enable students to get employed in the electrical research institutes, Industries, educational Institutes and in the various concerning department of State and Central government based on subject Electronics.</p>	<p>applications of Electronics subject in various Industries.</p> <p>PSO3. To highlight the potential of various branches to become an entrepreneur.</p> <p>PSO4. To equip the students with skills related to laboratory as well as field based studies</p> <p>PSO5. To introduce learners to fundamental concepts of electronics, basic components, semiconductor devices, digital electronics, working and uses of some indispensable laboratory instruments.</p> <p>PSO6. To inculcate interest and foundation for further studies in Electronics.</p> <p>PSO7. To address the socio-economical challenges related to electrical sciences.</p> <p>PSO8. To facilitate students for taking up and shaping a successful career in Electronics.</p>

Courses offered:

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

S. No.	Course	Course outcome
	B.Sc. F.Y.	<p>CO Paper- I: Basic Electronics and Network Analysis</p> <p>After completion of this course students will be –</p> <ol style="list-style-type: none"> 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.
		<p>CO paper II: Basic Digital Electronics</p> <p>After completion of this course students will be –</p> <ol style="list-style-type: none"> 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.
		<p>CO Paper – III. Semiconductor Devices and Electronic Instruments</p> <p>After completion of this course students will be –</p> <ol style="list-style-type: none"> 1. able to understand I-V characteristics of various semiconductor diodes. 2. able to understand input/output characteristics of transistor.

		<p>3. able to distinguish between unregulated & regulated power supply and its significance.</p> <p>4. able to demonstrate the use of multi-meter & CRO</p>
		<p>CO Paper IV. Digital Logic Circuits After completion of this course students will be –</p> <ol style="list-style-type: none"> 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.
		<p>CO Paper V (Practical): Laboratory Course Work(Based on P-I,II,III&IV)</p> <ol style="list-style-type: none"> 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.
	.SC. S. Y.	<p>CO Paper VI- Amplifiers</p> <ol style="list-style-type: none"> 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.
		<p>Co Paper VII- Microprocessor and Its Applications</p> <ol style="list-style-type: none"> 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.
		<p>CO Paper – VIII Oscillators and Multivibrators</p> <ol style="list-style-type: none"> 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.
		<p>CO paper-IX- Introduction to Microcontroller Intel 8051</p> <ol style="list-style-type: none"> 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.
		<p>CO Paper X (Practical) Laboratory Course (Practical based on P-VI & VIII)</p> <ol style="list-style-type: none"> 1. Students will be able to design , build and study various electronic circuits like amplifiers , oscillators, multivibrators etc.
		<p>CO Paper XI (Practical) Laboratory Course (Practical based on P-VII & IX)</p> <ol style="list-style-type: none"> 1. Students will be able to write and perform various programs

		of microprocessor and microcontroller.
	.Sc. T.Y.	CO Paper XII -Communication Electronics-I 1. Will be able to understand basics of communication 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 XIII A - 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

S. No.	Course	Course outcome
1	.Sc. F.Y.	Paper – I Differential calculus 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 infinite 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.
2	.Sc. F.Y.	Paper II: Algebra and Trigonometry After successful completion of the course student will be

		<p>able to</p> <ol style="list-style-type: none"> 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.
3	.Sc. F.Y.	<p>Paper III: Calculus-II (Integral Calculus)</p> <p>After successful completion of the course student will be able to</p> <ol style="list-style-type: none"> 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.
4	.Sc. F.Y.	<p>Paper IV: (Geometry)</p> <p>After successful completion of the course student will be able to</p> <ol style="list-style-type: none"> 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.
5		<p>CCCP-I Paper V (Practical): Practical's based on Section A & Section B of CCC-I & CCCC- II</p> <p>After completion of syllabus students will be able to understand following outcomes.</p> <ol style="list-style-type: none"> 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.
	.Sc. F.Y.	Paper V: (PRACTICAL PAPER)

		<p>After successful completion of the course student will be able to</p> <ol style="list-style-type: none"> 1. Verify 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 different functions with the help of MATLAB software and related Freeware.
5	.SC. S. Y.	<p style="text-align: center;">Paper VI: Real Analysis-I</p> <p>Outcomes:</p> <p>After successful completion of the course student will be able to</p> <ol style="list-style-type: none"> 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 general principle of convergence 6. Use the results to solve some problems. 7. Understanding the difference between different types of sequences, series, and comparison tests.
7	.SC. S. Y.	<p style="text-align: center;">Paper VII: Group Theory</p> <p>After successful completion of the course student will be able to</p> <ol style="list-style-type: none"> 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.
8	.SC. S. Y.	<p style="text-align: center;">Paper VIII: Ordinary Differential Equations</p> <p>After successful completion of the course student will be able to</p> <ol style="list-style-type: none"> 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.

		<ol style="list-style-type: none"> 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
9	.SC. S. Y.	<p>Paper IX: Real Analysis-II After successful completion of the course student will be able to</p> <ol style="list-style-type: none"> 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 integral with other improper integral to decide whether improper integral converge or diverge 12. Use the results to solve some problems.
0	.SC. S. Y.	<p>Paper X: Ring Theory After successful completion of the course student will be able to</p> <ol style="list-style-type: none"> 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.

		<p>4. Check whether given two rings are isomorphic or not.</p> <p>5. Check whether the given ideal of a ring is a principal ideal or not.</p> <p>6. Understand the concepts on principal ideal ring</p> <p>7. Understand concepts on Euclidean rings.</p>
1	.Sc. S. Y.	<p style="text-align: center;">Paper XI: Partial Differential Equations</p> <p style="text-align: center;">After successful completion of the course student will be able to</p> <ol style="list-style-type: none"> 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. 6. Solve problem using boundary conditions.
5	.Sc. T.Y.	<p>1) Utility of Syllabus:</p> <ol style="list-style-type: none"> 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. <p>2) Learning Objectives of Syllabus:</p> <ol style="list-style-type: none"> 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

		<p>for furthering their potential and capabilities in the subject.</p> <p>vii) Introducing advanced theories in the subject in an orderly manner with a clearly defined path of interdependence.</p> <p>viii) Introducing the specializations in different areas of Mathematics and at the same time emphasizing the underlying interconnections in different branches of Mathematics.</p> <p>ix) Generating more interest in the subject and motivating students for self learning beyond the realm of syllabi and examinations.</p> <p>x) Inculcating the spirit of inquiry among the students and preparing them to take up the research in Mathematics.</p> <p>xi) Exhibiting the wide range of applications of Mathematics and preparing students to apply their knowledge in diverse</p>
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Department of Computer Science

Sl. No.	Course	Course outcome
1	.Sc. F.Y.	<p>Paper No. I Programming Logic Concepts</p> <p>Course Objectives:</p> <ol style="list-style-type: none"> 1. To develop understanding of problem solving using computers 2. To develop understanding of basic data structures such as arrays <p>Course Outcome:</p> <ol style="list-style-type: none"> 1. Student will be able to design algorithms to solve different problems 2. Student will understand how to solve problems using computer
2	.Sc. F.Y.	<p>Paper No. II Designing of Web Pages Using HTML</p> <p>Course Objectives:</p> <ol style="list-style-type: none"> 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 <p>Course Outcome:</p> <ol style="list-style-type: none"> 1. Be able to <i>use</i> the HTML programming language 2. Understand the principles of creating an effective web page.
3	.Sc. F.Y.	<p>Paper No.III Introduction to Data Structure</p> <p>Course Objectives:</p> <ol style="list-style-type: none"> 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 <p>Course Outcome:</p> <ol style="list-style-type: none"> 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.
4	.Sc. F.Y.	<p>Paper No. IV Programming in C Language</p> <p>Course Objectives:</p> <ol style="list-style-type: none"> 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. <p>Course Outcome:</p> <ol style="list-style-type: none"> 1. Course is designed to provide complete knowledge of C language to develop logics which will help them to create programs, applications in C. 2. Introduces the more advanced features of the C language.
5	.Sc. F.Y.	<p>Practical (Annual) : Paper No.V</p> <p>Practical Based On Theory Papers – II & IV</p> <p>Course Objectives:</p> <ol style="list-style-type: none"> 1. To familiarize the students to the practical HTML, DHTML and JavaScript 2. 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. <p>Course Outcome:</p> <ol style="list-style-type: none"> 1. Practical approach to understand the principles of creating an 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,
5	.SC. S. Y.	<p>Paper No.VI Operating System</p> <p>Course Objectives:</p> <ol style="list-style-type: none"> 1. To learn fundamentals of Operating System, 2. To understand the structure and organization of the file system, 3. To learn mechanism of OS. <p>Course Outcome:</p> <p>Students will be able to the basic components of a computer Operating System.</p>
7	.SC. S. Y.	<p>Paper No. VII</p> <p>Object Oriented Programming using C++</p> <p>Course Objectives:</p> <ol style="list-style-type: none"> 1. To understand how C++ improves C 2. To learn OOPS concepts 3. To learn how to design C++ classes for code reuse. <p>Course Outcome:</p> <p>Upon compilation of this course, students will able to do programming independently and will also be able to built small applications.</p>
8	.SC. S. Y.	<p>Skill Enhancement Course-I:</p> <p>A) PROGRAMMING USING SCILAB</p>

		<p>OR</p> <p>B) NETWORKING CONCEPTS</p> <p>Skill Enhancement Course-I: 204 (A) PROGRAMMING USING SCILAB</p> <p>Course Objectives: To learn basic functioning in SCILAB.</p> <p>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.</p>
	.SC. S. Y.	<p>Skill Enhancement Course-I: 204 (B) PC Installation & Networking Course</p> <p>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.</p> <p>Course Outcome: Students would have knowledge of computer hardware and peripherals , their installation, PC assembly, trouble shooting.</p>
	.SC. S. Y.	<p>Paper No. VIII Computer Networks</p> <p>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.</p> <p>Course Outcome: Students would be able to chose, escalate and establish a computer network</p>
	.SC. S. Y.	<p>Paper No. IX Java Programming</p> <p>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.</p> <p>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.</p>
	.SC. S. Y.	<p>Paper No. SEC-II</p> <p>Skill Enhancement Course-II:</p>

		<p>(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</p>
	.SC. S. Y.	<p>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 publication of digital technologies. Course Outcome: Student will be able to use essential skills for digital media</p>
	.SC. S. Y.	<p>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</p>
2	.Sc. T.Y.	<p>aper No. XII Software Engineering After completion of this course students should be able to, 1 Understand Software Engineering Process. 2 Understand Requirements and components of Software Engineering. 3 Understand software design and software testing fundamentals.</p>
3	.Sc. T.Y.	<p>aper No. XIII [A] Visual Programming 1 To learn Graphical User Interface Language.</p>

		<p>2 To develop an application using GUI Language.</p> <p>3 Implement VB programs to solve simple problems.</p>
.Sc. T.Y.		<p>Paper No. XIII [B] Cloud Computing</p> <p>1 To Study basics of cloud computing, and comprehend the terminology, tools and technologies associated with today's top cloud platforms.</p> <p>2 To provide the programmer's perspective of working of Cloud Computing.</p> <p>3 Implement Simple Cloud programs to solve simple problems.</p>
.Sc. T.Y.		<p>Skill Enhancement Course-III (SECCS-III)</p> <p>Data Mining</p> <p>1 To create awareness about self-employment and motivate the students to go for self-employment by becoming Data Analytics.</p> <p>2 To familiarize the students to the practical world of business data processing and decision making.</p>
.Sc. T.Y.		<p>Laboratory Course Work- IV</p> <p>Paper No. XVI</p> <p>Practical Based on theory papers – XII & XIII</p> <p>Give hands on training to the students and make them acquainted with various Real time Applications implemented currently in the Industry.</p> <p>at least 20 practical sessions based on paper no XII and XIII.</p>
.Sc. T.Y.		<p>Paper No. XIV</p> <p>Relational Database Management Systems & PL/SQL</p> <p>1 To learn Relational Database Management system and database languages.</p> <p>2 To learn Relational Algebra and Calculus.</p> <p>3 To study Integrity Constraints and PL/SQL</p> <p>4 To develop an application using PL/SQL.</p>
.Sc. T.Y.		<p>Paper No. XV [A] Computer System Security</p> <p>1 The Course shall introduce the Computer System Security Concepts and its use in the Information Technology industry.</p> <p>2 It also elaborates on various types of attacks and their mitigation.</p> <p>Paper No. XV [B]</p> <p>E-Commerce</p> <p>To learn Electronic Commerce market place and Internet.</p> <p>1 Understand Electronic Data Interchange.</p>
.Sc. T.Y.		<p>Skill Enhancement Course-IV (SECCS-IV)</p> <p>Office Automation Tools</p> <p>1 Seek Jobs in emerging BPO/IT Support Sector.</p> <p>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 perform presentation skills</p>
.Sc. T.Y.		<p>Skill Enhancement Course-IV (SECCS-IV)</p> <p>Android Programming</p>

		<p>1 This course shall build a platform for students to start their own enterprise</p> <p>2 To gain an understanding of the processes that are involved in an Android developed application</p> <p>3 To become familiar with Android development tools and user interface.</p> <p>4 Ability to build two simple apps that you can share with your friends</p>
	B.Sc. T.Y.	<p>Laboratory Course Work- V</p> <p>Paper No. XVII</p> <p>Give hands on training to the students and make them acquainted with various Real time Applications implemented currently in the Industry.</p>

Programs offered: M.Sc. Zoology

S. No.	Program	Program objective	Program Specific Objectives
	B.Sc. Zoology	<p>1) Be able to play leading role in industry, research and the public services;</p> <p>2) Understand and appreciate major public concerns and issues associated with Zoology;</p> <p>3) Have an understanding and grasp of international research environment where the frontiers of knowledge in Zoology are under research;</p> <p>4) Be able to adapt and respond positively and flexibly to changing circumstances;</p> <p>5) Develop the professional skills and personal attributes to deal with complex issues, both systematically and creatively;</p> <p>6) Have the capacity for individual work and teamwork;</p> <p>7) Be lifelong learners with intellectual and practical skills.</p>	<p>SO1. To expose students to updated curricula and to recent advances in the subject and enable the students to face NET, SET and other competitive examinations successfully.</p> <p>SO2. To create awareness among students about the latest streams of life sciences including biotechnology, tissue culture, genetic engineering and bioinformatics.</p> <p>SO3. To improve the quality of laboratory and field work for which zoological study tours and excursions have been made compulsory so that the students can become familiar with field status of ecosystem and surrounding study.</p> <p>SO4. To prepare students to attract and develop interest in applied parasitology, animal physiology, genetics, cell biology, fisheries science, toxicology so that the students can select zoology as their career.</p> <p>SO5. To make the students aware about conservation and sustainable use of Biodiversity.</p> <p>SO6. To inculcate interest and foundation for further studies in Zoology.</p> <p>SO7. To address the socio-</p>

			economical challenges related to animal sciences. PSO8. To facilitate students for taking up and shaping a successful career in Zoology.

Courses offered: M.Sc. I Year Zoology, .M.Sc. II Zoology

S. No.	Course	Course outcome
	B.Sc. F.Y. Semester- I	Paper I: Invertebrates: Structure and Function <ol style="list-style-type: none"> 1. Classify animals from different groups based on their features. 2. Explain the similarity and differences in structure and function of organs in different groups of animals. 3. Understanding about importance of integument and skeletal systems. 4. Compare the functional morphology different groups of invertebrates.
		Paper: Lab Course - I: Invertebrates: Structure and Function
		Paper II: Biosystematics, Taxonomy and Evolution <ol style="list-style-type: none"> 1. Classify animals from different groups based on their features. 2. Describe different taxa and elaborate on their anatomical and morphological features. 3. Identify and describe homologies between different groups of animals. 4. Identify and access taxonomic information in different online databases. 5. Describe evolutionary relationship between different taxa. 6. Explain about evolutionary distance between different taxa. 7. Infer phylogenetic information and prepare phylogenetic trees.
		Paper: Lab Course - II: Biosystematics, Taxonomy and Evolution
		Paper III: Economic Zoology and Animal Behavior <ol style="list-style-type: none"> 1. Identify animal pathogenic diseases in humans and suggest remedial measures. 2. Evaluate and describe the economic impact of animals on human society. 3. Describe different culture methods relevant to aquaculture. 4. Identify and describe economically important fish and other animals. 5. Identify and explain different types of behavior patterns in animals. 6. Describe the importance of different behaviors in animal husbandry.
		Paper: Lab Course - III: Economic Zoology and Animal Behavior
		Paper IV(Elective): Quantitative Biology and Bio-Informatics <ol style="list-style-type: none"> 1) Describe different methods of data handling using computers.

		<p>2) Feed and tabulate raw data using computer.</p> <p>3) Explain and perform data representation using digital methods.</p> <p>4) Access and download relevant information from different online databases of biological information.</p> <p>5) Perform basic operations of gene sequence retrieval and compare them using different software.</p> <p>6) Perform basic operations of protein structure retrieval and comparison using different software</p>
		Paper: Lab Course – IV(Elective): Quantitative Biology and Bio-Informatics
		Paper V Seminar
	I.S.C. S. Y. Semester- II	<p>Paper VI: Animal Ecology, Toxicology and Environmental Pollution</p> <p>1. Describe the role of different gases in greenhouse effect.</p> <p>2. Identify and suggest remedial measures to deal with different types of pollution.</p> <p>3. Identify and describe adaptations of animals to different ecosystems.</p> <p>4. Suggest and develop conservation and management strategies for a particular ecological problem.</p>
		Paper: Lab Course - VI: Animal Ecology, Toxicology and Environmental Pollution
		<p>Paper VII: Gamete Biology and Animal Development</p> <p>1. Understand and describe the different developmental processes.</p> <p>2. Describe different techniques and methods used in experimental embryology.</p> <p>3. Elaborate on metamorphosis and regeneration in various and relate these processes to abnormalities in animals.</p> <p>4. Identify and evaluate application of different ART techniques to different infertility conditions.</p> <p>5. Describe different types of infertility in humans.</p>
		Paper: Lab Course - VII: Gamete Biology and Animal Development
		<p>Paper VIII: Biochemistry and Immunology</p> <p>1. Describe the structure and working of different components of vertebrate immune system.</p> <p>2. Elaborate about the innate and adaptive immune responses in vertebrates.</p> <p>3. Describe the different immunological disorders found in man.</p> <p>4. Explain the different techniques in immunology</p> <p>5. Elaborate about structure and application of antibodies in clinical therapy and biological research.</p>
		Paper: Lab Course - VIII: Biochemistry and Immunology
		<p>Paper IX (Elective): Pathobiology & Medical Zoology</p> <p>1. Explain about the different pathogens causing disease in man.</p> <p>2. Describe the different parasites causing disease and disability in man and animals.</p> <p>3. Ability to elaborate about the life cycle and biology of disease carrying vectors; suggest preventive and control measures for the said diseases.</p>

		4. An understanding of the relationship between changes in physiology of host and progress of pathogenesis in human beings and animals.
		Paper: Lab Course - IX(Elective): Pathobiology/ Medical Zoology
		Paper X- Seminar
	I.S.C. II Year Semester- III	Paper- XI: VERTEBRATES- STRUCTURE AND FUNCTION 1. Able to explain the broad classification of vertebrates based on features. 2. Describe relation between organ systems in different vertebrate groups. 3. Explain the significance of integument and skeletal systems of vertebrates. 4. Compare the structural and functional morphology of vertebrates.
		Laboratory Course- XI- VERTEBRATES: STRUCTURE AND FUNCTION
		Theory Paper- XII: MOLECULAR CELL BIOLOGY 1. Elaborate about contemporary developments in the field of molecular biology. 2. Explain the differences between prokaryotes and eukaryotes. 3. Describe the processes of cell communication and carcinogenesis. 4. Learn about latest in gene and genome structure, functions and organization.
		Laboratory Course: XII- MOLECULAR CELL BIOLOGY
		Paper- XIII-B Fishery Science- I Fish Morphology, Anatomy and Physiology- I 1. Explain the inter-relation between different groups of fish. 2. Be able to identify and broadly classify fish. 3. Appreciate the relation between environment and feeding and digestion in fish. 4. Describe the respiratory mechanisms in different groups of fish. 5. Explain the significance of biological rhythms in fish growth and reproduction.
		Laboratory Course- XIII-B: Fish Morphology, Anatomy and Physiology- I
		Theory Paper- XIV-B Fishery Science- II: Fish Morphology, Anatomy and Physiology- II 1. Ability to describe the structure and functions of the nervous & reproductive systems. 2. Elaborate the migration patterns, growth & age determination methods of fish species. 3. Describe the specialized organs like swim bladder, electric & acoustic organs in fish. 4. Explain the working of endocrine and venom glands in fish.
		Laboratory Course XIV-B: Fishery Science- II
		Theory Paper - XV: Seminar
	I.S.C. II Year Semester- IV	Theory Paper - XVI Genetics and Genetic Engineering 1. Explain the principles of Mendelian inheritance. 2. Describe gene and chromosomal inheritance and their disorders.

		<p>3. Elaborate about different tools and techniques used in recombinant DNA technology.</p> <p>4. Discern the different tools used in cloning and gene transfer technology.</p>
		Laboratory Course XVI- GENETICS AND GENETIC ENGINEERING
		<p>Theory Paper - XVII Mammalian Endocrinology</p> <p>1. Appreciate the nature, functions and classification of hormones.</p> <p>2. Describe general structure and functions of endocrine glands in mammals.</p> <p>3. Trace the relation between pituitary and other endocrine glands.</p> <p>4. Elaborate about endocrine role of adrenal, pancreatic and pineal tissue in humans.</p> <p>5. Explain about functions of gastro-intestinal and reproductive hormones in humans. 6. Elaborate about the different endocrine disorders in humans.</p>
		Laboratory Course XVII: MAMMALIAN ENDOCRINOLOGY
		<p>Theory Paper XVIII-B Fishery Science – I Fisheries and Fish Culture – I</p> <p>1. Knowledge of capture and culture fishery practices of India and methods adopted.</p> <p>2. Suggest design and management procedures for a fish farm. 3. Carry out artificial fish breeding and weed control in a fish farm.</p> <p>4. Identify various fish diseases and suggest treatments.</p> <p>5. Elaborate about different fish preservation methods.</p> <p>6. Evaluate suitability of different fish for making by-products.</p>
		Laboratory Course XVIII-B: Fisheries and Fish Culture- I
		<p>Theory Paper XIX-B Fishery Science – II Fisheries and Fish Culture – II</p> <p>1. Describe the fishery resources of India.</p> <p>2. Knowledge about culturable organisms and different culture methods.</p> <p>3. Identify and assess the anthropogenic threats to fishery industry.</p> <p>4. Knowledge of marine capture and culture fishery of India and legislative framework to regulate it.</p>
		Laboratory Course XIX-B: Fisheries and Fish Culture- II
		Theory Paper - XX: Seminar

P.G. Department of Marathi Programme offered: M.A. Marathi

Sr. No.	Program	Program objective	Program Specific Objectives
	M.A. Marathi	<p>पदवी शिक्षणानंतर विद्यार्थी पदव्युत्तर महाविद्यालयीन शिक्षण घेतांना ऐश्विक मराठी हा विषय अधिक स्वरुपात ज्ञान मिळावा ही अपेक्षा असते.</p> <p>विद्यार्थ्यांमध्ये भाषीक गोडी</p>	<p>PSO1. मराठी वाङ्मयाचा इतिहास अभ्यासताना मराठी साहित्य आणि संस्कृती जोपासण्यासाठी विवेक जागा होतो.</p> <p>PSO2. मानवी भाषा आणि साहित्य याचे</p>

		<p>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.</p>	<p>ऋणानुबंध लक्षात येते.</p> <p>PSO3. वाङ्मय प्रकाराचे महत्व अधोरेखित होते.</p> <p>PSO4. मराठी विषय घेतलेल्या विद्यार्थ्यांना प्रसार माध्यमे यांचा उपयोजन लक्षात घेऊन तो भाषिक कौशल्ये आत्मसात करतो.</p> <p>PSO5. समाजजीवनातील बारीक-सारीक गोष्टी निरीक्षणातून सर्जनशील तिची निर्मिती होते.</p>

Courses offered: F.Y.M.A. Marathi, S.Y.M.A.


Sr. No.	Course	Course outcome
	M.A. F.Y.	<p>CO Paper- I: स्वातंत्र्यपूर्व काळातील मराठी वाङ्मयाचा इतिहास.</p> <p>१) मराठी साहित्याचा अभ्यास करण्यासाठी अभिरुची निर्माण झाले.</p> <p>२) आधुनिक मराठी वाङ्मयाच्या इतिहासातील परंपरा लक्षात आली.</p> <p>३) विविध वाङ्मय प्रकाराचा उद्गम आणि विकास लक्षात आले.</p> <p>४) स्वातंत्र्य चळवळीचे पडसाद साहित्यामध्ये कसे उमटले आहेत, याचा शोध लागला.</p> <p>५) ब्रिटिश सरकारच्या प्रभावांचा आणि इंग्रजी साहित्याच्या संपर्कातून मराठी साहित्यात कोणती स्थित्यंतरे घडली याबद्दल साहित्यिक आणि साहित्यिकृती यांचे अवलोकन घेता आले.</p> <p>६) मराठी भाषा आणि साहित्य यांच्या कालसुसंगत कसे अनुबंध आहेत, हे लक्षात आले.</p>
		<p>CO paper II ऐतिहासिक भाषाविज्ञान</p> <p>१) भाषाविज्ञान ही संकल्पना लक्षात आली</p> <p>२) भाषेचा इतिहास समजून घेता आला.</p> <p>३) भाषेच्या शास्त्रशुद्ध अभ्यासाचे इतिहासातील प्रमुख टप्पे लक्षात आले.</p> <p>४) बोलीभाषेविषयीचे गैरसमज दूर झाले.</p>
		<p>CO Paper – III. वाङ्मयप्रकारांचा अभ्यास: कथा आणि कादंबरी.</p> <p>१) कथा आणि कादंबरी या वाङ्मय प्रकाराची ओळख करून घेतली.</p> <p>२) स्वातंत्र्योत्तर काळातील कथा आणि कादंबरीचे स्वरूप वैशिष्ट्ये लक्षात आले.</p> <p>३) निवडक कथाकार आणि कादंबरीकार यांच्या साहित्यकृतीची ओळख करून घेता आली.</p> <p>४) कथा आणि कादंबरीचे घटक, विशेष, प्रकार आणि रचनाबंद इ. परिचय झाला.</p>

		<p>५) कथा आणि कादंबरी या साहित्यप्रकाराबद्दल अभिरुची विकसित झाली. ६) अभ्यासक्रमातील साहित्यकृतीचे आकलन, आस्वाद व मूल्यमापन करता आले.</p>
		<p>CO Paper IV. लोकप्रिय साहित्य. १) लोकप्रिय साहित्य ही संकल्पना समजून घेता आली. २) वाचकांची अभिरुची आणि साहित्य निर्मिती यांचा अनुबंध स्पष्ट करता आला. ३) लोकप्रिय साहित्य, अभिजात साहित्य आणि श्रेष्ठ साहित्य यातील सीमारेषा लक्षात आली. ४) लोकप्रिय साहित्य वाचण्याची गोडी निर्माण झाली.</p>
		<p>CO Paper V स्वातंत्र्योत्तर काळातील मराठी वाङ्मयाचा इतिहास. १) स्वातंत्र्योत्तर काळातील मराठी वाङ्मयाची वाटचाल लक्षात आली. २) विविध साहित्य प्रवाहांचा उदय आणि विकास कसा झाला हे लक्षात आले. ३) स्वातंत्र्योत्तर चळवळीचे प्रभाव साहित्यामध्ये कसे पडले हे लक्षात आले. ४) मराठी लेखनातील ठळक प्रवृत्ती आणि ग्रंथकार आणि साहित्यिक कृती यांचा अनुबंध लक्षात आला. ५) अभ्यास घटका आधारे तत्कालीन परीस्थितीवर प्रकाश टाकता आला. .</p>
		<p>CO Paper VI- वर्णनात्मक भाषाविज्ञान. १) भाषेच्या संरचनात्मक बाब लक्षात आली. २) विसाव्या शतकातील भाषाविज्ञानाच्या संकल्पनांचा परिचय झाला. ३) भाषेच्या एककालिक अभ्यासाची तत्वे समजून घेता आली. ४). मराठी भाषेच्या व्यवस्थेचे आकलन लक्षात आले ५) भाषा अभ्यासाचा नवा दृष्टिकोन विकसित झाला.</p>
		<p>Co Paper VII वाङ्मयप्रकाराचा अभ्यास: कविता आणि नाटक . १) नाटक आणि कविता या साहित्य प्रकाराची वैशिष्ट्ये लक्षात आली. २) मराठी साहित्य प्रकारांची वाटचाल योगदान व वेगळेपण समजून घेता आले. ३) विशिष्ट कलाकृतीचे साहित्याच्या इतिहासातील स्थान कसे निश्चित होते ते समजून घेता आले. ४) निवडक कलाकृतींचा सूक्ष्म पातळीवरील अभ्यास करता आला. ५) नाटक आणि रंगभूमी यांचा सहसंबंध लक्षात आला.</p>
		<p>CO Paper – VII मराठी बाल-कुमार साहित्य. १) बाल साहित्य या संकल्पनेची ओळख करून घेता आली. २) प्रौढ साहित्य आणि बाल साहित्य यातील भेद लक्षात आला. ३) मराठी आणि जागतिक भाषेतील प्रमुख बालसाहित्यकृतींचा स्थूल परिचय करून घेता आला. ४) बालसाहित्य आणि इतर कलाप्रकारांचा अनुबंध लक्षात आला. ५) बालकुमार वाङ्मयाचा परिचय घडला.</p>
	M.A. S.Y.	<p>CO paper-IX साहित्य समीक्षाशास्त्र. १) साहित्याचे स्वरूप, प्रयोजने आणि निर्मिती प्रक्रिया लक्षात आली. २) साहित्याची भाषा आणि आस्वाद प्रक्रिया समजून घेता आली. ३) साहित्य आणि समाज यातील परस्पर संबंध लक्षात आला.</p>

		४) साहित्याचे आकलन मूल्यमापन आणि विश्लेषण करण्याची समीक्षादृष्टी निर्माण झाली.
		CO Paper X सामाजिक भाषाविज्ञान. १) सामाजिक भाषाविज्ञान या अभ्यासशाखेचा परिचय झाला. २) सामाजिक भाषाविज्ञान पायाभूत संकल्पनाची ओळख झाली. ३) सामाजिक भाषाविज्ञान भाषा आणि लिंगभेद याचा अभ्यास झाला. ४) भाषा विचार आणि संस्कृती याचा अनुबंध लक्षात आला. ५) बोली भाषेचा संबंध सामाजिक भाषाविज्ञानाची जोडता आला.
		CO Paper XI लोकसंस्कृती व मराठी लोकसाहित्य १) साहित्य संस्कृतीचे वैभव समजून घेता आले. २) लोक साहित्यातील समाजवास्तवाचा परिचय झाला. ३) लोक जीवनाकडे पाहण्याची नवीदृष्टी मिळाली. ४) लोकसंस्कृतीचे वेगळेपण लक्षात आले.
		CO Paper XII एका लेखकाचा अभ्यास -मध्ययुगीन-संत तुकाराम.. १) संत तुकारामाच्या समकालीन परिस्थितीचे अवलोकन झाले. २) संत तुकारामाचे जीवनचरित्र लक्षात आले. ३) अभंग आणि काव्य या छंद प्रकाराचा परिचय झाला. ४) संत तुकारामाचे अभंग रचनेतील वैविध्यपूर्णतेचा परिचय झाला. ५) मध्ययुगीन मराठी कवितेचे निखळ सौंदर्य समजावून घेणे शक्य झाले.


Dr. Mirza S.B.
Director
Internal Quality Assurance Cell
Indira Gandhi (Sr.) College,
CIDCO, New Nanded. (M.S.)




Principal
Indira Gandhi Sr. College
CIDCO, NEW NANDED.