

Programme Outcomes 2018-2019

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 ऐशिक मराठी हा विषय अधिक स्वरूपात ज्ञान मिळावा ही अपेक्षा असते.</p> <p>विद्यार्थ्यांमध्ये भाषीक गोडी सोबतच वाङ्मयीन प्रकाराची ओळख व्हावी व या विषयात रोजगार संधी तयार व्हावी हा मुख्य उद्देश मराठी विषय अभ्यासण्यापाठीमागे आहे. तसेच भावनिक क्षमता व संवेदनशीलता विद्यार्थ्यांनी आत्मसात करावी हा उद्देश आहे.</p>	<p>PSO1. मराठी साहित्य प्रकाराची आणि त्याच्या उपघटकांचा ची 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</p>

		<p>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 वाङ्मय 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.		CO Paper V आधुनिक वाङ्मय प्रकार : आत्मचरित्र.

	<p>"आपुलाची वाद आपुणाशी" चंद्रकांत वानखेडे.</p> <p>१) अभ्यासक्रमातील घटकामुळे विद्यार्थ्यांमध्ये मराठी भाषा व साहित्य संबंधित रुची निर्माण झाली.</p> <p>२) आत्मचरित्र या साहित्य प्रकारांचा अभ्यास केल्यानंतर त्यांची आस्वादक क्षमता तयार झाली.</p> <p>३) आत्मचरित्र या साहित्य प्रकारा सोबतच कथा, कादंबरी, नाटक इत्यादी साहित्य प्रकाराची ओळखही झाली.</p> <p>४) आत्मचरित्र, आत्मकथन यातील वेगळेपण व स्वरूप विशेष लक्षात आले.</p> <p>५) चंद्रकांत वानखेडे लिखित 'आपुलाची वाद आपुणाशी' या आत्मचरित्राचे वेगळेपण आणि त्याचे विशेष विद्यार्थ्यांच्या लक्षात आले.</p>
	<p>CO Paper VI- आधुनिक साहित्यप्रकार नाटक.</p> <p>प्राचीन नाट्य परंपरेची ओळख झाली.</p> <p>२) नाटकांची गौरवशाली परंपरा व आधुनिक परंपरे बरोबरच महाकाव्याचा प्रभाव आहे हे निश्चित झाले.</p> <p>३) नाटक हा वांग्मय प्रकार सुक्ष्मपणे अभ्यासता आला.</p> <p>४) दृश्य आणि श्राव्य साहित्य प्रकाराचे आकलन झाले.</p> <p>५) दलित नाटकाची परंपरा अभ्यासता आली</p>
	<p>Co Paper VII आधुनिक वाङ्मय प्रकार: कादंबरी.</p> <p>"कोयता" सरदार जाधव.</p> <p>१) कादंबरी या साहित्यप्रकाराची ओळख झाली.</p> <p>२) कथा, कादंबरी व नाटक यातील भेद लक्षात आला.</p> <p>३) कादंबरीत चित्रित झालेले जीवन समाजाला व्यापलेले कसे असते हे लक्षात आले.</p> <p>४) "कोयता" कादंबरीतून ऊस तोडी कामगाराची भयावह दुःख विद्यार्थ्यांनी जाणून घेतले.</p> <p>५) कादंबरी लेखनाची संरचनासूत्र लक्षात आले.</p>
	<p>CO Paper – VIII मध्ययुगीन गद्य-पद्यांचा अभ्यास</p> <p>१) मध्ययुगीन गद्य-पद्य साहित्य परंपरा, प्रवाह व त्याकाळातील भाषेची रूपे यांचा परिचय विद्यार्थ्यांना झाला.</p> <p>२) ओवी, अभंग, फटका ते लावणी या जुन्या व नव्या काव्यप्रकाराची</p>

		<p>ओळख झाली.</p> <p>३) यादवकालीन ते बहामनी कालीन भाषेची रूपे अभ्यासता आली.</p> <p>४) साहित्याच्या परिशीलनातून व्यक्तिमत्त्व घडविण्याचे कार्य संत साहित्यातून घडते यांची जाणीव झाली.</p> <p>५) मराठी साहित्याची गौरवशाली परंपरा समजून घेता आली.</p>
B.A. T.Y.		<p>CO paper-IX मध्ययुगीन मराठी वांगमयाचा इतिहास.</p> <p>१) मराठी वांगमयाचा स्वरूप अभ्यासता आले.</p> <p>२) मध्ययुगीन संत वांगमयाचा परिचय करून घेता आले.</p> <p>३) मध्ययुगीन साहित्य बदलची अभिरुची वाढली.</p> <p>४) साहित्यातून प्रकट झालेल्या मानवी मूल्यांचा परिचय झाला.</p> <p>५) वांगमय 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 वांगमयाचा 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>
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Department of Hindi

Programs offered: B.A.Hindi

Sr. No.	Program	Program objective	Program Specific Objectives
	B.A. Hindi	<p>jk'VHkk'kk fgnh ds ipkj rFkk i kj grq vfgnh in'k ds Nk=ka dks jk'VHkk'kk fgnh ds ifr vkdf'kr djuk rFkk fgnh Hkk'kk ea mPp f"kk{xg.k djus dh ij.kk nsuk ed; y{; gA thou ed; ka dh f"kk ds l kFk l kFk orëku cjkst xkj dh l eL; k dks /; ku ea j [krs gq fgnh Hkk'kk ds ek/; e l s jkst xkj ds volj inku djuk egROI wZ mnas; gA</p>	<p>PSO I & III. fgnh l kfgR; dh dgkuh vkj mi U; kl fo/kk l s Nk=ka dk ifjp; dj Nk=ka ea fpru , oa y[ku "kSyh dk fodkl djukA</p> <p>PSO II & IV. fgnh ukVd vkj , dkdh fo/kk dk ifjp; dj ukVd ds ifr Nk=ka ea : fp mRi Uu djukA</p> <p>PSO (SL) I&II. vfgnh {ks= ds Nk=ka dks fgnh Hkk'kk dk 0; kogkfjd Kku nsukA</p> <p>PSO V&VII. HkfDr l kfgR; ds v/; ; u ds ek/; e l s Nk=ka ea ekuork dk Hkko fodflr djukA dko; vkLoknu l s ekuoh; l onuk dk fodkl djukA</p> <p>PSO VI & VIII. fofok dFkRrj x dh fo/kkvka dk ifjp; dj dFkRrj x dh jpukvka ds v/; ; u l s fpru"khyrkj oPkfjd ixYHkrk rFkk ck/nd ik&rk dk fodkl djukA</p> <p>PSO (SL) III&IV. fnørh; Hkk'kk ds Nk=ka dks iz; kst uenyd fgnh dk l keld; ifjp; nsukA</p> <p>PSO IX. fgnh l kfgR; ds cgr bfrgkl dk ifjp; djokukA</p> <p>PSO X. ik ksxdh ds ; q; ea fgnh Hkk'kk dh mi ; kfxrk l s Nk=ka dks ifjpr</p>

			<p>djokukA</p> <p>PSO XI. Nk=ka ea l kfgR; dk "kkL=h; i)fr l s v/; ;u djus dh nf'V fodfl r djukA</p> <p>PSO XII. Hkk'kk f"kk{k.k ds egRo ds l kFk l kFk Hkk'kkbz "kdnrk , oa d'kyrk ds }kjk jkst xkj ds vol j miyC/k djukA</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 : dFk l kfgR;</p> <ol style="list-style-type: none"> 1- fgnh l kfgR; dh dgkuh vksj miU; kl fo/kk l s Nk=ka dk ifjp; gksckA 2- dFk l kfgR; dh ys[ku "ksh l s ifjp; gksckA 3- Nk=ka ea fpu , oa ys[ku "ksh dk fodkl gksckA 4- fofhku ik=ka dh ekufi drk rFk ys[ku fdz k dyki ka l s Nk=ka ea l gh vksj xyr dks ij[kus dh {kerk fodfl r gksckA 5- l kfgR; ds ek/; e l s fof/k l eL; kvka l s voxr gkdj mu l eL; kvka ds l ek/kku ds fy, Nk=ka dks ij.kk feyxhA
		<p>CO paper II & IV: uVd rFk , dkh</p> <ol style="list-style-type: none"> 1- fgnh ukVd vksj , dkh fo/kk dk ifjp; gksckA 2- ukVd ds ifr Nk=ka ea : fp mRiUu gksckA 3- l dkn ys[ku rFk okpu dksky dk fodkl gksckA 4- Nk=ka dks jxep l s l ef/kr tkudjh iklr gksckA 5- vfhku; ds ifr : fp fuekzk gksch l kFk gh vfhku; ds {ks= eadfi; j cukus dk vol j iklr gksckA
		<p>CO Paper- I & II : l kfgR; Hkjrh 1/2L1/2</p> <ol style="list-style-type: none"> 1- vfgnh {ks= ds Nk=ka dks fgnh Hkk'kk dk 0; kogfjd Kku iklr gksckA 2- fnorh; Hkk'kk ds : lk ea Nk=ka dks fgnh vksj l kfgR; dk l kku; ifjp; gksckA 3- vfgnh {ks= ds Nk=ka ea fgnh ds ifr : fp mRiUu gksckA 4- fof/k l kfgR; d jpukvka ds ek/; e l s Nk=ka ea usrd eV; ka dk fodkl gksckA
	B.A. S.Y. Hindi	<p>CO Paper V e/; ; qhu dfork [M , d</p> <ol style="list-style-type: none"> 1- Hkkjrh; HkfdR l k/kuk dk ifjp; gksckA

		<p>2- HkfDr I kfgR; ds v/; ; u ds ek/; e I s Nk=ka ea ekuork dk Hkko fodfl r gksckA</p> <p>3- Lkekftd I fg'.kpk dh ofRr dk fodkl gksckA</p> <p>4- HkfDr rFkk uhfr dh f"kk I s Nk=ka dk vkfRed rFkk v/; kfRed fodkl gksckA</p> <p>5- Tkhon n"ku rFkk thou eW; ka dk fodkl gksckA</p>
		<p>Co Paper VI & VIII : fuczk rFk dFkRj x </p> <p>1- fuczk fo/kk dk ifjp; gksckA</p> <p>2- Nk=ka ea ofkj d izYHkrk rFkk ck/nd ikrk dk fodkl gksckA</p> <p>3- dFkRj x dh jpukvka ds v/; ; u I s fpru"kyrk dh of/n gskhA</p> <p>4- fofo/k dFkRj x dh fo/kkvka dk ifjp; gksckA</p>
		<p>CO Paper VII vk/kud dfork [nk nk</p> <p>1- vk/kud fgnh dk0; dk ifjp; gksckA</p> <p>2- dk0; vkLoknu I sekuoh; I onuk dk fodkl gksckA</p> <p>3- vk/kud dfork dh fofo/k i ofRr; ka dk ifjp; gksckA</p> <p>4- orku ; xhu fofo/k I eL; kvka I s ifjpr gkdj I eL; kvka ds fujkdj .k dsfy, ij .kk iklr gskhA</p>
		<p>CO Paper- III : dFkRj x 1/2 SL 1/2</p> <p>1- vfgnh {ks= ds Nk=ka dks fnorh; Hkk'kk ds : lk ea fgnh Hkk'kk rFkk fgnh I kfgR; dk Kku gksckA</p> <p>2- dFkRj x ds v/; ; u I s Nk=ka ea fpru"kyrk ofkjdrk dk fodkl gksckA</p> <p>3- vfgnh {ks= ds Nk= fgnh dh dFkRj x dh fo/kkvka rFkk jpukvka I s ifjpr gksckA</p> <p>4- dFkRj x dh fofo/k jpukvka ds }kjk Nk=ka ea ns'khkfDr] I kekftd nkf; Ro] drD; ijk; urk] usdrk vkfn eW; ka dk fodkl gksckA</p>
		<p>CO Paper- IV : ukVd rFk izkstueyd fgnh 1/2 SL 1/2</p> <p>1- fnorh; Hkk'kk ds Nk=ka dks fgnh ukVd I kfgR; dk I keku; ifjp; gksckA</p> <p>2- I onk y[ku rFkk okpu dksky dk fodkl gksckA</p> <p>3- fnorh; Hkk'kk ds Nk=ka dks izkstueyd fgnh dk I keku; ifjp; gksckA</p> <p>4- izkstueyd fgnh ds v/; ; u I s jkstxkj ds vol j iklr gksckA</p> <p>5- feMh; k y[ku dksky fodfl r gksckA</p>

		6- bā/ju/ dh mi ; kṣrk] oṣ fpāk] b eṣy fueZk rFk i k.k vkfn dk Kku i klr gkskA
B.A. T.Y. Hindi	CO Paper IX fgnh kfgR; dk bfrgkl	<ol style="list-style-type: none"> 1- fgnh kfgR; dscgr bfrgkl dk ifjp; gkskA 2- fgnh kfgR; ds l`tu dh i`Bhkfe dk cksk gkskA 3- kfgR; d i dfr; ka dk Kku gkskA 4- Nk=ka dks thou n`kz rFk thou eW; ka dh f`k{k i klr gkskA 5- kfgR; ds bfrgkl dk v/; ; u Hkfo'; dkyhu fueZk ea egRo i wkZ kfcR gkskA
	CO Paper X : fgnh Hkk'kk	<ol style="list-style-type: none"> 1- fgnh Hkk'kk ds ifr Nk=ka ea : fp mRi lu gkskA 2- fgnh Hkk'kk ds iz qDr {ks=ka s ifjp; gkskA 3- i k kṣrdh ds ; q ea fgnh Hkk'kk dh mi ; kṣrk s Nk= ifjpr gkskA 4- cghk'kd fo`kky Hkkjr dh i dZ Hkk'kk ds : i ea fgnh Hkk'kk mi ; kṣrk fl /n gkskA 5- fgnh Hkk'kk v/; ; u ds nekj u ; s u ; jkst xkj ds vol j i klr gkskA
	CO Paper XI : kfgR; "ML=	<ol style="list-style-type: none"> 1- Nk=ka ea kfgR; dk "kkL=h; i) fr s v/; ; u djus dh nf`V fodfl r gkskA 2- Nk= kfgR; "kkL= dsegRo dks vkRel kr dj kA 3- "kCn vkj vFkZ ds e/ka dk cksk gkskA 4- Hkk'kkbz f`kYi ds ifjorZka dk cksk gkskA
	CO Paper XII : Hkk'kk f`k{k.k	<ol style="list-style-type: none"> 1- Hkk'kk f`k{k.k dsegRo s ifjp; gkskA 2- fgnh Hkk'kk dh 0; kdjf.kd dksV; ka s ifjp; gkskA 3- Hkk'kkbz "kqnrk , oa dkyrk ds }kj jkst xkj ds vol j i klr gkskA 4- fgnh Hkk'kk ds kFk kFk foKku rFk 0; ki kj dh v ru tkudkj ; k; i klr gkskA 5- Nk=ka ea y[ku dksky fodfl r gkskA
Sr. No.	Program	Program objective
	B.A/B.SC First year Compulsory English	Objectives: To introduce the students with short stories, essays on a variety of important topics, To encourage them to understand and appreciate prose

	<p>writings of well-known writers, To acquaint them with ‘prose’, its meaning and importance, To make them learn grammar items, such as antonyms, synonyms, etc. To enable them to write grammatically accurate sentences, by identifying common errors in writing, To encourage them to write short reports, personal and business letters, To prepare them to write short, precise, and meaningful e-mails for a variety of purposes, To prepare the students for competitive exams by encouraging them to learn English To encourage the students to understand and appreciate short lyrical poems, To motivate them to enjoy the inherent rhythmic beauty of lyrical poetry, To acquaint them with famous world poets such as Shakespeare, Blake, Tagore, etc, To prepare the students for competitive exams by encouraging them to learn English, To develop in the students communicative competence by encouraging them to learn to listen, speak, read and write properly, To develop the language skills of listening, speaking, reading and writing in the students so that they could use the English language in day to day, practical situations, To make the students understand the importance of non-verbal communication, i.e. body language so as to make communicative situations more meaningful, positive and effective</p>	
	<p>B.A/B.SC second Year Compulsory English</p> <p>Objectives: To introduce the students with short stories, essays on a variety of important topics, To encourage them to understand and appreciate prose writings of well-known writers, To acquaint them with ‘prose’, its meaning and importance, To make them learn grammar items, such as Idioms, Phrases, and reported speech etc. To enable them to write grammatically accurate sentences, by identifying correct reported speech in writing English. To prepare the students for competitive exams by encouraging them to learn English. To encourage the students to understand and appreciate short lyrical poems, To motivate them to enjoy the inherent rhythmic beauty of lyrical poetry, To acquaint them with famous world poets such as Wordsworth,</p>	

		<p>Blake, Keats, Byron, Browning, Lanston Hughes, Tagore etc, To prepare the students for competitive exams by encouraging them to learn English, To develop in the student's communicative competence by encouraging them to learn to listen, speak, read and write properly, To develop the language skills of listening, speaking, reading and writing in the students so that they could use the English language in day to day, practical situations, To make the students understand the importance of non-verbal communication, i.e. body language so as to make communicative situations more meaningful, positive and effective.</p>
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Courses offered: F.Y.B.A.English, S.Y.B.A. English and T.Y.B.A English.

Sr. No.	Course	Course outcome
	B.A. F.Y.Paper No I,II,III,IV	<p>Optional English - First Year Semester I Paper No. I Title: Study of Fiction- Short Story Objectives of the Study: To acquaint the students with the literary genre of 'fiction,' particularly short story, To introduce the meaning, types, features and functions of "short story," To encourage them to read, understand, and appreciate short stories, To introduce them with the world famous short story tellers from England, USA, and India, To inculcate in the students the habit of reading short stories.</p>
		<p>Optional English - First Year Semester I Paper No. II Title: Study of Drama- One Act Play Objectives of the Study: • To acquaint the students with the literary genre of 'drama,' mainly One Act Play, • To introduce the meaning, types, features and functions of "One Act Play," •To make them understand the mechanics of stage performance/acting/theatre direction, etc., • To encourage them to understand and appreciate the literary art of play writing, • To encourage the students to watch and enact one act plays, •To develop among the students a liking for watching, enjoying and appreciating the art of drama.</p>
		<p>Optional English - First Year Semester II Paper No. III Title: Study of Fiction- Full Length Fiction</p>

		<p>Objectives of the Study:</p> <p>To acquaint the students with the literary genre of ‘fiction,’ particularly full length fiction/novels, To introduce the meaning, features, functions and various types of fiction/novel, To encourage them understand and appreciate themes, motifs, symbolism and characters in the novels selected from diverse cultural milieu, To introduce them with the world famous novelists such as Conrad, Hemingway, and RK Narayan. To inculcate in the students the habit of reading novels for aesthetic pleasure.</p>
		<p>Optional English - First Year Semester II Paper No. IV Title: Study of Drama- Full Length Play</p> <p>Objectives of the Study:</p> <p>To acquaint the students with the literary genre of ‘drama,’ mainly Full Length Plays, To introduce the students with meaning, types, features and functions of full length drama, To make them understand the mechanics of stage performance/acting/theatre direction, etc., To develop among the students a liking for watching, enjoying and appreciating the art of drama for artistic and aesthetic pleasure, To encourage the students to watch and enact/perform full-length plays during college gatherings/annual days/drama competitions, etc.</p>
	<p>B.A. S. Y. Paper No V,VI,VII,VIII Skill Enhancement course</p>	<p>Optional English - Second Year Semester III Paper No. V Title: Study of Poetry- Sonnets & Elegy</p> <p>Objectives of the Study:</p> <p>To acquaint the students with the literary genre of ‘poetry,’ particularly sonnet & Elegy, To introduce the meaning, types, features and functions of “sonnet Elegy.” To encourage them to read, understand, and appreciate sonnet, elegy To introduce them with the world famous sonnets and elegy. To inculcate in the students the habit of reading Sonnet &Elegy.</p>
		<p>Optional English - Second Year Semester III Paper No. VI Title: Study of Prose- Essays</p> <p>Objectives of the Study:</p> <p>To acquaint the students with the literary genre of ‘prose,’ particularly Essays. To introduce the meaning, types, features and functions of “Prose - Essays” To encourage them to read, understand, and appreciate Essays. To inculcate in the students the habit of reading Essays.</p>

		<p>Optional English - Second Year Semester IV Paper No. VII Title: Study of Poetry- Odes and Ballads Objectives of the Study: To acquaint the students with the literary genre of ‘poetry,’ particularly Odes and Ballads. To introduce the meaning, types, features and functions of “Odes and Ballads” To encourage them to read, understand, and appreciate Odes and Ballads. To introduce them with the world famous Odes and Ballads. To inculcate in the students the habit of reading Odes and Ballads.</p>
		<p>Optional English - Second Year Semester IV Paper No. VIII Title: Study of Prose- Autobiography Objectives of the Study: To acquaint the students with the literary genre of ‘prose,’ particularly Autobiography. To introduce the meaning, types, features and functions of “Autobiography.” To encourage them to read, understand, and appreciate Autobiography. To inculcate in the students the habit of reading Autobiography.</p>
		<p>Skill Enhancement Course (SEC) - Second Year Skills for Employability-I Semester III Employability-II Semester IV Objectives of the Course: To provide sound knowledge and training of 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</p>	<p>DSE I - Semester V Title of the course: Literary Theory and Criticism (A) Introduction to Literary Criticism Salient features of the course: 1) The knowledge about classical masters of criticism is</p>

	Enhancement course	<p>disseminated</p> <p>2) Critical ability to read texts in the light of past theories is introduced</p> <p>Utility of the Course: 1) The learners would develop a critical ability to judge literary texts</p> <p>2) Critical insight into the past theorists would be developed</p> <p>Objectives of the Course:</p> <p>1) To introduce the Greek and Roman literary critics to the learners</p> <p>2) To acquaint the learners with the English literary critics and criticism</p> <p>3) To understand the texts of major critics</p> <p>4) To identify and understand the literary terms, phrases and concepts in English related with the literary theories and criticism</p>
		<p>GE I –Semester V Title of the course: Modern English Structure (A) Introduction to English Speech Sounds</p> <p>Salient features of the course</p> <p>1) The practical aspects of the English language are demonstrated</p> <p>2) Ability to comprehend and reproduce Standard English is introduced</p> <p>Utility of the Course:</p> <p>1) The learners would be able to understand the system of speech with English sounds</p> <p>2) The ability to understand and reproduce standard patterns of speech is facilitated</p> <p>Objectives:</p> <p>1) To acquaint the learners with the English speech sounds, syllable and its structure</p> <p>2) To study the phonemic transcription and consonant clusters</p> <p>3) To understand the word accent and intonation in English speech</p> <p>4) To identify the dialects, idiolects and varieties of British English</p> <p>Prerequisites of the course</p> <p>1) Charts, diagrams, worksheets based on the course content</p> <p>2) The use of Language laboratory and audio-visual aids would be additionally beneficial to impart instructions</p>
		<p>DSE II Semester VI Title of the course: Literary Theory and Criticism (B) Introduction to Literary Theory</p> <p>Salient features of the course:</p> <p>1) The knowledge about contemporary theories of criticism is disseminated</p> <p>2) Critical ability to carry out practical criticism is introduced</p> <p>Utility of the Course:</p> <p>1) The learners would develop ability to analyze literary texts according to the rules of prosody</p> <p>2) Critical insight into the contemporary theories would be</p>

		<p>developed</p> <p>Objectives of the Course:</p> <ol style="list-style-type: none"> 1) To introduce the prominent literary theories to the learners 2) To acquaint the learners with the global critical schools 3) To understand in depth the major literary theories 4) To enable the learners for undertaking practical criticism
		<p>GE II –Semester VI Title of the course: Modern English Structure (A) Introduction to English Grammar</p> <p>Salient feature of the Course</p> <ol style="list-style-type: none"> 1) The course induces an understanding of the mechanism of the English Language 2) The notion of grammatical correctness in practical usage is highlighted <p>Utility of the course:</p> <ol style="list-style-type: none"> 1) Learners are enabled to understand the logics and practices in the field of English grammar 2) The foundational structure of English grammar is explained 3) Learners would be able to use the language with grammatical correctness <p>Objectives:</p> <ol style="list-style-type: none"> 1) To acquaint the learners with the English Word Classes. 2) To study word structures and affixes. 3) To study the basic clauses and phrases in English 4) To understand the sentence structure and forms and meaning 5) To identify the common errors and ambiguities in English sentences 6) To comprehend the varieties of English language and its dialects
		<p>Syllabus For Skill Enhancement Course (SEC) - Third Year</p> <p>Title of the course: Life Skills –I- Semester V</p> <p>Title of the course: Life Skills -II - Semester VI</p> <p>Salient Features of the Course</p> <ol style="list-style-type: none"> 1. The course prepares the learners for a smooth entry in to the world of work 2. Self-awareness and social awareness are developed 3. Skill necessary for digital lifestyle are introduced <p>Utility of the Course: 1)Developing personal and social skills in the learners</p> <ol style="list-style-type: none"> 2) Creating gender awareness 3) Developing skills for individual and group activities <p>Objectives: 1) To assist the learners for a smooth transition from student life into the world of work.</p> <ol style="list-style-type: none"> 2) To develop the skills necessary for understanding oneself and the sociocultural group. 3) To help the learners choose the best ways of utilizing their time, efforts and mental energies.

		<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>
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Department of Geography

Programs offered: B. A. Geography

Sr. No.	Program	Program objective	Program Specific Objectives
	B. A. Geography	Inspire the students for pursuing higher studies in Geography and for becoming an entrepreneur and also enable students to get employed in the Geography Related Sector & Institutes, Industries, Educational Institutes Research Institutes and in the various concerning department of State and Central Government based on Geography subject.	<p>PSO1.To provide through knowledge about various Geographical factors</p> <p>PSO2. To make the students aware of applications of Geography subject in various sectors.</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 make the students aware about conservation and sustainable use of Natural resources.</p> <p>PSO6. To inculcate interest and foundation for further studies in Geography.</p> <p>PSO7. To address the socio-economical challenges related to Geography.</p> <p>PSO8. To facilitate students for taking up and shaping a successful career in Geography.</p> <p>PSO9. To create interest in nature conservation among the students</p> <p>PSO10.The life of all living creatures on earth depends on nature, so it is the duty of human beings to conserve nature.</p>

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

Sr. No.	Course	Course outcome
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	B. A. F.Y.	<p>CCGEOG- I: Geomorphology</p> <ol style="list-style-type: none"> 1) Students know about the creation and evolution of various earth forms. 2) Students know the process, type and process of rock formation. 3) By understanding the process of formation of internal and external forces of the earth, students get information about the forms formed by external factors and internal forces. 4) Students get scientific information about disasters like earthquakes and thus remove misconceptions about them.
		<p>CCGEOG - II: Climatology</p> <ol style="list-style-type: none"> 1) Students get information about the weather in different parts of the world. 2) Students understand the importance of weather in human life by knowing the weather related factors 3) Students understand the role of climate for human development. 4) Students get scientific information regarding important factors like rainfall, temperature and storms, so various misconceptions about it are removed. 5) Students get information about global climate change.
		<p>CCGEOG – III: Practical Geography</p> <ol style="list-style-type: none"> 1) Students understand how standard is made and its importance in geography 2) Students understand the importance of Scale for map and plan. 3) Students are aware of various ReliefShowing methods 4) Students are aware of the landforms in the land view map.
		<p>CCGEOG – IV: Oceanography.</p> <ol style="list-style-type: none"> 1) Students know about the distribution of various oceans and seas on earth and their resources 2) Students know the Surface configuration of ocean floor. 3) Students understand the chemical and physical properties of sea water. 4) Students understand the process of formation of various movements of sea water
		<p>CCGEOG -V: Biogeography</p> <ol style="list-style-type: none"> 1) Students understand the process of creation of ecosystems on earth, so students develop a scientific view regarding the creation of ecosystems. 2) Students understand the nature and elements of life on earth 3) Students know about the types of animals and plants on

		earth, their distribution and the problems that have arisen with them.
		<p>CCGEOG – VI: Practical Geography</p> <ol style="list-style-type: none"> 1) Students acquire the skills of reading Indian topographical map. 2) Students get the skill to get information about various natural and cultural elements of the region on the basis of topographical map. 3) Students acquire the skills of presenting geographical information with the help of line graphs and bar graphs.
	B. A. S. Y.	<p>CCGEO- VII:Human Geography</p> <ol style="list-style-type: none"> 1) Students know the real relationship between human and environment 2) Knows the various functions of human beings 3) Knows about human life in different parts of the world 4) There is only one human being living in different regions of the earth but the geographical conditions of that region have created diversity in his way of life. Students get this message of national unity through human geography
		<p>CCGEO- VIII Economic Geography</p> <ol style="list-style-type: none"> 1) Students know about the economic activities of human beings in different regions of the earth 2) Students have knowledge about agriculture, mineral resources, energy resources, industries, trade and transportation in different regions. 3) Students understand the importance of having various natural resources for the development of human life 4) Students have knowledge about conservation and planning of natural resources
		<p>CCGEO- IX Practical Geography</p> <ol style="list-style-type: none"> 1) Students acquire skills in presenting various geographical elements in two dimensional and distribution maps. 2) Students acquire skills to measure population density and population growth
		<p>SEC I Tourism Geography</p> <ol style="list-style-type: none"> 1) Students know various aspects of tourism 2) Students know the role of tourism center in the development of various regions 3) Students acquire various skills related to tourism
		<p>CCGEO- X Geography of Maharashtra</p> <ol style="list-style-type: none"> 1) Students learn about the natural resources of Maharashtra, river system, soil, vegetation, minerals and energy resources 2) Students get to know the various features of agriculture, irrigation, industrialization and population in Maharashtra and in

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

		problems by getting acquainted with the study of geography and the paradigms in the subject.
		<p>GE GEOG-II XVII Geography of India – Part II</p> <p>1) Students are aware of the factors affecting the population distribution in India.</p> <p>2) Students are aware of the impact of the explosion of population growth in India on various sectors</p> <p>3) Students have a real knowledge of agriculture, industrialization, trade and colonies in India</p> <p>4) Students are aware of issues like regional inequality, poverty and gender in India's development</p>
		<p>DSE GEOGIV—XVIII: Practical Geography</p> <p>1) Students have the skill to measure various statistical techniques</p> <p>2) Students understand the usefulness of computer and geographical information system in the study of geography.</p> <p>Through study tours, students gain observation skills and through village surveys, survey and report writing skills.</p>
		<p>SEC IV Disaster Management</p> <p>1) Students know about disaster management and disaster management rules</p> <p>2) Gains skills to manage disasters before, during and after disasters.</p> <p>3) Students acquire the skills to use remote sensing and geographic information systems in various disaster management</p> <p>4) Students know the role of various agencies in disaster management.</p>

Department of History

Programs offered: B.A. History

Sr. No.	Program	Program objective	Program 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 	<p>PSO1. 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>PSO3. To understand the most important and inspiring history of Chhatrpati Shivaji Maharaj and his times.</p> <p>PSO4. Students WILL understand the historical advancement of Mughal period 1526 to 1707 A.D.</p> <p>PSO5. To introduce Indian Freedom Struggle Movements in</p>

	<ul style="list-style-type: none"> • 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>broad manner.</p> <p>PSO6. To aware the students to know the contribution of Social Reformers & social change process in Modern Maharashtra.</p> <p>PSO7.(SEC) To introduce the students to the Indian art & Tourism.</p> <p>PSO8. (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.
B.A. S. Y.	CO Paper V & VII : Chhatrpati Shivaji and his Times (1630 A.D. to 1707A.D.)	<ol style="list-style-type: none"> 1. Student will have the brief introduction of Chhatrpati Shivaji and his contribution. 2. Students will be aware of conflict of Chhatrpati Shivaji with Adilshahi and Mughal. 3. Students are must be familiar with Adilshahi, Nizamshahi and Mughal. 4) Students will be understand the real history of Chhatrpati Shivaji Maharaj and his times 5) Students will be understand the benevolent nature of Chhatrapati Shivaji's regime 6) Students will be focus on the contribution of Chhatrpati Shivaji in building an independent Swarajya 7) Students will be introduce the various policies regarding Agriculture, Water management, Environment and Scientific approach of Chhatrpati Shivaji Maharaj.
	Co Paper VI & VIII : History of India (1526 A.D. to 1707 A.D.)	<ol style="list-style-type: none"> 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.
SEC	CO SEC Paper I & II TOURISM	<ol style="list-style-type: none"> 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

B.A. T.Y.	<p>CO Paper IX & X : History of Modern India (1857- 1947 A.D.)</p> <ol style="list-style-type: none"> 1. To introduce Indian Freedom Struggle Movements in broad manner. 2. To instil the spirit of nationalism among students. 3. Make the students responsible Citizen of the nation. 4.To inculcate moral qualities like Devotion, Unity, Fraternity, Brotherhood in students. 5. To make the students aware of criticizing. 6. To enhance the national interest among the students. 7. To support the spirit of competency. 8. To inculcate the National and International virtues in the minds of students. 9. To enlighten the spirit of fellow feeling. 10. To elaborate the Modern Indian History in various contexts.
	<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
SEC	<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

Sr. No.	Program	Program objective	Program Specific Objectives
	B.A. Sociology		<p>PSO1. student learn basic concepts of Sociology and Student could acquire scientific Knowledge of introductory Sociology</p> <p>PSO2. The Students learn societal objectives of Social integration Social reproduction and Social continuity..</p> <p>PSO3. The Students of Sociology must possess the Knowledge of 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 programmers 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

Sr. No.	Course	Course outcome
	B.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>1 Students know our culture and the society problems</p>
	B.A. S. Y.	<p>CO Paper V- Indian Society : Structure & Change</p> <p>1 Students will able to know the social changes between the present and the past is an evident feature of the society.</p> <p>2. The coursealso has as its focus the changing patterns of inequality in contemporary societies.</p> <p>3.It is quite hope that the sociological perspectives on society. The Social Milieupresented in proposed course will enable students to gain a better understanding of theirsituation and region.</p>
		<p>Co Paper VI Transformative Movement in India</p> <p>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.</p> <p>2.Consequently this situation gives birth to radical social movements and Indian society in hermits of the unique features compared to other societies.</p> <p>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</p> <p>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</p> <p>1.Studentsareable to understand in emerging aspects of applied knowledge in Human Rights and social issues under the surveillance of Indian constitution.</p> <p>2. Students will able to understand the present course introduced the update of new areas of sociologicalexplorations 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</p> <p>Rural Society and Development</p> <p>1.To understand Rural Society</p> <p>2 To Know the various Rural Development Programmes.</p>

		3 To understand issues in process of implementation of rural development programmes.
		<p>Skill Enhancement Course – II</p> <p>Problem of Slum</p> <p>1 To understand problem faced by people living in slums</p> <p>2 To Know slum people and their living conditions</p> <p>3 To Know various programmes related to problems of slum</p>
	B.A. T.Y.	<p>DSE – A : Western Sociological Thinkers – I</p> <p>1. Students will able to understand the introduce with western social thinkers understand their analysis and build up your own ideas.</p> <p>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>DGE – 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>SEC – 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>DSE – B : Modern Sociological Thoughts in India – II</p> <p>1. Students 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>DGE – 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>

		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>SEC – 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 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>PSO1. student learn basic concepts of History of Physical Education</p> <p>PSO2. The Students learn Principle of Physical Education</p> <p>PSO3. The Students of Sociology must possess the Knowledge of various Health-related concepts and diseases.</p> <p>PSO4. Students know the Basic Anatomy,Physiologyand First Aid</p> <p>PSO5. The course may provide opportunity to higher education specially in the field of physical education</p> <p>PSO6 The course is significant to enhance the abilities of the student to work in thedifferent fields of Physical education in the area of coaching, teaching, guidance &Curriculum development etc.</p> <p>PSO7The course is helpful to get knowledge and skills with respect to coaching, teaching, guidance & Curriculum development etc. in physical education</p> <p>PSO8 The professional abilities and personality of the students may be enhanced</p>

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

Sr. No.	Course	Course outcome
	B.A. F.Y.	CO Paper I- History of Physical Education 1.student will learn basic concepts of Physical Education 2.Students know the history of physical Education 3.Students Know the awards in games and sports
		CO Paper II- Practical 1.Students will understanding Skill and techniques in running 2.The Students learn about the optional games 3. Students will understand the Indian games
		CO Paper III- Principal of Physical Education 1.The student will be able know Biological basic of physical education 2.Students is able to understand the meaning of play and games 3.Students will know about the role of National integrity and Indian culture
		CO Paper IV- Practical 1 Students will able to understand the height measurement shot-put, Long jump, Table tennis, etc. 2. students are able to understand the mentation the record in record book.
	B.A. S. Y.	CO Paper V- Basic Anatomy, Physiology and First Aid 1.Students will able to know the anatomical structure of human being 2. Students will able to understand the physiology of all system in human body. 3. Students are able to the use of first aid after injuries on playing in ground.
		Co Paper VI External Practical 1.Studesnts will able to understand the practical work in Pulse rate Measurement,. Relay (4*100 /4*400) Men and Women, Kho-Kho, Yoga/ weight lifting, Dand Baithak (Men), Bent Knee Sit-ups.
		SEC- I Fitness and wellness 1.Students will able to understand the different fitness exercise . 2.Students will know about Nature and Duties of Life Guard
		CO Paper – VII Fitness and Diet 1.Students will able to understand the fitness of body. 2.Students will able to know about the types of posture 3.Students will able to understand about diet and nutrition.
		CO paper-VIII External Practical 1.Students areable to understand the fundamental skill in different games like Throwing event, Jumping event, Cricket, judo etc.
		Skill Enhancement Course – II Curative Therapies 1. Students will able to understand the Concept & types of massage, Techniques of massage, Massage for body relaxation,

		<p>Massage for disabled people, Benefits of massage.</p> <p>2. Students will be able 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.</p>
	B.A. T.Y.	<p>DSE – A : Paper-IX ORGANIZATION AND MANAGEMENT IN PHYSICAL EDUCATION</p> <p>Students are able to understand the basic management in physical education</p> <p>2. Students will be able to 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 and sports</p>
		<p>SKILL ENHANCEMENT COURSE -III</p> <p>Yogic 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- Xi generic Elective Physical Education Practical</p> <p>1. Students will be able to understand the Flexibility measures, Track and Field event: High Jump, Aerobics Activities, Volley Ball, Hand Ball</p> <p>2. Students are able to know about the Historical development, ground measurements. Rules and regulation, records and awards</p>
		<p>SEC-IV Officiating and Coaching</p> <p>1. Students will be able to understand the Officiating in Kabaddi, Officiating in Kho-Kho, Officiating in Volley Ball, Officiating in Cricket, Officiating in Track and Field.</p> <p>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.</p> <p>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.</p> <p>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</p>

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, IV	
		<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, institutions 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</p>	<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

		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.	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, propoganda, 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 & 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.	The main purpose of this paper is to educate students about the Elections of India.
6	B.A.II	Paper Title : Political Journalism, Paper : SEC -II	

	Political Science	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 the 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 India. It deals with the main sources of the political traditions in modern India and focuses the development of social Institution and as well as various patterns of	The main objective to study this paper is to understand key thinker's seminal contribution to the evolution of political theorizing in India.

		politics that emerged in modern 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	B.A. F.Y.	Political Theory, Paper – I, III i) Pupils will understand the basic Political concepts by standing the course. ii) Students will be able to solve the Political problems by standing this course. iii) Students will acquire the judgment power by standing the various Political iv) Ideas, concepts and other Political issues concern with Politics.
02	B.A. F.Y.	Government and Politics of Maharashtra, Paper -II, IV i) Students will understand the formation, Government and other Political issues concern with Maharashtra Government. ii) Student will be to solve the Political problems by studying this course. iii) Pupils will acquire to understand various Political issues, Political process and Political activity. iv) Students get various political ideas concern with state Government and other relevant Political issues.
SEMESTER III & IV		
03	B.A.S.Y.	Paper Title : Indian Constitution, Paper – V, Paper Title : Indian Government and Politics VII The outcome of course lies in building ideal citizens competition ready skilled, man power mass awareness about the political structure and functionary among the youth. It will also go a long way in building Democracy and mass awareness among with about Indian Constitutions with their Fundamental Rights and Duties.
04	B.A.S.Y.	Paper Title : International Relations, Paper-VI, Paper Title : International Organizations & Issues, Paper-VIII The Utility of the course Lies in the course Constitution in raising the student's awareness about the global International Politics with Key concepts approaches and Political Institutions like UNO. It will also

		helps students to prepare themselves for competitive exams like UPSC, MPSC etc. moreover it will career like Political analyst Media, Professionals and Ideal Politicians.
05	B.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	B.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	B.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	B.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	B.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	B.A. I 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. 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>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.</p> <p>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>Maharashtra has a parliamentary system of government with two democratically elected houses, the Legislative Assembly (Vidhan Sabha) and Legislative Council (Vidhan Parishad).The Government of Maharashtra is headed by the chief Minister and the Chief Secretary is at the apex of the Administrative Hierarchy of Maharashtra state. The focus of the course is on the Administrative system of Maharashtra state. 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	<p>B.A. II Public Administration</p>	<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 as 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</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.</p> <p>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</p>

		<p>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 growth of the rural poor people by extending the benefits of development to them. The main aim of rural development programmes is to improve the living standards of the people and providing them opportunities. In the present era, various rural development programmes have been newly defined by Prime Minister. This course designed to create awareness of rural development in the students.</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</p>	<p>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 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.</p> <p>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>
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		<p>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 accountability in the government. The course mainly aims at creating new skill in students for Application of E-Governance and Digital Devices in administrative service delivery.</p>	<p>PSO38.To understand Structure and function of various departments of District Administration. PSO39.To provide knowledge of the revenue system, Judiciary system and Police administration at district level. PSO40. To Understand the Role of Urban Local Government in the Development of the Nation. PSO41.To Develop a Local 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.</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.</p>

		<p>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>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 will throw light on details of the formation and working of Panchayati Raj institutions and powers and responsibilities. The course covers the part which is commonly added in U.P.S.C.,M.P.S.C. and other competitive exams. This course would focus on the panchayati Raj institutions and their administration.</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</p>	<p>PSO53. The relevance of thoughts in organizations.</p> <p>PSO54. To provide basic Knowledge of financial administration.</p> <p>PSO55. To Understand the Indian Budgetary process.</p> <p>PSO56.To Familiarize the students with basic Knowledge of Budget and financial administration .</p> <p>PSO57. To Understand the Three tire system of panchayati Raj in Maharashtra state.</p> <p>PSO58. Understand to how to help to Zilla parishad, panchayat samiti and Gram Panchayat improve 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</p>
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	<p>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. 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 independence in the field of local government has been the establishment of a net-work of Urban local Institutions. All round Development of Urban areas is done through the Urban Administration. To make Municipal Councils and Municipal Corporation strong and democratic under the 74 Amendment of Indian Constitution. The urban local Institutions playing 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</p>	<p>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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		of the peoples. The focus of the course is on the NGOs , their functions and responsibilities.	
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Courses offered:

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

Sr. No.	Course	Course outcome
01	B.A. F.Y.	<p>CO Paper- I: Principles of Public Administration</p> <p>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>CO Paper- II: District Administration</p> <p>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.</p> <p>2. Awareness of the basic governing system (Urban) as well as development measures.</p> <p>3. Exhibit the efforts for urban development in Maharashtra state.</p>
		<p>CO Paper- III: Administrative organization and its Principle</p> <p>1) The course will aid the students to develop their personality..</p> <p>2) It will introduce them about the functioning of the Administrator in Public Administration.</p> <p>3) It will make the students aware of the various issues in Public Administration .</p>
		<p>CO Paper- IV: Indian Administration</p> <p>1. It help the students to understand the system of Indian Administration</p> <p>2. Awareness of the basic governing system</p> <p>3. Exhibit the efforts for urban and Rural development in India.</p>
02	B.A.S.Y.	<p>CO Paper- V: Personnel Administration</p> <p>1. It will provide knowledge of Personnel Administration.</p> <p>2. Explain the importance of human resources and their effective work in Administration</p> <p>3. Outline the principles of recruitment and the advantages and disadvantages of Direct & Indirect Recruitment</p> <p>4. Analyze the key issues related to Promotion , Merit & Seniority principle etc.</p>
		<p>CO Paper- VI: State Government & Administration</p> <p>1. It help the students to understand the system of State Government & Administration</p> <p>2. Awareness of the basic State governing system</p> <p>3. Exhibit the efforts for development in States.</p>
		<p>CO Paper- VII: Rural Development and Empowerment Programmes</p> <p>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</p>

		<p>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>CO 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>CO 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>CO 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. 3. Awareness of the basic E- administrative system as well as various issues in E administration.
03	B.A.T.Y.	<p>CO Paper- XI: Administrative Thinkers</p> <p>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>CO Paper- XII: (OR) Financial Administration</p> <p>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>CO Paper- XIII: Rural Local Government in Maharashtra</p> <p>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.</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

	<p>Maharashtra state.</p> <p>4. Understand the role of Panchyat Raj Institutes as the main instrument of State to achieve its Rural developmental goals.</p>
	<p>CO Paper- XIV: Disaster Management</p> <p>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>CO Paper- XV: Recent Trends in Public Administration</p> <p>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>CO Paper- XVI: (OR) Administrative Thoughts</p> <p>The students will be channelized to learn and understand various theories put forth by Modern administrative thinkers regarding public administration and management. Through the narratives described in the course students will be made acquainted with theories advocated by administrative thinkers like Elton Mayo, Abraham Maslow about Human Relations Theory.</p>
	<p>CO Paper- XVII: Urban Local Government in Maharashtra</p> <p>The utility of the course is discuss and analyze the problems created due to urbanization and suggest possible salutations about urban management and other related issues. The students will learn and try to understand the functioning of several democratic urban institutions such as Nagar panchayat, Nagar Parishad and Muncipal Corporations. .Due to the course the students will be motivated to develop interest towards urban development of Maharashtra state.</p>
	<p>CO Paper- XVIII: Administration of N.G.O.</p> <p>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>

Department of Geography

Geography Programs offered: M. A. Geography

Sr. No.	Program	Program objective	Program Specific Objectives
	M. A. Geography	Inspire the students for pursuing higher studies in Geography and for becoming an entrepreneur and also enable students to get employed in the Geographical research Institutes, Forest Department, Metrological Department, Survey of India and Educational Institutes and in the	<p>PSO: 01To familiarize the students with the understanding of the society through concepts and social theory, philosophical approaches and spatial processes.</p> <p>PSO:02To examine the process of social region formats in India with the help of social cultural factors.</p> <p>PSO:03To Understand diversity of cultures and its diffusion. To introduce GIS (Geographic Information System) as a tool of spatial science.</p> <p>PSO:04To indicate the basic</p>

		various concerning department of State and Central Government based on subject Geography.	elements of GIS and methodology of GIS. To outline the steps and areas of application of GIS. PSO:05 The aim of this course is to introduce the students with the fundamentals of regional planning PSO:06 To provide in depth knowledge about agriculture geography PSO:07 To nurture scientific and research approach among the students
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Courses offered: F.Y. M.A. and S.Y.M.A. Geography

Sr. No.	Course	Course outcome
	F.Y.M. A. SEMESTER-I	Paper I Geomorphology <ul style="list-style-type: none"> The course will provide an understanding of the conceptual and dynamic aspects of landform development. Students will also learn the relevance of applied aspects of Geomorphology in various fields. Understanding crustal mobility and tectonics; with special emphasis on their role in landform development
		paper II Climatology <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.
		Paper – III Economic Geography <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
		Paper IV Practical <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

		<p>the land using dumpy level and prismatic compass in the field Survey, Methods of Slope Analysis.</p> <ul style="list-style-type: none"> • Conducting field excursions and preparation of field report on research on problem in nearby different areas.
	F.Y. M. A. SEMESTER- II	<p>paper VOceanography</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 Urban Geography</p> <ul style="list-style-type: none"> • Understand the trends and patterns of world urbanization. • Know about different theories of urban growth • 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.

		<ul style="list-style-type: none"> • 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. Overall this paper gives research based knowledge

Faculty of Science

Department Of 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

Sr. No.	Course	Course outcome
01	B.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.
02	B.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.
03	B.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.
04	B.Sc. F.Y.	<p>CCC- II (Section B), P-II: Physical + Inorganic Chemistry After completion of syllabus students will be able to understand</p>

		<p>following outcomes.</p> <ol style="list-style-type: none"> 1. To impart knowledge of atomic structure, different theories of atomic structure, rules of electronic configuration and quantum numbers. 2. Learning of properties of liquid phase as surface tension, Viscosity and parachor. 3. Student will learn the basic knowledge of colloidal state, types, preparation, properties and applications of colloidal state. 4. Learning and understanding of catalysis, types of catalysis and characteristics of catalyzed reactions. 5. To understanding the chemical bond and its different types of bonds. 6. Learning the Concept of hybridization and study of VSEPR & Molecular Orbital theory.
05		<p>CCCP-1 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.
06	B.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"> 1. Learn the mechanism of name reactions. 2. Know the Synthesis and Reactions of Aromatic Carboxylic and Sulphonic acids. 3. Know the Synthesis and Reactions of Organometallic compounds. 4. Learn the synthesis, mechanism, applications of active methylene compounds. 5. Gathering basic knowledge of Oils, Fats, Soaps and Detergents. 6. Understand the basic principle and application of Qualitative Analysis. 7. Know the Classification, Properties of Non- aqueous solvents.
07	B.SC. S. Y.	<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"> 1. After completion of these courses students should be able to, 2. Write an expression of Davisson-Germer experiment.

		<ol style="list-style-type: none"> 3. Derive Schrodinger wave equation. 4. Understand De-Broglie's hypothesis and uncertainty principle. 5. Solve the numerical problems based on De-Broglie. 6. Understand concept of entropy. 7. Understand statements of first, second and third law of thermodynamics. 8. Know the meaning of phase, component and degree of freedom. 9. Know the nuclear structure & different energy of nuclear. 10. Understand the different steps & procedure in the gravimetric separation method.
08	B.SC. S. Y.	<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.
09	B.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	B.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	B.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

		<p>potentiometer and conductivity meter.</p> <ol style="list-style-type: none"> Find pka value on pH meter. Verify Lambert-Beer's law colorimetrically and determine unknown concentration of the solution. Determine energy of activation. Determine heat of solution. Study the effect of solute on CST of phenol-water system. Determine the enthalpy of ionization of weak acid / weak base. Determine partition coefficient. Separations of elements from each other & analysis by volumetric method.
12	B.Sc. T.Y.	<p>DSEC- 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"> Learn the mechanism of Electrophilic Substitution reaction of Heterocyclic Compounds Know the characteristics, Classification and synthesis of Drugs and Dyes Explaining theories of Color and chemical constitution of Dyes Gathering basic knowledge of Alkaloids, Vitamins and Pesticides Understand the basic principle and application of coordination complexes Know the application of elements in Medicine
13	B.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"> Analyze Rotational, Vibrational and Raman Spectra Interpret the theoretical and experimental methods of chemical kinetics Know the theory and application of Distribution law Explain the Nomenclature, classification and application of Organometallic Compounds Illustrate the classification and application of Metal Carbonyls
14	B.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"> To learn the basic principle and terms used in UV, IR & NMR Spectroscopy Acquire the fundamental knowledge of classification and Synthesis of Amino Acid and Peptides Describe the types of Rearrangement Postulates and limitations of VBT and CFT Calculation of CFSE for Tetrahedral and Octahedral Complexes Explain the types of electronic transition and selection rule Apply spectroscopic techniques in analyzing the structure of simple organic Molecules

15	B.Sc. T.Y.	DSEC-VI (Section B) Physical & Inorganic Chemistry (P-XV) After completion of syllabus students will be able to understand following outcomes <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
16	B.Sc. T.Y.	DSEC V & VI (Section-A) Organic + Inorganic Chemistry (P-XVI) After completion of syllabus students will be able to understand following outcomes <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
17	B.Sc. T.Y.	DSEC V & VI (Section-B) Physical + Inorganic Chemistry (P-XVII) After completion of syllabus students will be able to understand following outcomes <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

Department of Botany
B.Sc. Programme Objectives

Sr. No.	Program	Program objective	Program Specific Objectives
1	B.Sc. Botany	Studying plant sciences prepares the student for a career working in either an educational institution or an industry in which can be directly involved	PSO1. To expand and increase current knowledge about plants PSO2. to ensure up-to-date level of Understanding of plant sciences.

		<p>in the research and development and Knowledge of modern and applied plant science and excellent career prospects.</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

Sr. No.	Course	Course outcome
2	B.Sc. F.Y.	<p>CO Paper- I: Diversity of Microbes</p> <ol style="list-style-type: none"> 1. to expose themselves to the diversity of life forms 2. To make aware of Natural resources 3. To appreciate and apply ethical principles to plant science research 4. To develop ability to work on their own and make them fit for society
		<p>CO paper II: Cell and molecular biology</p> <ol style="list-style-type: none"> 1. The student will be able to distinguish the Prokaryotic and eukaryotic cell 2. Ability to understand Cell organelles. 3. The students will be able to understand macromolecules of cell.
		<p>CO Paper – III. Diversity of Cryptogams</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. Genetics and Plant Breeding</p> <ol style="list-style-type: none"> 1. The students know the process of inheritance of characters .

		<ol style="list-style-type: none"> 2. Ability to describe dominant and recessive characters. 3. Know the plant breeding techniques. 4. Describe the functions Hybridization . 5. Understanding the process of plant introduction and acclimatization.
		<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.
3	B.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. 5. Learn the structure and functions of Endocrine glands.
		<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 process 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

		<p>laboratory equipment.</p> <ol style="list-style-type: none"> 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
4	B.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</p> <ol style="list-style-type: none"> 1. Students learn to determine osmotic potential 2. Study effect of light colours on photosynthesis. 3. Students Learn different physiological experiments. 4. Students Acquire knowledge on biotechnological skills. 5. Students Learn qualitative tests for secondary metabolites
		<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
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Department of Zoology

Programs offered: B.Sc. Zoology.

Sr. No.	Program	Program objective	Program Specific Objectives
	B.Sc. Zoology	Inspire the students for pursuing higher studies in Zoology and for becoming an entrepreneur and also enable students to get employed in the Biological research Institutes Industries, Educational Institutes and in the various concerning department of State and Central Government based on subject Zoology.	<p>PSO1. To provide through knowledge about various animal sciences from primitive to highly evolved animal groups.</p> <p>PSO2. To make the students aware of applications of Zoology 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 make the students aware about conservation and sustainable use of Biodiversity.</p> <p>PSO6. To inculcate interest and foundation for further studies in Zoology.</p> <p>PSO7. To address the socio- economical challenges related to animal sciences.</p> <p>PSO8. To facilitate students for taking up and shaping a successful career in Zoology.</p>

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

Sr. No.	Course	Course outcome
	B.Sc. F.Y.	<p>CO Paper- I: Life and diversity animal –I</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: Cell Biology</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.
		<p>CO Paper – III. Life and diversity of animal II (Chordata)</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 IV. Developmental Biology</p> <ol style="list-style-type: none"> 1. The students will able to identify and understand the development of animals 2. Ability to understand the identify particular developmental stages along with any kinds of anomalies if present. 3. The learner will be able to understand the developmental stages in different animals.
	B.SC. S. Y.	<p>CO Paper VI- Genetics</p> <ol style="list-style-type: none"> 1. Understand the organization and functions of genetic material in the living world. 2. Students will be able to understand the inheritance and variation from generation after generation 3. Students will be able to understand the chromosomal abnormalities at cellular level. 4. Students will be able to understand the behavior of gene and their expression in the for of external characters.
		<p>Co Paper VII Comparative Anatomy And Physiology</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 – VIII Genetic Engineering And Evolution</p> <ol style="list-style-type: none"> 1. The student will be able to identify the suspected person which is suspected in any kind of criminal case. 2. The learner will be able to understand paternity of suspected child. 3. Students will be able to understand inheritance and variations with respective evolution.

		<p>CO paper-IX Endocrinology, Histology And Biochemistry</p> <ol style="list-style-type: none"> 1. The student will be able to identify the different gland is located in the body of animal. 2. The learner will be able to understand the hypo secretion and hyper secretion of endocrine gland. 3. students will be able to understand different disease causes due to the deficiency of gland 4. Students will bale to understand the histological structure and function of different organ in the body. 5. Students are able to understand the different biological reaction related to the metabolism of food.
	B.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

		<p>particular emphasis on the biology, assessment, and management 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 Microbiology

Programs offered: B.Sc. Microbiology, 2018-2019

Sr. No.	Program	Program objective	Program Specific Objectives
	B.Sc. Microbiology	Inspire the students for pursuing higher studies in Microbiology and for becoming an entrepreneur and also enable students to get employed in the Biological research Institutes Industries, Educational Institutes, Pharma industry, Pathology labs and in the various concerning department of State and Central Government based on subject Microbiology.	<p>PSO1. To provide through knowledge about various microbial diseases and their effects on humans.</p> <p>PSO2. To make the students aware of applications of Microbiology subject in various pharma Industries, pathological labs.</p> <p>PSO3. To highlight the potential of various branches of Microbiology to become an entrepreneur.</p> <p>PSO4. To equip the students with skills related to laboratory as well as field based studies in the field of microbiology.</p> <p>PSO5. To make the students aware about different useful microorganisms.</p> <p>PSO6. To inculcate interest and foundation for further studies in Microbiology.</p> <p>PSO7. To address the socio-economical challenges related to Microbial challenges.</p> <p>PSO8. To facilitate students for taking up and shaping a successful career in Microbiology.</p>

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

Sr. No.	Course	Course outcome
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	B.Sc. F.Y.	<p>CO Paper-I: Introductory Microbiology</p> <ol style="list-style-type: none"> 1. To study scope of microbiology. 2. To study development of microbiology. 3. Characteristics of microorganisms.
		<p>CO Paper- II: MICROBIOLOGICAL TECHNIQUES (P-II)</p> <ol style="list-style-type: none"> 1. The student will be able to use different types of micescopes with their principle. 2. Ability to understand the micerobial staining techniques. 3. Ability to understand sterilization techniques. 4. To understand microbial growth factor.
		<p>CO paper III: Basic Microbiology & Biomolecules</p> <ol style="list-style-type: none"> 1. The student will be able to study Basic concepts of shape, arrangement, and size of prokaryotes cells, Importance of cell shape, cell size in rods and cocci.. 2. Ability to understand Classification of viruses. 3. To study the different biomolecules.
		<p>CO Paper IV. Microbial Physiology</p> <ol style="list-style-type: none"> 1. The student will be able to study culture media. 2. Ability to understand reproduction and growth in microorganisms. .
		<p>CO Paper V (Practical): Annual Practical's based on Section A & Section B of CCMB I & CCMB II (PV)</p> <ol style="list-style-type: none"> 1. Ability to understand the Principle of autoclave, hot air ovan, Laminar air flow etc. 2. Ability to stains of different culture medium. 3. Students would be able to Preparation of culture media 4. Students would be able to learn isolation technique.
	B.SC. S. Y.	<p>CO Paper VI- APPLIED MICROBIOLOGY</p> <p>On successful completion of the course, the students will be able to</p> <ol style="list-style-type: none"> 1. Sources and scope of microorganisms. 2. Microbial examination of water. 3. Microbiology of sewage water.
		<p>Co Paper VII IMMUNOLOGY</p> <p>On successful completion of the course, the students will be able to</p> <ol style="list-style-type: none"> 1. Types of infections, sources of infection, modes of transmission, Microbial pathogenicity, Aggressive factors of pathogens 2. General properties of antigen, antigen specificity, bacterial antigens. 3. Antigen antibody reactions.
		<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

		<p>and number of microorganisms in food.</p> <p>2. signification of microorganisms in soil, soil as culture medium.</p> <p>3. Microbial interaction, association and ecology.</p>
		<p>CO paper-IX Medical Microbiology</p> <p>1. Students can understand Pathogenesis, Clinical features, laboratory diagnosis, epidemiology, treatment of cholera, typhoid etc.</p> <p>2. Students can understand different infections.</p>
		<p>CO Paper X (Preactical) Practical Paper: CCMBP II [CCMB III & IV (Section A)]</p> <p>1. Students able to Bacteriological examination of air by solid impingement techniques.</p> <p>2. Students able to Bacteriological examination of water: Quantitative analysis: MPN method</p> <p>3. Ability to understand the Bacteriological examination of food by SPC method</p>
		<p>CO Paper XI (Practical) Practical Paper: CCMBP III [CCMB III & IV (Section B)]</p> <p>1. Students would be able to Blood staining by Leishman's / Giemasa's method.</p> <p>2. Metachromatic granule staining (Albert's Method)</p> <p>3. Ability to RBC counting.</p> <p>4. Ability to WBC counting.</p>
	B.Sc. T.Y.	<p>CO Paper XII Microbial Genetics DSEMB I (Section A)]</p> <p>1. Students are able to understand Evidences for DNA as genetic material.</p> <p>2. Students are understand General Concepts of DNA Replication.</p> <p>3. Students are help to study Genetic Recombination</p> <p>4. To understand Conjugation and transduction.</p>
		<p>CO Paper XIII Microbial Metabolism DSEMB I (Section B I)</p> <p>1. Students will be able to study Physicochemical properties of enzymes.</p> <p>2. Students understand Role of nucleotides in metabolism.</p> <p>3. Students are able to study Respiratory electron transport chain in bacteria.</p>
		<p>CO Paper XIV: Molecular Biology DSEMB II (Section A)</p> <p>1. Students will be understand Gene expressions.</p> <p>2. Students will be understand DNA repair.</p> <p>3. Student will understand gene regulation. .</p>
		<p>CO Paper XV: Industrial Microbiology DSEMB II (Section B I)</p> <p>1. Students will know various types of industrial microbiology.</p> <p>2. Students will learn different types of Screening techniques.</p> <p>3. Students will able perform different types of purification tecniques</p>

Department of Environmental Science

Programs offered: B.Sc. Environmental Science

Sr. 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

Sr. No.	Course	Course outcome
	B.Sc. F.Y.	<p>CO Paper- I: CCENV I (Section A) Fundamentals of Environmental Science Acquaint the students about the basic concepts of Universe, Biosphere and its components , Biogeochemical Cycles and total Environmental Science . After completion of paper students will understand the Universe, total factors in Environmental</p>
		<p>CO paper II: CCENV I (Section B) Fresh Water: Sources and Uses Prime aim of the paper is to understand the Hydrosphere, sources of water and its various types of uses To understand the importance of water, its sources its global availability</p>

		<p>CO Paper – III CCENV II (Section A) Environmental Ecology Acquaint the students about the concepts of ecology, relations of animals with their surroundings. Students will come to know the importance of ecology and relations of plants and animals with their surroundings</p>
		<p>CO Paper IV. CCENV II (Section B) Fresh Water Treatment Purpose of this paper is the methods of analysis of Water, Water Softening Methods, Water Treatment Methods, Water and water Conservation practices Students will able to treat the water, according to the need and place of use of water.</p>
	B.SC. S. Y.	<p>CO 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>CO 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>CO 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>
	B.Sc. T.Y.	<p>CO 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</p>

		<p>proper treatment. Students will come to know that</p> <p>01. Various sources of water and waste water. 02. It's quality through physico – chemical and biological characters</p>
		<p>CO 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>CO 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 / secondary / tertiary treatment</p>
		<p>CO Paper – XVIII DECENV II [(Section B) Elective II]: Environmental Management To understand various movements of environmental protection management through software tools and environmental laws. Students will understand the principles of environmental management and various historical movements in environmental protection. And various laws and legislations of environmental protection</p>
SKILL ENHANCEMENT COURCES B.Sc.II and III YEAR		
	1. Skill Enhancement Course	<p>CCENV-I (A) Soil Testing Analyst The main objective of the course is to provide the student with a formalized way to build their fundamental knowledge and skills within the different areas of soil science to enhance their professional skills testing or similar topics that provide information about soil Soil testing analyst works like laboratory technician, who is responsible for collecting and analyzing soil samples to determine whether the soil is suitable for agricultural practices, gardening or plantation or natural uses.</p>
	2. Skill Enhancement Course	<p>CCENV II (Section B) Composting from Solid Waste The main objective of course is to improve the awareness and skills of the students with modern techniques of collections, transportations and analysis of solid waste materials for production of organic manure and research activities. Soil testing analyst will able to Use of instruments and their</p>

		general maintenance, interpretation of analytical data and formulation of reports/recommendations
	3.Skill Enhancement Course	DECENV III Paper - XV Soil conservation Practices The main objective of the course is to imbibe the importance of soil and its development. Student will acquire the soil management skill, will know how to check the nutrient contents, deficiencies and its impact on food
	4.Skill Enhancement Course	DECENV- IV Paper - XXII Training course on waste water Analysis The main objective of the course is to make students aware and expert in handling waste water its analysis and use of various techniques and instruments. This course is designed to train students to safely and effectively operate advanced wastewater treatment plants in future

Department of Physics

Programs offered: B.Sc. Physics

Sr. No.	Program	Program objective	Program Specific Objectives
	B.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</p>

			activities as they progress in the program PSO8. To facilitate students for taking up and shaping a successful career in Physics.

Courses offered:

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

Sr. No.	Course	Course outcome
	B.Sc. F.Y.	<p>CO Paper- I: Mechanics and properties of matter</p> <ol style="list-style-type: none"> 1. Students will be introduced to the world of mechanics and properties of the matter that exists in different phases i.e., solid, liquid and gas. 2. Laws of motion and its applications to various systems studied in this paper is of fundamental nature and enable the students to handle different types of problems and is the pre-requisite for several other advanced courses in physics and chemistry. 3. The pre-requisite for this course is knowledge of calculus, wave theory and modern physics. This course is the core course and every student pursuing B Sc with physics as one of the optional is required to study this course.
		<p>CO paper II: Mathematical Methods in Physics</p> <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

		<p>for generating such fields, polarization and induction effects, understand the basic difference between the DC and AC circuits and their functioning.</p> <ol style="list-style-type: none"> 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.
	B.SC. S. Y.	<p>CO 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 reflection properties, formation of standing waves, their applications in resonance tubes, energy distribution in the standing waves, free and forced vibrations, acoustics and acoustical designs and also introduces the students to the concepts of ultrasonic waves and their applications. 2. This course is the pre-requisite for several advanced courses in physics and chemistry and is necessary for understanding the behavior of the mater when mechanical waves passes through them. 3. Pre-requisite for this course is the knowledge of elementary mathematics and calculus, wave theory, etc. This forms the core course of the programmes and every student pursuing B Sc with physics as one of the optional is required to study this course
		<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

		<p>classification on the basis 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.</p> <ol style="list-style-type: none"> 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</p> <p>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

		<p>the computational methods applicable for solving problems in physical situations.</p> <p>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>
		<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.
	B.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 of Electronics

Programs offered: B.Sc. Electronics

Sr. No.	Program	Program objective	Program Specific Objectives
	B.Sc. Electronics	Inspire the students for pursuing higher studies in Electronics and for becoming an entrepreneur and also enable students to get employed in the Electrical research Institutes ,Industries, Educational Institutes and in the various	<p>PSO1. To provide through knowledge about various electricity principles</p> <p>PSO2. To make the students aware of 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</p>

		concerning department of State and Central Government based on subject Electronics.	field based studies PSO5. To introduce learners to fundamental concepts of electronics, basic components, semiconductor devices, digital electronics, working and uses of some indispensable laboratory instruments. PSO6. To inculcate interest and foundation for further studies in Electronics. PSO7. To address the socio-economical challenges related to electrical sciences. PSO8. To facilitate students for taking up and shaping a successful career in Electronics.

Courses offered:

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

Sr. No.	Course	Course outcome
	B.Sc. F.Y.	CO Paper- I: Basic Electronics and Network Analysis After completion of this course students will be – <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.
		CO paper II: Basic Digital Electronics After completion of this course students will be – <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.
		CO Paper – III. Semiconductor Devices and Electronic Instruments After completion of this course students will be – <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. 3. able to distinguish between unregulated & regulated power supply and its significance. 4. able to demonstrate the use of multi-meter & CRO

		<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.
	B.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> <p>1.Students will be able to design , build and study various electronic circuits like amplifiers , oscillators, multivibrators etc.</p>
		<p>CO Paper XI (Practical) Laboratory Course (Practical based on P-VII & IX)</p>

		1. Students will be able to write and perform various programs of microprocessor and microcontroller.
	B.Sc. T.Y.	CO Paper XII -Communication Electronics-I 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

Courses offered:

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

Sr. No.	Course	Course outcome
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01	B.Sc. F.Y.	<p>Paper – I Differential calculus</p> <p>After successful completion of the course student will be able to</p> <ol style="list-style-type: none"> 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.
02	B.Sc. F.Y.	<p>Paper II: Algebra and Trigonometry</p> <p>After successful completion of the course student will be 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.
03	B.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.
04	B.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.

		<ol style="list-style-type: none"> 5. Transform the equation of a plane to the normal form. 6. Transform equation of line from the unsymmetrical to the symmetrical form. 7. Find the length of perpendicular from a point to a plane. 8. Find the angle of intersection of two spheres. 9. Understanding concepts of plane of contact.
05		<p>CCCP-1 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.
	B.Sc. F.Y.	<p style="text-align: center;">Paper V: (PRACTICAL PAPER)</p> <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.
06	B.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.
07	B.SC. S. Y.	<p style="text-align: center;">Paper VII: Group Theory</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. 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.
08	B.SC. S. Y.	<p style="text-align: center;">Paper VIII: Ordinary 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. Understanding concept of solution of differential equations, order and degree. 2. Transform the equations into variable separable form. 3. Transform first-order non-homogeneous equation in x and y to homogeneous equation in x and y and solve it. 4. Find the equations that can be resolved into components equation and solve it. 5. Solve Clairaut's equation. 6. Find the solutions when the auxiliary equations are equal, different, repeated, and imaginary roots. 7. Find the solution of the exact differential equation, rules of finding the integrating factor. 8. Transform non-linear equation to linear equation and solve it. 9. Find the solution of linear equation with variable coefficients. 10. Transform the equations to the homogeneous linear form. 11. Transform the homogeneous linear equation with constant coefficient by changing the independent variable x to z
09	B.SC. S. Y.	<p style="text-align: center;">Paper IX: Real Analysis-II</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. 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

		<p>and Riemann sum</p> <ol style="list-style-type: none"> 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.
10	B.SC. S. Y.	<p style="text-align: center;">Paper X: Ring Theory</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. Understand given algebraic structure is a Ring or not. 2. Construct the examples of ring with known examples of ring. 3. Differentiate between zero-divisors and non-zero-divisors in a given ring. 4. Check whether given two rings are isomorphic or not. 5. Check whether the given ideal of a ring is a principal ideal or not. 6. Understand the concepts on principal ideal ring 7. Understand concepts on Euclidean rings.
11	B.SC. S. Y.	<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.
12	B.Sc. T.Y.	DSEC- V (Section A) Organic + Inorganic Chemistry (P-XII)

		<p>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
13	B.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 for furthering their potential and capabilities in the subject.

		<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:
Department of Computer Science

Sr. No.	Course	Course outcome
01	B.Sc. F.Y.	<p>Paper No. I Programming Logic Concepts 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
02	B.Sc. F.Y.	<p>Paper No. II Designing of Web Pages Using HTML 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.
03	B.Sc. F.Y.	<p>Paper No.III Introduction to Data Structure 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.
04	B.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.
05	B.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,
06	B.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>
07	B.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: Upon completion of this course, students will be able to do programming independently and will also be able to build small applications.</p>
08	B.SC. S. Y.	<p>Skill Enhancement Course-I: A) PROGRAMMING USING SCILAB OR B) NETWORKING CONCEPTS Skill Enhancement Course-I: 204 (A) PROGRAMMING USING SCILAB Course Objectives: To learn basic functioning in SCILAB. Course Outcome: Students will be able to understand the main features of the SCILAB program development environment, to implement simple mathematical functions/equations in numerical computing environment such as SCILAB.</p>
09	B.SC. S. Y.	<p>Skill Enhancement Course-I: 204 (B) PC Installation & Networking Course Objectives: The course is designed to build practical skills in Assembling & maintenance of the personal desktop computer, installation of operating system and software's as well as to setup the network. Course Outcome: Students would have knowledge of computer hardware and peripherals, their installation, PC assembly, trouble shooting.</p>
10	B.SC. S. Y.	<p>Paper No. VIII Computer Networks Course Objectives: Understanding basics of computer networking, connectivity techniques and related protocols. This introduces the students to computer networks and concentrate on building a firm foundation for understanding data communication. Course Outcome: Students would be able to choose, escalate and establish a computer network</p>
11	B.SC. S. Y.	<p>Paper No. IX Java Programming Course Objectives: 1. To learn why Java is useful for the design of desktop and web applications. 2. To learn how to implement object-oriented designs with Java. 3. To identify Java language components and how they work together in applications.</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>
	B.SC. S. Y.	<p>Paper No. SEC-II Skill Enhancement Course-II: (A) Introduction to Web Applications OR (B) Digital Media Concepts Course Code: OCS-208 [Marks: 50] Skill Enhancement Course-II: 208 (A) Introduction to Web Applications Course Objectives: The course is designed to build practical skills of development of web applications. Learn how to setup a quick and easy website with the new free Google sites. Course Outcome: Knowledge of website development and design specialization</p>
	B.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>
	B.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</p>

		<p>operating system, and the interactions among the various components. Further, they will be able to independently program in C++ .</p> <p>Practical's based on theory papers-VI & VII (OS & C++)</p> <p>At least 20 (10 from each paper) practical exercises</p>
12	B.Sc. T.Y.	<p>Paper No. XII Software Engineering</p> <p>After completion of this course students should be able to,</p> <ol style="list-style-type: none"> 1 Understand Software Engineering Process. 2 Understand Requirements and components of Software Engineering. 3 Understand software design and software testing fundamentals.
13	B.Sc. T.Y.	<p>Paper No. XIII [A] Visual Programming</p> <ol style="list-style-type: none"> 1 To learn Graphical User Interface Language. 2 To develop an application using GUI Language. 3 Implement VB programs to solve simple problems.
	B.Sc. T.Y.	<p>Paper No. XIII [B] Cloud Computing</p> <ol style="list-style-type: none"> 1 To Study basics of cloud computing, and comprehend the terminology, tools and technologies associated with today's top cloud platforms. 2 To provide the programmer's perspective of working of Cloud Computing. 3 Implement Simple Cloud programs to solve simple problems.
	B.Sc. T.Y.	<p>Skill Enhancement Course-III (SECCS-III)</p> <p>Data Mining</p> <ol style="list-style-type: none"> 1 To create awareness about self-employment and motivate the students to go for self-employment by becoming Data Analytics. 2 To familiarize the students to the practical world of business data processing and decision making.
	B.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>
	B.Sc. T.Y.	<p>Paper No. XIV</p> <p>Relational Database Management Systems & PL/SQL</p> <ol style="list-style-type: none"> 1 To learn Relational Database Management system and database languages. 2 To learn Relational Algebra and Calculus. 3 To study Integrity Constraints and PL/SQL 4 To develop an application using PL/SQL.
	B.Sc. T.Y.	<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>
	B.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>
	B.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>

