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Mahatma Gandhi Shikshan Mandal's **ARTS, SCIENCE AND COMMERCE COLLEGE** Chopda Dist.Jalgaon, P.B.No.14, Pin - 425107 Affiliated to Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

NAAC Re-Accredited 'B' Grade

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Programme Outcomes (PO's), Programme Specific Outcomes (PSO's) and Course Outcomes (CO's)

Academic Year 2020-21

Department of Marathi

Programme Outcomes: B.A. Marathi

Department of Marathi	After successful completion of three year degree program
	in Marathi a student should be able to;
Programme Outcomes	 नाटकाची अभिरुची विकसित करून घेतो तसेच
	नाटकाच्या चिकित्सक अभ्यासाची क्षमता विकसित होते.
	२. मराठी एकांकिकांच्याद्वारे विद्यार्थांमध्ये लेखन
	कौशल्यविषयक
	दृष्टीकोन निर्माण करता येतो.
	 संवादाची क्षमता विकसित करता येते आणि भाषिक
	कौशल्य विकसित करणे.
	४. दलित एकांकिकांमधून सामाजिक निर्माण करून
	समाजकार्यासाठी दिशा दाखविता येते.
	 एकांकिकांची आस्वाद क्षमता विकसित होते.
	 हलित गद्यातून थोर पुरुष व स्रीयांच्या जीवनचरित्रातून
	नीती-आचरणे चिंतनशीलता व भावात्मकता सूत्रांचा
	परिचय करून देता येतो तसेच स्री व पुरुष यांच्या
	जीवनाच्या विविध पैऌूंचे दर्शन घडविता येते.
	 मध्ययुगीन मराठी वार्ड्मयाच्या निर्मितीमागील प्रेरणा,
	इतिहास, स्वरूप व वैशिष्टये तसेच विविध साहित्यकृतींचा
	स्थूल परिचय करून घेता येतो.
	 वारकरी संप्रदायातील संतकवींच्या काव्यनिर्मितीचे
	स्वरूप, बखर वाड्मयाचे स्वरूप व वैशिष्टयांचा परिचय
	करून देऊन बखर व अभंग यांची आस्वाद क्षमता
	विकसित करता येते.
	 नाट्य अभिरुची विकसित करता येते तसेच नाट्य
	संकल्पना नाट्य आस्वादाची डोळस क्षमता विकसित
	करता येते.
	१० भाषेचे स्वरूप, कार्य, भाषा उत्पतीचे सिद्धांत, भाषाकुल
	संकल्पना, प्रांतिक भेद, मराठीच्या प्रमुख बोलीचा परिचय,
	भाषाविषयंक असलेले गैरसमज, मराठीवरील अन्य भाषांचा
	पडलेला प्रभाव तसेच मराठी भाषा उत्पतीविषयीची मते
	जाणून घेऊन मराठीची पूर्वपीठीका लक्षात घेता येते.

•• गगरी त्याकगणनी आस्तार भगता विकसित करून
आकरुन क्षमता विकसित करणे.
१२ लोकरंगभूमीची संकल्पना, स्वरूप, वैशिष्टये, लोकसाहित्य व लोकरंगभूमी यांचा परस्परसंबंध तसेच वही, भारुड, दशावतार,तमाशा, लोकनाट्य, पथनाट्य, सत्यशोधक जलसे,रिंगणनाट्य व कीर्तन यांच्या स्वरूप, वैशिष्टयांचा परिचय करून देऊन लोकसाहित्यविषयक अभिरुची विकसित करता येते.
१३ हकश्राव्य माध्यमांचा परिचय करून घेऊन त्यासाठी लेखन व संवाद कौशल्य यांचा परिचय करून देऊन हकश्राव्य माध्यमांचे कार्य, उपयुक्तता, कार्यक्रमांसाठी लेखन तंत्र व दूरचित्रवाणीसाठी निवेदन कौशल्य विकसित करता येते.
१४ आधुनिक समाज माध्यमांचा परिचय करून घेता येतो त्याचबरोबर त्यांचे कार्य, उपयुक्तता आणि ईमेल, ब्लॉग फेसबुक, ट्विटर, व्हाटसअप, युट्युब यासाठी लेखन तंत्र व निवेदन कौशल्य विकसित करता येते.
१७ निबंध लेखनाचे स्वरूप, घटक, प्रकार यांचा परिचय करून घेता येतो त्याचबरोबर निबंध लेखनाचा सराव करून घेऊन निबंध लेखनाचे कौशल्य विकसित करता येते.
१६ कथेची अभिरुची विकसित करून घेतो तसेच कथेच्या चिकित्सक अभ्यासाची क्षमता विकसित होते.
१७ यशस्वी उद्योजकांच्या चरित्राद्वारे विद्यार्थांमध्ये व्यावसायिक दृष्टीकोन निर्माण करता येतो.
१८ संवादाची क्षमता विकसित करता येते आणि भाषिक कौशलय विकसित करणे.
१९ उत्तम दर्जाची व्यावसायिकवृत्ती निर्माण करून यशस्वी उद्योगाची दिशा दाखविता येते.
२० कादंबरीची आस्वाद क्षमता विकसित होते.
२१ पौवार्स्य व पश्चिमात्य साहित्यशास्त्रातील विविध संकल्पना, साहित्याचे स्वरूप, साहित्याचे प्रयोजन आणि साहित्याची निर्मिती प्रक्रिया यांचा स्थूल परिचय करून घेता येतो.
२२ नाट्य अभिरुची विकसित करता येते तसेच नाट्य संकल्पना नाट्य आस्वादाची डोळस क्षमता विकसित करता येते.
२३ मराठी व्याकरणाची आस्वाद क्षमता विकसित करून आकलन क्षमता विकसित करणे.

Drogramma Specific	। प्रतांकिका गा गांका प्रकारने खाला जावलाक लेखन
Programme Specific	१. एकाकिका या नाट्य प्रकारच स्वरूप, वाटचाल, लखन
Outcomes	स्वरूप व वाश्रष्टय जाणून घण.
	२. वाड्मयीन अभिरुची विकसित करणे.
	 ललित गद्य वाड्मय प्रकारची संकल्पना ,स्वरूप, वैशिष्टये
	वाटचाल यांची माहिती करून घेणे व ललित गद्य
	लेखनातील विविध प्रकारांची , बदलत्या रूपांची ओळख
	करून घेणे.
	 संवादासाठीची विविध भाषिक कौशल्य विकसित करणे.
	 मध्ययुगीन मराठी वाड्मयाचा इतिहास, निर्मितीमागील
	प्रेरणा, स्वरूप, वैशिष्टये यांचा परिचय करून घेणे.
	 मराठीच्या कालिक भेदांचे स्वरूप, प्रांतिक भेद, बोली
	भाषांची स्वरूप, वैशिष्टये , भाषेविषयक असलेले गैरसमज
	यांची ओळख करून घेणे.
	७. लोकरंगभमीची संकलपना, स्वरूप, वैशिष्टये ,
	लोकसाहित्य व लोकरंगभमी यांचा असलेला परस्पर संबंध
	समजन घेणे.
	८. आधनिक समाज माध्यमांचा परिचय, कार्य, उपयक्तता.
	त्यासाठीचे लेखन कौशलय आणि निवेदन कौशलय यांचा
	परिचय करून घेणे
	९ निबंध लेखनाचे स्वरूप घटक प्रकार समजन घेणे व
	नितंध लेखनाचे कौशलय आत्मसात करणे
	• उत्ता दर्जनी व्यावगणिकवनी निर्णाण करून गुरुपवी
	रण्डतम् द्वापा व्यावसायिकपृता निमाणं करून परास्य
	उधागांचा दिशा देखावण
	१९ सवादासाठीची विविध भाषिक कौशल्य विकसित करणे.
	१२ पौवार्त्य व पश्चिमात्य साहित्यशास्त्रातील विविध
	संकल्पना, साहित्याचे स्वरूप, साहित्याचे प्रयोजन आणि
	साहित्याची निर्मिती प्रक्रिया समजावून देणे.
	१३ नाटकातील सखात्मिका-शोकात्मिका यांचे स्वरूप व
	वैशिष्ट्रिये

Course Outcomes B. A. Marathi

एफ.वाय.बी.ए. मराठी जनरल	१) मराठी वाड्मयातील कथा या मुलभूत वाड्मय प्रकारची ओळख
(विशिष्ट वाड्मय प्रकारचा	होण्यास मदत होते.
अभ्यास-कथा)	२) कथा, तिचे स्वरूप, घटक आणि प्रमुख प्रकारांचा परिचय
	विद्यार्थ्यांना होतो.
	३) मराठी कथेच्या आजवरच्या वाटचालीचा परिचय विद्यार्थ्यांना
	होतो.
	४) कथेच्या अभ्यासाची दृष्टी विद्यार्थ्यांमध्ये रुजविण्यास सदर
	अभ्यासक्रमाची मदत होते.
एस.वाय.बी.ए. मराठी जनरल-	१) विद्यार्थ्यांना वैचारिक गद्य लेखनाच्या परंपरेची ओळख करून
वैचारिक गद्य लेखनाचा अभ्यास	र्घता आली.
(शेतकऱ्याचा आसूड –महात्मा	२) विद्यार्थ्यांना महात्मा फुले यांचे जीवन, कार्य व त्यांची वैचारिक
फुले)	जंडणघडण याबाबत माहिती जाणून घेता आली.
	३) शेतकऱ्याचा आसूड पुस्तकातील वैचारिक आशयाची स्वरूप व
	वैशिष्टयांचा तसेच वांड्मयीन गुण वैशिष्टयांची ओळख करून घेता
	आली.
	४) चरित्र-आत्मचरित्र लेखनाचे सामाजिक व वाड्मयीनदृष्ट्या
	महत्व विद्यार्थ्यांना समजण्यास मदत होते.
	५) मराठीतील चरित्र व आत्मचरित्र लेखन परंपरेचा परिचय
	विद्यार्थ्यांना करून घेता येतो.
	६) चरित्र -आत्मचरित्र लेखनाची सामाजिक वैशिष्टयपूर्णता व
	लेखनपद्धती याबाबत प्रात्यक्षिकाच्या माध्यमातून विद्यार्थ्यांना
	जाणीव करून घेता येते.
एस.वाय.बी.ए. मराठी एस-१ -	१) विद्यार्थ्यांना कादंबरी या वाड्मय प्रकारची ओळख करून घेता
वाड्मय प्रकारचा अभ्यास	आली.
(कादंबरी व कविता)	२) विद्यार्थ्यांना आधुनिक काळातील कादंबरीच्या प्रेरणा समजून
	घेता येतात.
	३) अवकाळी पावसाच्या दरम्यानची गोष्ट या कादंबरीचा आशय,
	त्यातील संघर्ष, पात्रचित्रण यांचे प्रातिनिधिक स्वरुपात अध्ययन
	करण्यास मदत होते.
	४) अवकाळी पावसाच्या दरम्यानची गोष्ट या कादंबरीतील ग्रामीण
	जीवनवास्तवाचे स्वरूप विद्यार्थी समजून घेतात.
	५) कादंबरीचे वाड्मयीन मूल्यमापन करून घेण्याची दृष्टी
	विकसित होते.
	६) कविता या वाड्मय प्रकारचे स्वरूप, वैशिष्टये, वाटचाल, प्रकार
	व घटक यांचा परिचय विद्यार्थ्यांना करून घेता येतो.
	७) माझे विद्यापीठ या कविता संग्रहातील जीवन जाणिवांचा शोध
	विद्यार्थी घेतात.
	८) कवितेचे वाड्मयीन आकलन व मूल्यमापन करण्याची
	विद्यार्थ्यांची दृष्टी विकसित होते.

एस.वाय.बी.ए.	१) पौवार्त्य व पश्चिमात्य साहित्यशास्त्रातील विविध संकल्पना
मराठी विशेषस्तर -२	यांचा स्थूल परिचय विद्यार्थ्यांना करून घेता येतो.
(साहित्य विचार-भारतीय व	२) साहित्याचे स्वरूप, साहित्याचे प्रयोजन आणि साहित्याची
पाश्चात्य)	निर्मिती प्रक्रिया यांचा विद्यार्थ्यांना परिचय होतो.
	३) साहित्याचे विविध उपप्रकारांचे स्वरूप व वैशिष्टयांचा स्थूल
	परिचय विद्यार्थ्यांना करून घेण्यास मदत होते.
	४) साहित्य निर्मितीच्या प्रधान व गौण कारणांची ओळख विद्यार्थ्यांना
	करून घेता येते.
	५) साहित्याच्या भाषेचे स्वरूप व शब्द शक्तीचे प्रकार समजून घेता येतात.
	६) साहित्यातील रस प्रक्रिया संस्कृत साहित्यिकांनी मांडलेलया रस
	विचाराच्या आधारे विद्यार्थ्यांना समजन घेता येतात.
	७) साहित्यातन प्राप्त होणाऱ्या आनंदाचे स्वरूप जाणन घेता येते
	८) साहित्याची आस्वाद प्रक्रिया विद्यार्थ्यांना समजन घेण्यास मदत
	होते.
एस.वाय.बी.ए. मराठी SEC –	१) मुद्रित शोधनाचे स्वरूप व आवश्यकता जाणून घेता येते तसेच
लेखन कौशल्ये	विद्यार्थ्यांना मुद्रित शोधनाचे कौशलये आत्मसात करता येते.
	२) मुद्रित शोधनाच्या खुणा, अर्थ आणि त्यांचे उपयोजन करण्यास
	विद्यार्थ्यांना मदत होते.
	३) विरामचिन्हे व लेखनविषयक नियमांचे स्वरूप विद्यार्थ्यांना
	जाणून घेता येतात.
	४) मुंद्रितशोधनाचा सराव करण्यास मदत होते.
	५) सर्जनशील लेखनाचे स्वरूप व वैशिष्टये जाणून घेता येतात.
	६) कथालेखन व नाट्य लेखन प्रक्रिया विद्यार्थी समजून घेतात.
	७) विद्यार्थी कथालेखन व नाट्य लेखन यांचा सराव करतात
	८) विद्यार्थ्यांमध्ये सर्जनशीलता रुजविता येते.
एस.वाय.बी.ए. मराठी MIL –	१) वृत्तपत्र या मुद्रित माध्यमांचा विशेष परिचय करून घेता येतो
मुद्रित माध्यमांसाठी लेखन	तंसेच वृतपत्र माध्यमांचे कार्य, उपयुक्तता जाणून घेता येते.
	२) वृत्तपत्र माध्यमांसाठी बातमी लेखन व जाहिरात लेखन तंत्र
	विद्यार्थी अवगत करतात.
	३) वृत्तपत्र माध्यमांसाठी वृत्तलेख लेखन, स्तंभ व सदर लेखन त्यांचे
	स्वरूप व तंत्र विद्यार्थी जाणून घेतात.
	४) नभोवाणी या श्राव्य माध्यमांचा विशेष परिचय करून घेता येतो
	तंसेच नभोवाणी माध्यमांचे कार्य, उपयुक्तता जाणून घेता येते.
	६) नभोवाणी माध्यमांसाठी भाषण लेखन व श्रतिका लेखन तंत्र
	विद्यार्थी अवगत करतात.
	७) नभोवाणी माध्यमांसाठी करावयाच्या यवकांसाठीच्या
	कार्यक्रमाच्या लेखनाचे स्वरूप व तंत्र विद्यार्थी जाणन घेतात.
	८) सरकारी व खाजगी नभोवाणी माध्यमांसाठी करावयाच्या
	निवेदनाचे स्वरूप व तंत्र विद्यार्थी आत्मसात करतात

टी वाय बी ए मराठी जनरल	१) मराठी वाडमयातील एकांकिका व ललित गद्य या मलभत
(तिशिष ताडमय प्रकारना	ताडमय प्रकारची ओलख होण्यास मदत होते
अभ्यास-एकांकिका त ललित	२) एकांकिका व ललित गरा तिचे स्वरूप संकलपना वैशिषये
गटा	ताटचाल आणि प्रमुख एकारांचा प्रश्निय तिदार्श्यांचा होतो
14)	र्पाटपारंग् जागि प्रमुख प्रयोगिती परिवय विद्यार्थां गिरिति.
	जम्यासाया दृष्टा विधाय्यामध्य रुजावण्यास सदर जम्यासक्रमाया गण्डन कोने
- 1 1 1 1 1	
21. di 4. di . et . e	१) मध्ययुगान मराठा वाद्ममयाच्या इतिहासाचा पारचय विद्यार्थ्याना
मध्ययुगान मराठा वाड्मयाचा	
इतिहास	२) विद्यार्थ्यानां मध्ययुगानं मराठा वाड्मयाच्या निम्तामागालं प्ररणां
	, स्वरूप व वीर्शप्टेय याचा परिचय करून देता येती.
	३) शाहिरी काव्य आस्वादक क्षमता विद्यार्थ्यांमध्ये निर्माण
	करण्यास मदत होते.
	४) मध्ययुगीन काळातील वारकरी संप्रदायाच्या प्रमुख संत कवींच्या
	काव्यानिर्मितीचा परिचय करून घेता येतो.
	५) बखर या वाड्मयनिर्मितीची ओळख करून देता येते तसेच
	विद्यार्थ्यांना तत्कालीन समाज व्यवस्था व राजकीय स्थितीचे वास्तव
	रूप समजून घेता येते.
टी.वाय.बी.ए.मराठी एस-४ –	१) भाषेचे स्वरूप, कार्य, भाषा उत्पतीचे सिद्धांत व भाषाकुल
मराठीचा भाषिक अभ्यास	संकलपना अंगांनी जाणवणारी वैशिष्टये विद्यार्थ्यांना समजण्यास
	मदत होते.
	२) 'मराठीच्या कालिक भेदांचे स्वरूप, प्रांतिक भेद व त्यांची
	वैशिष्टये विद्यार्थी समजन घेतात.
	३) मराठीच्या निवडक बोलींचा परिचय विद्यार्थ्यांना होतो.
	४) मराठीवरील अन्य भाषांचा प्रभाव जाणन घेण्यास विद्यार्थी
	शिकतात.
टी.वाय.बी.ए.मराठी जेनेरिक –	१) विद्यार्थ्यांना कीर्तन, भारुड, तमाशा, दशावतार, खान्देशी वही
मराठी लोकरंगभमी	गायन, जलसे, पथनाट्य व रिंगणनाट्य या वाडमय प्रकारची
	ओळख करून घेता आली
	२) विद्यार्थ्यांना कीर्तन, भारुड, तमाशा,दशावतार, खान्देशी वही
	गायन जलसे पथनात्य व रिंगणनात्य प्रेरणा संकलपना व स्वरूप
	समजन घेता येतात
	3) लोकरंगभमीचे स्वरूप तसेच लोकसाहित्य त लोकरंगभमी या
	पारंपारिक रूपांची तैशिषये अध्ययन कर्गायाम पटन होने
	४) लोकनाट्या त लोकरंग्राभमीत्त्या आशनिक ऊत्तांनी प्राहिनी
	तियाश्र्यांन्य अप्रायस्य प्रायस्य आधुनिय रन्याया माहिता
टी तास ही ए प्रस्तरी MU	१) टकथात्रा प्राधाप्रांचा मण्डिनग नितार्श्मांचा होत्रो
टा.आष.आ.९.गराठा MIL – टकश्वाता प्राशामंज्याती केजन्म न	२) टरन्त्राज्य नाष्यनायां यारपय पिद्याप्यांगा होता. २) टरनित्रताणी या प्राध्यपाने कार्य त त्यायत्वत्वा तित्यार्थ्यांचा
্র হন্দগান্দ নাজনারাটা উত্তব ৫ অনান	र) दूरायत्रयाणा या नाव्यनाय प्राप प ७५५५५१११। । पंचाय्याणा ज्यात्नाशाच्च प्राटत होते
त्रपाद	দদগত্পাধ দর্বে চার.

	३) विद्यार्थ्यांना दूरचित्रवाणीसाठीच्या मनोरंजनपर कार्यक्रमासाठीचे
	लेखन स्वरूप व तंत्र अवगत करून घेता येते
	४) विदार्थ्यांचा दर्शनवत्याणीयात्रीच्या जादियात्र लेखनाचे अवस्ता त
	 अ) विद्यार्थ्यां ना दूरा वेत्रवाणात्ताठाव्या आहिराता अखनाव त्त्वरूप व
	तत्र अवगृत करून धता यत.
	५) आधुनिक समाज माध्यमांचे स्वरूप, कार्य व उपयुक्तता समजून
	घेता येते.
	६) ईमेल, ब्लॉग, फेसबुक, ट्विटर, व्हाटसअप, युट्युब या
	माध्यमांसाठी लेखन तंत्र विद्यार्थ्यांना अवगत करता येते. तसेच
	फेसबुक व युट्युब यावरील निवेदन कौशल्य विद्यार्थी जाणून
	घेतात.
टी.वाय.बी.ए.मराठी SEC-	१) निबंध लेखनाचे स्वरूप, संकल्पना , घटक व प्रकार यांचा स्थूल
लेखन कौशल्य- निबंध लेखन	परिचय विद्यार्थ्यांना करून घेता येतो.
	२) निबंध लेखनाचे कौशल्य विद्यार्थी आत्मसात करतात.
	३) विद्यार्थी निबंध लेखनाचे प्रकार लास्खात घेऊन लेखनाचा सराव
	करतात.
	४) ग्रंथ परीक्षण लेखनाचे स्वरूप व लेखन प्रक्रिया विद्यार्थी समजून
	घेतात.
	५) ग्रंथ परीक्षण लेखनाचे कौशलय विद्यार्थी आत्मसात करतात.
	हैं। विद्यार्थी विविध प्रकारातल ग्रंथांचे परीक्षण करून लेखनाचा
	שזות הסרות
	לוא אינוונו.

एफ.वाय.बीएस्सी.मराठी	१) 'माणदेशी माणसं' कथासंग्रहातील कथांची कथानके,
जनरल-कथा आणि संवाद	व्यक्तिचित्रण व प्रसंगवर्णन या अंगांनी जाणवणारी वैशिष्टय
कौशल्ये यांचा अभ्यास	विद्यार्थ्यांना समजण्यास मदत होते.
	२) 'माणदेशी माणसं' कथासंग्रहातील कथांची संघर्ष,निवेदन व
	भाषा या अंगांनी जाणवणारी वैशिष्टय लक्षात येतात.
	३) संवादाच्या औपचारिक व अनौपचारिक प्रकारांचा परिचय
	विद्यार्थ्यांना होतो.
	४) भाषण,सादरीकरण , वादविवाद, सूत्रसंचालन, गटचर्चा या
	संवाद कौशल्यांचे स्वरूप विद्यार्थ्यांच्या लक्षात येण्यास मदत होते
	तसेच त्यांचे उपयोजन करण्यास विद्यार्थी शिकतात.

एस.वाय.बीएस्सी. मराठी जनरल	१) विज्ञान कथा व विनोदी कथा वाड्मयाची वाटचाल विद्यार्थ्यांना
–ललित वाड्मय कथा	समजण्यास मदत होते.
	२) विज्ञान व विनोदी कथेच्या विविध घटकांची ओळख विद्यार्थ्यांना
	होते.
	३) विज्ञान व विनोदी कथेचे वेगळेपण कोणते ते विद्यार्थ्यांना
	समजण्यास मदत होते.
	४) मराठी विज्ञान व विनोदी कथेच्या योगदानाची ओळख
	विद्यार्थ्यांना होते.
	५) विज्ञान क्षेत्रातील विविध विषयांवर मराठीतून लेखन करण्यास
	विद्यार्थी प्रोत्साहित होतात.
	६) विद्यान कोशासाठी नोंद लेखन करण्याचे तंत्र विद्यार्थी आत्मसात
	करतात.
	७) विज्ञान क्षेत्रातील विविध विषयांवरील लोकोपयोगी लेखन
	करण्याचे कौशल्य विद्यार्थी आत्मसात करतात.
	८) विद्यार्थ्यांचा वैज्ञानिक दृष्टीकोन विकसित करण्यास मदत होते.

एफ.वाय.बीकॉम मराठी जनरल-	१) प्रसिद्ध उद्योजकांचा परिचय वाणिज्य विभागातील विद्यार्थ्यांना
वाड्मयीन मराठी	होते.
	२) विद्यार्थ्यांमध्ये वाचन संस्कृती व भाषेविषयी आवड निर्माण करता
	येते.
	३) यशस्वी उद्योजकांच्या चरित्राद्वारे विद्यार्थांमध्ये व्यावसायिक
	दृष्टीकोन निर्माण करण्यास मदत होते.
	४) व्यवसायातील आव्हानांचा परिचय करून देता आला तसेच ती
	पेलण्याची तयारी करून घेता येते.
	५) विद्यार्थ्यांमध्ये उत्तम दर्जाची व्यावसायिकवृत्ती निर्माण करून
	यशस्वी उद्योगाची दिशा दाखविण्यास मदत होते.

Programme Outcomes : M.A. Marathi

no one in Manshi a student should be shite to	
program in Maratni a student should be able to;	
Programme Outcomes ?) मराठी साहित्यातील विविध साहित्य प्रवाहाच्या	
संकल्पना समजावून घेता येतात.	
२) भाषा सिद्धांत आणि व्याकरण व्यवस्था तसेच भाषा	
समाज, संस्कृती यातील परस्परसंबंध समजून घेता	
येतात.	
 मध्ययुगीन कालखंडातील प्रमुख पद्य रचना समजून 	Ŧ
घेता येतात.	
४) लोकसाहित्य-संकल्पना तसेच खानदेशातील	ल
लोकजीवन आणि लोकसाहित्य यांचे परस्परांश	शी
असलेले अनुबंध समजून घेता येतात.	
७) मध्ययुगीन मराठी वाड्मयाची ओळख करून घेता	
येते.	
 ६) समीक्षेची आवड निर्माण करून चिकित्सक दृष्टी 	
विकसित करता येते.	
 ७) आण्णाभाऊ साठे यांच्या वाड्मयीन कर्तृत्वाचे 	
ं आकलन करून घेता येते तसेच वाड्मयौन	
कलाकृतीतून होणारा जीवनमुल्यांचा परिचय	
करून घेता येतो.	
८) स्रीवाद या वाड्मयीन प्रवाहाच्याद्वारे स्रीवादी जाणीव	वा
विकसित करता येतात.	
Programme Specific Outcomes १) मराठी साहित्यातील विविध साहित्य प्रवाहान्या	
भारता साहित्य स	
रापर्यं भी जानि गिनसाया प्रारंग समजायूग प्रोगाम प्रदेव होते	
२) गाउनारा भाषातैज्ञानिकांनी मांदलेले गम्म्य सिद्धांत	
र) भारपाल मामप्रिमा माउरार प्रमुख सिद्धार आणि त्याकरण त्यवस्था तसेन भाषा स्वापन	.1
संस्कृती गातील प्रारंभ समजन घेता गेतात	
२) प्रधायमित काल्यवंदातील प्राप्य रागजा गताय	ने
र्ग नव्यपुराण फारखडातार प्रमुख पंच रपण प्रफार विशेष व स्वरूता साजन घेता गेतात	ч
	
	ा। स्न
्यागि कोक्रयादिना गांने एउयाजेती अयकेके अयकं	isi isi
जानि रायरतात्वर पाय परपराशी जरारार जनुष जयात्वन प्रोगगाम पटन होने	Ч
७) भाषा आणि संस्कृतीन्या संदर्भात मध्ययगीन	
ताडमयाचा परिचय करून करून होता रोतो	
१) ताड्यरीन प्रत्य कर व कर	
मटत होते	

७) लेखकाच्या साहित्यकृतीतून तत्कालीन सामाजिक,सांस्कृतिक घटनांचा प्रवृत्तींचा शोध घेता येतो. ८) स्रीवाद या वाड्मयीन प्रवाहाच्या प्रेरणा व प्रवृत्ती व वेगळेपण शोधप्यास मदत करता येते. Course Outcomes M. A. Marathi Semester-I Course Outcomes M. A. Marathi Semester-I Course Outcomes M. A. Marathi Semester-I After completion of these courses students should be able to: 1 प्रारठी पेपर-१ मध्ययुगीन मराठी वाड्मयाचा इतिहास प्रारंभ ते १८१८ भाषा आणि संस्कृतीच्या संदर्भात मध्ययुगीन वाड्मयाचा अभ्यास विद्यार्थांना सोप्या पद्धतीने करता येतो. २ मध्ययुगीन मराठी वाड्मयाचा इतिहास प्रारंभ ते १८१८ भाषा आणि संस्कृतीच्या संदर्भात मध्ययुगीन वाड्मयाचा अभ्यास विद्यार्थांना सोप्या पद्धतीने करता येतो. २ मध्ययुगीन गढा-पद्य वाड्मया निर्मितीच्या प्रेरणा विद्यार्थांना जथायते येते. २ मध्ययुगीन वविध वाड्मय प्रवाहांचा अभ्यास विद्यार्थांना जथायते. २ माहित्य-समीक्षा १ सिहित्य-समीक्षा २ साहित्य-समीक्षा २ साहित्य-समीक्षा २ साहित्य-समीक्षा २ साहित्य निर्म स्वत होते. २ साहित्य निर्म स्वत होते. २ साहित्य निर्मिती, साहित्य निर्मिती, साहित्य निर्मिती, सात्य देते. २ साहित्य निर्मिती, साहित्य निर्मिती, साहित्य नेते. २ साहित्य निर्मिती अ		
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र) तानवायमा मान ता रागजा पदा मानजा मिलना मानज होण्यास मदत होते. ४) विद्यार्थ्यांमध्ये समीक्षेविषयी क्षमता वाढविण्यास मदत होते. ५) साहित्य निर्मिती, साहित्याचे मूऌ्यमापन, संकऌपना विद्यार्थ्यांना सहजपणे समजून घेता येते. ६) विद्यार्थ्यांना सहजपणे समजून घेता येते. ६) विद्यार्थ्यांमध्ये साहित्य समिक्षेविषयक जाण, दृष्टीकोन निर्माण करण्यास हातभार लावता येतो. १) स्वातंत्र्यपूर्व काळातील वाड्मयीन जाणिवांचा अभ्यास विद्यार्थ्यांना सखोलपणे करता येतो.		राज्यारा गयरा होते. ३) समिक्षेतिषयी योग्य तो समज्ज तिद्यार्थ्यांमध्ये निर्माण
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(२) विद्यार्थां माने से सावाय मा प्राप्ता वार्णवर्ध से स्वत होते. (५) साहित्य निर्मिती, साहित्याचे मूल्यमापन, संकल्पना विद्यार्थ्यांना सहजपणे समजून घेता येते. (६) विद्यार्थ्यांमध्ये साहित्य समिक्षेविषयक जाण, दृष्टीकोन निर्माण करण्यास हातभार लावता येतो. (१) स्वातंत्र्यपूर्व काळातील वाड्मयीन जाणिवांचा अभ्यास विद्यार्थ्यांना सखोलपणे करता येतो.		४) विद्यार्थ्यां मध्ये समीक्षेतिषयी क्षमता वादविण्यास मदत
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		विद्यार्थ्यांना संखोलपणे करता येतो.
ן צו קיקו/יזובטיטוצ אומיו טוטוטוטוט אטטט די		२) कवी/नाटककार यांच्या कालाकतीवरील पडलेला
परिस्थितीजन्य प्रभाव विद्यार्थ्यांना जाणन घेता येतो		परिस्थितीजन्य प्रभाव विद्यार्थ्यांना जाणन घेता येतो.
3) साहित्यिकांच्या साहित्य कतीतन सामाजिक, वाडमयीन		3) साहित्यिकांच्या साहित्य कतीतन सामाजिक वाडमयीन
प्रेरणांचा शोध विद्यार्थ्यांना घेण्यास मदत मदत होते		प्रेरणांचा शोध विद्यार्थ्यांना घेण्यास मटत मटत होते
אי היא איין איין איין איין איין איין איי		४) लेखकाचे वाडमयीन योगदान विद्यार्थ्यांना अभ्यासता येते

	५) साहित्यिकाचे वाड्मयीन् योगदान यांचा परिचय
	विद्यार्थ्यांना करून घेता येतो.
	६) साहित्यकृतीतून होणारा जीवनमूल्यांचा परिचय
	विद्यार्थ्यांना अभ्यासता येतो.
मराठी पेपर-४ स्रीवादी साहित्य	१) मराठी साहित्यातील नव प्रवाहांचा परिचय विद्यार्थ्यांना
	करून घेता येतो.
	२) सीवाद् या वाड्मयीन प्रवाहाच्या प्रेरणा व प्रवृत्ती यांचा
	अभ्यास विद्यार्थ्यांना सोप्या पद्धतीने करता येतो.
	३) सीवादी वाड्मयीन प्रवाहाचे वेगळेपण विद्यार्थ्यांच्या
	लक्षात येण्यास मदत होते.
	४) मराठीतील सीवादी साहित्य कलाकृतींचा अभ्यास
	विद्यार्थ्यांना करता आला व सीवादी जाणिवांचे स्वरूप
	यांचाही परिचय विद्यार्थ्यांना होण्यास मदत होते .
	Semester-II
मराठा पपर-१ मध्ययुगान मराठा	। १) मध्ययुगान मराठा वाड्मयाचा आळख विद्यार्थ्याना करून
वाड्मयाचा इातहास १६५० त १८१८	। धण्यास मदत झाला .
	२) भाषा आणि संस्कृताच्या संदर्भात मध्ययुगान वार्ड्मयाचा
	अभ्यास विद्यार्थ्यांनी साप्या पद्धतीन करती यती. २. जन्मजनीन सम्य सम्य जन्मजन विर्दि विजय वेजन्म विजयवर्गन
	३) मध्ययुगान गद्य-पद्य वाड्मय ।नामताच्या प्ररणा ।वद्याध्याना
	8) मध्ययुगान काळाताल विविध राजवटाचा मराठा
	विड्मयवराल प्रभाव आणि परिणामाची अभ्यास विद्यार्थ्याना
	(५) मध्ययुगान विविध वोड्मय प्रवाहाचा अभ्यास विद्यार्थ्याना
	करता थता. के सम्पत्निम् अफीम् संसरोकन समंदे सन्तरन निम्मकर्मीन नगमन
मराठा पपर-२ साहत्य-संशाधन	१) साहित्य आणि संशोधन याचे महत्व विद्यार्थ्याना जॉणून रोज रोजे
	िधता थत. २२ चिनाव्यांनी नाजायीन पुरुषणपुराजी नही जिन्हरित
	र) विषयित वार्यमान मूल्यमापनाचा ६९१ विकसित रोणगण परन रोने
	ן פויטות אנו פונו. א גיאוניבראמון זוזני בו גדוים הכוויזיונים בדיוייי
	्र) त्तरतयापत्रपा पाण्य ता त्तमण विधाय्यामव्य तिमाण होाग्राज्य चटन होने
	ן פוטיות אינת פות. אין ארד אינת אינת אינת אינת אינת אינת אינת אינת
	॰) । ययाप्तान प्त रासाय गापपपा क्षेमरा। पाढापण्यात्त मेद्र(। होते
	। १९९०. ७) साहिता निर्मिती साहित्याचे प्रलयाणान संकलपना
	ן אַ אוופיש בוויזינוו, אוופישוע קַנְיָשִׁשוּעיו, לעינישיו הפוויזיוה אבגידוווו אווישייד להו זהוה
	िर्धा विद्यार्थ्या प्राप्त के संबद्ध से को भन्न के सिंह क
	निर्माण करण्यास हातभार लातता येतो
मराती प्रेपर-३ साहित्य कतीना अभास	१) स्वातंत्र्यपूर्व कालातील वाइमरीन जाणितांचा अभाष
गराज ननर-४ रागिएल पृर्णामा जन्मति	ितिदार्श्यांना संखेलपणे करता रोतो
	२) कती/नाटककार यांच्या कालाकतीत्म्यील एडलेला
	परिस्थितीजन्य प्रभाव तिवार्थ्यां न जाणन घेता रोतो
	ן אונוגאנוושיא אחוע ועטויאויוו שוערו ענוו אנוו.

	३) साहित्यिकांच्या साहित्य कृतीतून सामाजिक,वाड्मयीन
	प्रेरणांचा शोध विद्यार्थ्यांना घेण्यास मदत होते.
	४) लेखकाचे वाड्मयीन योगदान विद्यार्थ्यांना अभ्यासता येते.
	५) साहित्यिकाचे वाडमयीन योगदान यांचा परिचय
	विद्यार्थ्यांना करून घेता येतो.
	६) साहित्यकृतीतन् होणारा जीवनमलयांचा परिचय
	विद्यार्थ्यांना अभ्यासता रोतो
गजानी गेगज ४ सीतानी साहित्य	१५ प्रायती आदिव्यातील वत्र प्रताहांचा प्राप्तेच्या विद्यार्थ्यांचा
नराठा पंपर-० स्नापादा ताहित्प	र) मराठा ताहित्याताल गय प्रयोहाया यारेयय विद्याच्यांगा कहन्म प्रेय ग्रेय
	२) स्रोवोद यो वेड्मियोन प्रविहाच्या प्ररेणी व प्रवृत्ती यांची
	अभ्यास विद्यार्थ्यानां साप्यां पद्धतान करता यता.
	३) सीवादी वाड्मयीन प्रुवाहाचे वेगळेपण विद्यार्थ्याच्या
	लक्षात येण्यास मदत होते.
	४) मराठीतील स्रीवादी साहित्य कलाकृतींचा अभ्यास
	विद्यार्थ्यांना करता आला व स्रीवादी जाणिवांचे स्वरूप
	यांचाही परिचय विद्यार्थ्यांना होतो.
	Semester-III
मराठी पेपर-५ स्वातंत्र्योत्तर	१) साहित्य प्रवाहाची संकऌपना विद्यार्थ्यांना जाणून घेता
कालखंडातील साहित्य प्रवाह	येतात.
	२) साहित्य प्रवाहांच्या उदयामागील सामाजिक,सांस्कृतिक व
	वाड्मयीन पार्श्वभूमी विद्यार्थ्यांना समजून घेता येते.
	३) विद्यार्थ्यांना स्वातंत्र्योत्तर कालखंडातील नवसाहित्य.
	ग्रामीण महानगरीय या साहित्य प्रवाहांचे स्वरूप जाणन
	घेऊन त्यांच्या वैशिष्टयांचा शोध घेता येतो
	४) स्वातंत्र्योत्तर कालखंडातील नवसाहित्य ग्रामीण
	महानगरीय या साहित्य पताहांची विविध वाडमय पळारातील
	वाटचाल विद्यार्थ्यांना जाणन घेटा येटे
	७) स्तातंत्र्योच्च कालखंदातील नत्मादित्य गामीण
	יא איזאיז איז איז איז איז איז איז איז אי
	המויזנוש אי מופע איופישו אוונויוושט מוופע המוידו מיזונוש המויזנו המויזנים המויזנים ערבים ביום
माराजी गेगा द अगलानिचान	איז
मराठा पपर-६ भाषाविज्ञान	र) पार्त्यात्य माषावंशानकानां माडलल्यां प्रमुख सिद्धतियि। मण्डिम विवर्णगर्मम कोने
	(४) स्वनाम ।वचाराच स्वरूप जाणून धऊन मराठाच्या स्वनाम
	व्यवस्थचा माडणा याविषयाचा माहिता विद्यार्थ्याना जाणून
	घता यत.
	· · · · · · · · · · · · · · · · · · ·
	३) रुपिम विचाराच स्वरूप विद्यार्थ्यांना जाणून घता युत.
	४) रापम विचाराचे स्वरूप विद्यार्थ्यांना जाणून घेता येते. ४) वाक्यविचाराचे स्वरूप विद्यार्थ्यांना जाणून घेता येते.
	३) रुपिम विचाराचे स्वरूप विद्यार्थ्यांना जाणून घता यत. ४) वाक्यविचाराचे स्वरूप विद्यार्थ्यांना जाणून घेता येते. ५) अर्थविचाराचे स्वरूप विद्यार्थ्यांना जाणून घेता येते .
मराठी पेपर-५ स्वातंत्र्योत्तर	३) रुपिम विचाराचे स्वरूप विद्यार्थ्यांना जाणून घता यत. ४) वाक्यविचाराचे स्वरूप विद्यार्थ्यांना जाणून घेता येते. ५) अर्थविचाराचे स्वरूप विद्यार्थ्यांना जाणून घेता येते . १) मध्ययुगीन कालखंडातील पद्य वाड्मयातील वैविध्यपूर्ण

 २) मध्यपुगीन कारुखंडातीरु प्रमुख पद्य रचना प्रकारोंचे स्वरूप विद्यार्थांना जाणून घेता येते. ३) मध्यपुगीन कारुखंडातीरु अभंग या रचना प्रकारांचे स्वरूपविशेष विद्यार्थांना जाणून घेता येते. ४) प्रातिनिधिक अभंग रचनांच्या अनुषंगाने अभंग या रचना प्रकारांचे स्वरुपविशेष विद्यार्थांना जाणून घेता येते. ४) प्रातिनिधिक अभंग रचनांच्या अनुषंगाने अभंग या रचना प्रकारांचे स्वरुपविशेष विद्यार्थांना जाणून घेता येते. ६) प्रातिनिधिक भारुड रचनांच्या अनुषंगाने भारुड या रचना प्रकारांचे अभ्यास (अभंग आणि भारुड) मध्यपुगीन कारुखंडातीरु प्राय रचना प्रकारांचे स्वरुपविशेष विद्यार्थांना जाणून घेता येते. ६) प्रातिनिधिक भारुड रचनांच्या अनुषंगाने भारुड या रचना प्रकारांचे अभ्यास (अभंग आणि भारुड) मध्यपुगीन कारुखंडातीरु प्रयु पद्य रचना प्रकारांचे रचना प्रकारांचे अध्यास करण्यास विद्यार्थ्यांना मदत होते. १) मध्यपुगीन कारुखंडातीरु प्रमुख पद्य रचना प्रकारांचे स्वरुपविशेष विद्यार्थ्यांना काणून घेता येते. १) मध्यपुगीन कारुखंडातीरु प्रमुख पद्य रचना प्रकारांचे स्वरुपविशेष विद्यार्थ्यांना काणून घेता येते. १) मध्यपुगीन कारुखंडातीरु भारुड पा रचना प्रकारांचे स्वरुपविशेष विद्यार्थ्यांना काणून घेता येते. १) प्रातिनिधिक अभंग रचनांच्या अनुषंगाने अभंग या रचना प्रकारांचे स्वरुपविशेष विद्यार्थ्यांना काणून घेता येते. १) प्रातिनिधिक अभार रचनांच्या अनुषंगाने अभ्य या रचना प्रकारांचे स्वरुपविशेष विद्यार्थ्यांना काणून घेता येते. भारितिथिक अभार रचनांच्या अनुषंगाने अभ्य या रचना प्रकारांचे स्वरुपविशेष विद्यार्थ्यांना काणून घेता येते. १) लोकसाहित्य भाषिक रुपणास मदत होते. १) लोकसाहित्य आणि अन्य ज्ञानवााखा यातील अनुबंध जाणून विदे थते. १) लोकसाहित्याच्या अभ्यास करण्यास मदत होते. १) लोकसाहित्याचा अभ्यास वेया परिय परिय यिदार्थ्यांना साजून घेता येते. २) लोकसाहित्याच्या अभ्यात्ता येते. २) लोकसाहित्याच्या अभ्यात्ता येत. २) लोकसाहित्याचा अभ्यात्ता येते. २) लेकसाहित्याचा अभ्यात्ता येते. २) लेकस		
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भ) प्रातिनिधिक अभंग रचनांच्या अनुषंगाने अभंग या रचना प्रकाराचा अभ्यास विद्यार्थ्यांना करण्यास मदत होते. ५) मध्ययुगीन कारुखंडातील भारुड या पदा रचना प्रकारांचे स्वरुपविशेष विद्यार्थ्यांना जाणून घेता येते. ६) प्रातिनिधिक भारुड रचनांच्या अनुषंगाने भारुड या रचना प्रकाराचा अभ्यास करण्यास विद्यार्थ्यांना कारले रचना प्रकारांचे स्वरुपविशेष विद्यार्थ्यांना कारले रचना या अनुषंगाने भारुड या रचना प्रकारांचा अभ्यास विद्यार्थ्यांना करता येते. भाराठी पेपर-७ मध्ययुगीन पद्य रचनांच्या अभ्यास (अभंग आणि भारुड) १) मध्ययुगीन कारुखंडातील प्रमुख पद्य रचना प्रकारांचे स्वरुपविशेष विद्यार्थ्यांना जाणून घेता येते. २) मध्ययुगीन कारुखंडातील अभग या रचना प्रकारांचे स्वरुपविशेष विद्यार्थ्यांना जाणून घेता येते. १) मध्ययुगीन कारुखंडातील भारुड या प्रयत्ता होते. ४) प्रातिनिधिक अभग रचनांच्या अनुषंगाने अभंग या रचना प्रकाराचा अभ्यास विद्यार्थ्यांना कारण्या सदत होते. १) मध्ययुगीन कारुखंडातील भारुड या पद रचना प्रकारांचे स्वरुपविशेष विद्यार्थ्यांना जाणून घेता येते. ४) प्रातिनिधिक अभग रचनांच्या अनुषंगाने अभंग या रचना प्रकाराचा अभ्यास विद्यार्थ्यांना करण्या सदत होते. १) प्रातिनिधिक अभग रचनांच्या अनुषंगाने अभंग या रचना प्रकाराचा अभ्यास विद्यार्थ्यांना करण्या सदत होते. ४) प्रातिनिधिक भारुड रचनांच्या अनुषंगाने भारुड या रचना प्रकाराचा अभ्यास विद्यार्थ्यांना कारण्य घरव तो ते. १) शोतिनिधिक भारुड रचनांच्या अनुषंगाने सारजुन येता येते. १) रोतेसिट-८ लोकसाहित्य पाएन विद्यार्थ्यांना समजुन घेता येते. १) लोकसाहित्याच्या विद्यार्थ्यांना सारजुत येता येते. १) रोतेसिय ग्रेय रव विद्यार्थ्यांना होते. १) लोकसाहित्याच्या विद्यार्थ्या ना सारजुत्ता जाणून घेता येते. १) रोते स्वार्रे रातर कारखंडातील दरिल, आदिवासी,		स्वरुपविशेष विद्यार्थ्यांना जाणून घेता येते.
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५) मध्ययुगीन कालखंडातील भारुड या पद्य रचना प्रकारांचे स्वरुपविशेष विद्यार्थ्यांना जाणून घेता येते. ६) प्रातिनिधिक भारुड रचनांच्या अनुर्थगाने भारुड या रचना प्रकाराचा अभ्यास करण्यास विद्यार्थ्यांना मदत होते. मराठी पेपर-७ मध्ययुगीन पद्य रचनांच्या अभ्यास (अभंग आणि भारुड) १) मध्ययुगीन कालखंडातील पद्य वाड्मयातील वैविध्यपूर्ण रचना प्रकारांचा अभ्यास विद्यार्थ्यांना करता येतो. २) मध्ययुगीन कालखंडातील प्रमुख वाड्मयातील वैविध्यपूर्ण रचना प्रकारांचा अभ्यास विद्यार्थ्यांना करत्या येतो. २) मध्ययुगीन कालखंडातील प्रमुख पद्य रचना प्रकारांचे स्वरुपविशेष विद्यार्थ्यांना जाणून घेता येते. २) मध्ययुगीन कालखंडातील अभग या रचना प्रकारांचे स्वरुपविशेष विद्यार्थ्यांना करण्यास मदत होते . २) भध्ययुगीन कालखंडातील भारुड या पद्य रचना प्रकारांचे स्वरुपविशेष विद्यार्थ्यांना करण्यास मदत होते . ४) प्रतिनिधिक अभंग रचनांच्या अनुर्थगाने अभि या रचना प्रकाराचा अभ्यास विद्यार्थ्यांना करण्यास मदत होते . २) भध्ययुगीन कालखंडातील भारुड या पद्य रचना प्रकारांचे स्वरुपविशेष विद्यार्थ्यांना जाणून घेता येते. ४) प्रतिनिधिक अभार रचनांच्या अनुर्थगाने भारुड या रचना प्रकाराचा अभ्यास विद्यार्थ्यांना जाणून घेता येते. २) लोकसाहित्य खंकल्पविदोष विद्यार्थ्यांना भारु त्य येते. ४) एतेनिधिक भारुड रचनांच्या अनुर्थगाने भारुड या रचना प्रकारावा अभ्यास वद्यार्थांना समजून येता येते. २) लोकसाहित्याच्या अभ्यास पद्धतीचे स्वरूप विद्यार्थ्यांचा लक्षात येते. ४) लोकसाहित्याच्या अभ्यासाची भारतीय परंपरा विद्यार्थ्यांचा लक्षात येते. ३) लोकसाहित्याच्या अभ्यासाची भारतीय परंपरा विद्यार्थ्यांचा लक्षात येते. ४) मराती एरिय दाव्यार्थांना होतो. १) सोलसाहित्याच्या प्रित्य विद्यार्थ्यांना होतो. ४) एतेकसाहित्याच्या प्		प्रकाराचा अभ्यास विद्यार्थ्यांना करण्यास मदत होते.
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६) प्रातिनिधिक भारुड रचनोंच्या अनुषंगाने भारुड या रचना प्रकाराचा अभ्यास करण्यास विद्यार्थ्यांना मदत होते. मराठी पेपर-७ मध्ययुगीन पद्य रचनां अभ्यास (अभंग आणि भारुड) १) मध्ययुगीन कारुखंडातील पद्य वाड्मयातील वैविध्यपूर्ण रचना प्रकारांचा अभ्यास विद्यार्थ्यांना करता येतो. २) मध्ययुगीन कारुखंडातील प्रमुख पद्य रचना प्रकारांचे स्वरूप विद्यार्थ्यांना जाणून घेता येते. ३) मध्ययुगीन कारुखंडातील अभंग या रचना प्रकारांचे स्वरुपविशेष विद्यार्थ्यांना जाणून घेता येते. ३) प्रारिनिधिक अभंग रचनांच्या अनुषंगाने अभंग या रचना प्रकाराचा अभ्यास विद्यार्थ्यांना करण्यास मदत होते. ४) प्रातिनिधिक अभंग रचनांच्या अनुषंगाने अभंग या रचना प्रकाराचा अभ्यास विद्यार्थ्यांना करण्यास मदत होते. ४) प्रारिनिधिक अभंग रचनांच्या अनुषंगाने भारुड या रचना प्रकाराचा अभ्यास विद्यार्थ्यांना जाणून घेता येते. १) प्रारितिधिक भारुड रचनांच्या अनुषंगाने भारुड या रचना प्रकाराचा अभ्यास करण्यास विद्यार्थ्यांना मत्त होते. मराठी पेपर-८ लोकसाहित्य प्रता येते. १) लोकसाहित्य अणि अन्य ज्ञानशाखा यातील अनुबंध जाणून विद्यार्थ्यांना समजून घेता येते. २) लोकसाहित्य प्रता येते. १) लोकसाहित्याच्या अभ्यास पद्धतीचे स्वरूप विद्यार्थ्यांचा लक्षात येते. २) लोकसाहित्याच्या विधा थ्यांना समजून घेता येते. १) लोकसाहित्याच्या अभ्यासातील अडचणी विद्यार्थ्यांना जाणून विद्यार्थ्यांचा लक्षात येते. ४) लोकसाहित्याच्या अभ्यासातील अडचणी विद्यार्थ्यांना जाणून घेता येते. १) लोकसाहित्याच्या अभ्यासातील अडचणी विद्यार्थांना जाणून घेता येते. ४) लोकसाहित्याच्या परियय विद्यार्थांना होतो. १) लोकसाहित्याच्या अभ्यासातील अडचणी विद्यार्थांना जाण्या वेयिष्टयांचा परिचय विद्यार्थांना होतो. ४) राठी ठोकसाहित्याचा परिचय विद्या		स्वरुपविशेष विद्यार्थ्यांना जाणून घेता येते.
प्रकाराचा अभ्यास करण्यास विद्यार्थ्यांना मदत होते. मराठी पेपर-७ मध्ययुगीन पद्य रचनांचा अभ्यास (अभंग आणि भारुड) २१ मध्ययुगीन कालखंडातील पद्य वाड्मयातील वैविध्यपूर्ण रचना प्रकारांचा अभ्यास विद्यार्थ्यांना करता येतो. २) मध्ययुगीन कालखंडातील प्रमुख पद्य रचना प्रकारांचे स्वरूपविशेष विद्यार्थ्यांना जाणून घेता येते. ३) प्राविनिधिक अभंग रचनांच्या अनुषंगाने अभंग या रचना प्रकाराचा अभ्यास विद्यार्थ्यांना करण्यास मदत होते . ५) मध्ययुगीन कालखंडातील भारुड या पद्य रचना प्रकारांचे स्वरूपविशेष विद्यार्थ्यांना करण्यास मदत होते . ५) मध्ययुगीन कालखंडातील भारुड या पद्य रचना प्रकारांचे स्वरूपविशेष विद्यार्थ्यांना जाणून घेता येते. ६) प्रातिनिधिक भारुड रचनांच्या अनुषंगाने भारुड या रचना प्रकाराचा अभ्यास विद्यार्थ्यांना जाणून घेता येते. ६) प्रातिनिधिक भारुड रचनांच्या अनुषंगाने भारुड या रचना प्रकाराचा अभ्यास करण्पास विद्यार्थ्यांना मार्य्यत्ता ने सरूप विद्यार्थ्यांना आग्या करण्यास विद्यार्थ्यांना मान्यत होते. १) लोकसाहित्य आणि अन्य ज्ञानशाखा यातील अनुबंध जाणून विद्यार्थ्यांना समजून घेता येते. १) लोकसाहित्याच्या विधि अभ्यास पद्धतीचे स्वरूप विद्यार्थ्यांचा लक्षात येते. १) लोकसाहित्याच्या अभ्यासाची भारतीय परंपरा विद्यार्थ्यांचा लक्षात येते. १) लोकसाहित्याच्या अभ्यासाची भारतीय परंपरा विद्यार्थ्यांचा लक्षात येते. १) लोकसाहित्याच्या अभ्यासातील अडचणी विद्यार्थ्यांना जाणून घेता येते. ६) मराठी लेकसाहित्याच्या अभ्यासातील अडचणी विद्यार्थ्यांना जाणून घेता येते. ६) सराठी लोकसाहित्याचा परिचय विद्यार्थ्यांना होतो. <u>६</u> भराठी लोकसाहित्याचा परिचय विद्यार्थ्यांना होतो. इक्लाङसट-IV भराठी पेपर-५ स्वातंत्र्योत्तर कालखंडातील साहित्यप्रवाह		६) प्रातिनिधिक भारुड रचनॉंच्या अनुषंगाने भारुड या रचना
मराठी पेपर-७ मध्ययुगीन पद्य रचनांचा अभ्यास (अभंग आणि भारुड) १) मध्ययुगीन कालखंडातील पद्य वाड्मयातील वैविध्यपूर्ण रचना प्रकारांचा अभ्यास विद्यार्थ्यांना करता येते. २) मध्ययुगीन कालखंडातील प्रमुख पद्य रचना प्रकारांचे स्वरूप विद्यार्थ्यांना जाणून घेता येते. २) मध्ययुगीन कालखंडातील अभंग या रचना प्रकारांचे स्वरूपविद्येष विद्यार्थ्यांना जाणून घेता येते. ३) मध्ययुगीन कालखंडातील अभंग या रचना प्रकारांचे स्वरुपविद्येष विद्यार्थ्यांना काणून घेता येते. १) प्रातिनिधिक अभंग रचनांच्या अनुषंगाने अभंग या रचना प्रकाराचा अभ्यास विद्यार्थ्यांना करण्यास मदत होते. ५) प्रायरगीन कालखंडातील भारुड या पद्य रचना प्रकारांचे स्वरुपविद्येष विद्यार्थ्यांना काणून घेता येते. १) प्रातिनिधिक भारुड रचनांच्या अनुषंगाने भारुड या रचना प्रकाराचा अभ्यास करण्यास विद्यार्थ्यांना मदत होते. मराठी पेपर-८ लोकसाहित्य १) लोकसाहित्य आणि अन्य ज्ञानशाखा यातील अनुबंध जाणून विद्यार्थ्यांना समजून घेता येते. २) लोकसाहित्य १) लोकसाहित्य आणि अन्य ज्ञानशाखा यातील अनुबंध जाणून विद्यार्थ्यांचा लक्षात येते. २) लोकसाहित्य १) लोकसाहित्याच्या विदिध अभ्यास पद्धतीचे स्वरूप विद्यार्थ्यांच्या लक्षात येते. २) लोकसाहित्याच्या अभ्यासाची भारतीय परंपरा विद्यार्थ्यांचा लक्षात येते. १) लोकसाहित्याच्या अभ्यासातील अडचणी विद्यार्थ्यांना जाणून घेता येते. ६) मराठी पेपर-५ स्वातंत्र्योत्तर कालखंडातील साहित्यप्रवाह १) स्वातंत्र्यात्तर कालखंडातील दलित, आदिवासी, भटके विमुक्त व मुस्लीम साहित्य प्रवाहांचे स्वरूप जाणून घेऊन त्यांच्या वैशिष्टयांचा शोध विद्यार्थ्यांना घेण्यास मदत होते. १) स्वातंत्र्योत्तर कालखंडातील दलित, आदिवासी, भटके १ स्वातंत्र्योत्तर कालखंडातील दलित, आदिवासी, भटके		्र प्रकाराचा अभ्यास करण्यास विद्यार्थ्यांना मदत होते.
 अभ्यास (अभंग आणि भारुड) रंचना प्रकारांचा अभ्यास विद्यार्थ्यांना करता येते. २) मध्ययुगीन कालखंडातील प्रमुख पद्य रचना प्रकारांचे स्वरूप विद्यार्थ्यांना जाणून घेता येते. ३) मध्ययुगीन कालखंडातील अभंग या रचना प्रकाराचे स्वरुपविशेष विद्यार्थ्यांना जाणून घेता येते. ४) प्रातिनिधिक अभंग रचनांच्या अनुषंगाने अभंग या रचना प्रकाराचा अभ्यास विद्यार्थ्यांना करण्यास मदत होते. ५) मध्ययुगीन कालखंडातील भारुड या पद रचना प्रकारांचे स्वरुपविशेष विद्यार्थ्यांना काणून घेता येते. ४) प्रातिनिधिक भारुड रचनांच्या अनुषंगाने भारुड या रचना प्रकाराचा अभ्यास विद्यार्थ्यांना करण्यास मदत होते. ५) प्रातिनिधिक भारुड रचनांच्या अनुषंगाने भारुड या रचना प्रकाराचा अभ्यास करण्यास विद्यार्थ्यांना मदत होते. १) लोकसाहित्य १) लोकसाहित्य आणि अन्य ज्ञानशाखा यातील अनुबंध जाणून विद्यार्थ्यांना समजून घेता येते. २) लोकसाहित्य व्यायिंग समजून घेता येते. २) लोकसाहित्याच्या विद्यार्थ्यांना समजून घेता येते. १) लोकसाहित्याच्या विद्यार्थ्यांना समजून घेता येते. २) लोकसाहित्याच्या विद्यार्थ्यांना समजून घेता येते. २) लोकसाहित्याच्या विदिय आणि अन्य ज्ञानशाखा यातील अनुबंध जाणून विद्यार्थ्यांना समजून घेता येते. २) लोकसाहित्याच्या अभ्यासा पद्धतीचे स्वरूप विद्यार्थ्यांच्या लक्षात येते. ४) लोकसाहित्याच्या अभ्यासाची भारतीय परंपरा विद्यार्थ्यांच्या कक्षात येते. ४) लोकसाहित्याच्या अभ्यासातील अडचणी विद्यार्थ्यांना जाणून घेता येते. ६) मराठी पेपर-५ स्वातंत्र्योत्तर कालखंडातील साहित्यप्रवाह र १) स्वातंत्र्योत्तर कालखंडातील दलित, आदिवासी, भटके विमुक्त व मुस्लीम साहित्य प्रवाहांचे स्वरूप जाणून घेऊन त्यांच्या वैशिष्टयांचा शोध विद्यार्थ्यांना घेण्यास मदत होते. २) स्वातंत्र्योत्तर कालखंडातील दलित, आदिवासी, भटके 	मराठी पेपर-७ मध्ययुगीन पद्य रचनांचा	१) मध्ययुगीन कालखंडातील पद्य वाड्मयातील वैविध्यपूर्ण
 २) मध्ययुगीन कालखंडातील प्रमुख पद्य रचना प्रकारांचे स्वरूप विद्यार्थ्यांना जाणून घेता येते. ३) मध्ययुगीन कालखंडातील अभंग या रचना प्रकाराचे स्वरूपविशेष विद्यार्थ्यांना जाणून घेता येते. ३) प्रांतीनिधिक अभंग रचनांच्या अनुषंगाने अभंग या रचना प्रकाराचा अभ्यास विद्यार्थ्यांना करण्यास मदत होते. ५) मध्ययुगीन कालखंडातील भारुड या पद्य रचना प्रकारांचे स्वरुपविशेष विद्यार्थ्यांना करण्यास मदत होते. ५) मध्ययुगीन कालखंडातील भारुड या पद्य रचना प्रकारांचे स्वरुपविशेष विद्यार्थ्यांना करण्यास मदत होते. ५) मध्ययुगीन कालखंडातील भारुड या पद्य रचना प्रकारांचे स्वरुपविशेष विद्यार्थ्यांना करण्यास मदत होते. ६) प्रांतिनिधिक भारुड रचनांच्या अनुषंगाने भारुड या रचना प्रकारांचे स्वरुपविशेष विद्यार्थ्यांना जाणून घेता येते. ६) प्रांतिनिधिक भारुड रचनांच्या अनुषंगाने भारुड या रचना प्रकारांचे स्वरुपविशेष विद्यार्थ्यांना करण्यास विद्यार्थ्यांना ममलून घेता येते. १) लोकसाहित्य आणि अन्य ज्ञानशाखा यातील अनुबंध जाणून विद्यार्थ्यांना समजून घेता येते. २) लोकसाहित्याच्या विविध अभ्यास पद्धतीचे स्वरूप विद्यार्थ्यांना स्वर्जन घेत. ४) लोकसाहित्याच्या अध्यासाची भारतीय परंपरा विद्यार्थ्यांना लक्षात येते. ६) लोकसाहित्याच्या अभ्यासाची भारतीय परंपरा विद्यार्थ्यांना जाणून घेता येते. ६) लोकसाहित्याच्या अभ्यासातील अडचणी विद्यार्थ्यांना जाणून घेता येते. ६) लोकसाहित्याच्या अभ्यासातील अडचणी विद्यार्थ्यांना जाणून घेता येते. ६) लोकसाहित्याच्या अभ्यासातील अडचणी विद्यार्थ्यांना जाणून घेता येते. ६) मराठी णेपर-५ स्वातंत्र्रोत्तर १ लोकसाहित्याच्या अभ्यासातील अडचणी विद्यार्थांना जाणून घेता येते. ६) मराठी लोक्य. ६ लातंत्र्योत्तर कालखंडातील दलित, आदिवासी, भटके विमुक्त व मुस्लीम साहित्य व्या विशिर्यांना घोण्यांना होते. 	अभ्यास (अभंग आणि भारुड)	रँचना प्रकारांचा अभ्यास विद्यार्थ्यांना करता येतो.
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	३) स्वातंत्र्योत्तर कालखंडातील दलित, आदिवासी, भटके विमुक्त व मुस्लीम साहित्य प्रवाहांच्या प्रातिनिधिक साहित्यकृतींचा अभ्यास विद्यार्थ्यांना सोप्या पद्धतीने करण्यास मदत होते.
मराठी पेपर-६ सामाज भाषाविज्ञान	 १) समाजभाषा विज्ञानाचे स्वरूप आणि या अभ्यास क्षेत्राची व्याप्ती विद्यार्थ्यांना समजण्यास मदत होते. २) भाषा, समाज, संस्कृती यातील परस्परसंबंध जाणून घेऊन त्यानुसार भाषेतील स्तरभेदांचे स्वरूप विद्यार्थ्यांच्या लक्षात येण्यास मदत होते. ३) समाजभाषाविज्ञानातील पायाभूत संकल्पना विद्यार्थ्यांना समजून घेता येते. ४) बोलींच्या अभ्यासाचे भाषावैज्ञानिक महत्व विद्यार्थ्यांना लक्षात येते. ५) खान्देशातील निवडक बोलींची समाजभाषा विज्ञानाच्या अंगाने जाणवणारी वैशिष्टये विद्यार्थ्यांच्या लक्षात येते.
मराठी पेपर-७ मध्ययुगीन पद्य रचना प्रकारांचा अभ्यास (आख्यान काव्य आणि लावणी)	 १) मध्ययुगीन कालखंडातील पद्य वाड्मयातील वैविध्यपूर्ण रचना प्रकारांचा अभ्यास करण्यास विद्यार्थ्यांना मदत होते. २) मध्ययुगीन कालखंडातील प्रमुख पद्य रचना प्रकारांचे स्वरूप विद्यार्थ्यांना जाणून घेता येते. ३) मध्ययुगीन कालखंडातील आख्यान काव्य या रचना प्रकाराचे स्वरुपविशेष विद्यार्थ्यांना जाणून घेता येते. ४) प्रातिनिधिक आख्यान काव्य या रचनांच्या अनुषंगाने अभंग या रचना प्रकाराचा अभ्यास करण्यास विद्यार्थ्यांना मदत होते. ५) मध्ययुगीन कालखंडातील लावणी या पद्य रचना प्रकारांचे स्वरुपविशेष विद्यार्थ्यांना जाणून घेता आले. ६) प्रातिनिधिक भारुड रचनांच्या अनुषंगाने लावणी या रचना प्रकाराचा अभ्यास करण्यास विद्यार्थ्यांना मदत होते.
मराठी पेपर-८ खानदेशातील लोकसाहित्य	 १) खानदेशातील लोकजीवन आणि लोकसाहित्य यांचे परस्परांशी असलेले अनुबंध विद्यार्थ्यांना जाणून घेता होते. २) खानदेशातील अहिराणी, लेवा, गुजर, तावडी या बोलीतील लोकगीते, लोककथा,म्हणी, वाक्प्रचार, उखाणे यांचा परिचय होतो. ३) खानदेशातील लोकनाट्याचे (तमाशा,गोंधळ,वही गायन) यांचे स्वरूप विद्यार्थ्यांना जाणून घेता येते. ४) खानदेशातील आदिवासींच्या लोकसाहित्याचे (लोकगीते,लोकनाट्य,लोककथा) यांचे स्वरूप विद्यार्थ्यांना समजून घेण्यास मदत होते.

Department of Hindi

Under Graduate (UG)

After successful completion of three year degree program in (**<u>B.A. HINDI</u>**) a student should be able to;

Sr. No.	Programme Outcomes (POs)	Programmme Specific Outcomes (PSOs)
1	छात्रों में मानवीय मुलयों के प्रति आस्था निर्माण	छात्रों को रोजगार उपलब्ध कराना तथा हिंदी
	करना।	साहित्य के प्रति रुचि बढाना।
2	छात्रों में विभिन्न कहानियों के माध्यम से छात्रों की	छात्रों को हिंदी में कार्य करने की विचार क्षमता,
	भाषिक क्षमता को विकसित करना तथा सामाजिक	कल्पनाशीलता विकसित कराना।
	संवेदना को जागृत करना।	
3	छात्रों को रचनात्मक लेखन के सैध्दांतिकी से	हिंदी साहित्य की विविध विधाओं से छात्रों को
	अवगत कराना।	अवगत कराना।
4	कथेत्तर गद्य विधा की कालजयी रचनाओं से छात्रों	छात्रों को मानक हिंदी भाषा से परिचित कराना।
	को परिचित कराना।	
5	हिंदी भाषा के भाषिक स्वरूप से छात्रों को परिचित	छात्रों को प्रतियोगिता परीक्षा के लिए तैयार
	कराना।	कराना।
6	काव्यशास्त्र का सामान्य परिचय कराना।	छात्रों को हिंदी भाषा की उपयोगिता तथा महत्त्व
		से परिचित कराना।
7	निर्धारित उपन्यास के माध्यम से छात्रों को मानवीय	
	जीवन में समय का महत्व, व्यक्ति की विश्वव्यापी	
	स्वाधीनता, वृध्दों की समस्या, मूल्य संवर्धन संयुक्त	
	परिवार आदि से अवगत कराना।	
8	मीडिया लेखन कौशल से छात्रों को अवगत	
	कराना।	
9	हिंदी गीत-नवगीतों के माध्यम से लेखन की सर्जन	
	प्रक्रियां को दर्शाना।	
10	एकांकीओं के माध्यम से रंगमंचीय प्रभाव को	
	विशद कराना।	
11	अनुवाद विज्ञान की प्रविधि से छात्रों को अवगत	
	कराना।	
12	हिंदी नाटक और रंगमंच के परस्पर संबंधों पर	
	प्रकाश डालना।	
13	आदिवासी साहित्य और संस्कृति से छात्रों को	
	परिचित कराना।	

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14	छात्रों को संपादकीय कला से अवगत कराना।	
15	यात्रा साहित्य विधा के सैध्दांतिक विवेचन से छात्रों	
	को अवगत कराना।	
16	छात्रों को हिंदी भाषा की व्याकरणिक संरचना से	
	अवगत कराना।	
17	हिंदी साहित्य का काल विभाजन तथा नामकरण से	
	छात्रों को अवगत कराना।	
18	भाषा के विविध रूपों का ज्ञान छात्रों को प्रदान	
	करना।	
19	पाठ्यक्रम में समावेशित कविताओं के आधार पर	
	छात्रों में राष्ट्र के प्रति अस्मिता, स्वाभिमान तथा	
	गौरव का भाव जागृत करना।	
20	छात्रों को हिंदी सिनेमा के इतिहास से अवगत	
	कराना।	
21	भारतीय संत काव्य की विशेषताओं तथा	
	उपलब्धियों का परिचय देना।	
22	हिंदी भाषा के मानक रूप से परिचय कराना।	
23	हिंदी साहित्य इतिहास के आधुनिक काल के	
	साहित्य से परिचित छात्रों को परिचित कराना।	
24	लोकगीत, लोककथा, लोकनाटय और लोकोत्सव	
	आदि से संबंधित प्रतिनितिध साहित्य रचना का	
	अध्ययन और विश्लेषण करना।	

Course Outcomes

Semester-I (F.Y.B.A. HINDI)

After completion of these courses students should be able to;	
Course	Outcomes
F.Y.B.A. DSC HIN A-1 : हिंदी कहानी	 छात्रों को हिंदी कहानी विधा से परिचित करना।
	 छात्रों में मानवीय मूल्यों के प्रति आस्था निर्माण करना।
	 विभिन्न कहानियों के माध्यम से छात्रों की भाषिक क्षमता
	को विकसित करना।
	 छात्रों में विभिन्न कहानियों के माध्यम से सामाजिक
	संवेदना को जागृत करना।

Semester-II (F.Y.B.A. HINDI)

After completion of these courses students should be able to;	
Course	Outcomes
DSC HIN A-1 : हिंदी कविता	 छात्रों को हिंदी कविता विधा से परिचित करना।
	 छात्रों में मानवीय मूल्यों के प्रति आस्था निर्माण करना।
	3) विभिन्न कविताओं के माध्यम से छात्रों की भाषिक क्षमता
	को विकसित करना।
	 छात्रों में विभिन्न कविताओं के माध्यम से सामाजिक,
	राष्ट्रीय संवेदना को जागृत करना।

Semester-III (S.Y.B.A. HINDI)

After completion of these courses students should be able to;		
Course	Outcomes	
MIL-I Hindi – लेखन कौशल : मीडिया	 छात्रों को रचनात्मक लेखन के सैध्दांतिकी से अवगत 	
एवं साहित्य	कराना।	
	 अभिव्यक्ति के विविध क्षेत्रों से छात्रों का परिचय करवाना। 	
	 रचनात्मक लेखन के विविध रूपों से छात्रों को परिचित 	
	कराना।	
	 हिंदी लघुकथाओं के माध्यम से रचनात्मक लेखन की 	
	सर्जन प्रक्रिया को दर्शाना।	
	5) हिंदी लघुकथाओं के माध्यम से मानवीय मूल्यों का संवर्धन	
	एवं संरक्षण करना।	
DSC-1 (C) A HINDI : कथेत्तर गद्य	 कथेत्तर गद्य विधा का विकासात्मक परिचय कराना। 	
विधाएँ	 कथेत्तर गद्य विधा की कालजयी रचनाओं से छात्रों को 	
	परिचित कराना।	
	 कथेत्तर गद्य विधा की रचनाओं के माध्यम से छात्रों में 	
	मूल्य संवर्धन कराना।	
	4) कथेत्तर गद्य विधा की रचनाओं के माध्यम से छात्रों में	
	सामाजिक संवेदनशीलता को बढ़ावा देना।	
SEC-1 HINDI : भाषिक संप्रेषण	 हिंदी भाषा के भाषिक स्वरूप से छात्रों को परिचित 	
	कराना।	
	 भाषिक संप्रेषण की सैध्दांतिकी से छात्रों को परिचित 	
	कराना।	
	 संप्रेषण के प्रमुख प्रकारों से छात्रों में छात्रों को परिचित 	
	कराना।	
	 मौखिक संप्रेषण के विविध रूपों से छात्रों को अवगत 	
	कराना।	
	 लिखित संप्रेषण के विविध रूपों से छात्रों को अवगत 	
	कराना।	

DSE-I (A) HINDI : काव्यशास्त्र	 काव्यशास्त्र का सामान्य परिचय कराना।
	 काव्य की विविधओं से परिचित कराना।
	 अलंकारों का परिचय कराना।
DSE-II (A) HINDI : उपन्यास विधा	 हिंदी उपन्यास विधा का विकासात्मक परिचय कराना।
	2) हिंदी के प्रमुख उपन्यासकारों का सामान्य परिचय देना।
	3) निर्धारित उपन्यास के माध्यम से छात्रों को मानवीय जीवन
	में समय का महत्व, व्यक्ति की विश्वव्यापी स्वाधीनता,
	वृध्दों की समस्या, मूल्य संवर्धन संयुक्त परिवार आदि से
	अवगत कराना।
	 उपन्यास के माध्यम से सामाजिक उत्तरदायित्व के प्रति
	छात्रों में एहसास जगाना।

Semester-IV (S.Y.B.A. HINDI)

After completion of these courses students should be able to;	
Course	Outcomes
MIL- II HINDI : लेखन कौशल : मीडिया	 मीडिया लेखन कौशल से छात्रों को अवगत कराना।
एवं साहित्य (गीत-नवगीत)	 मीडिया लेखन कौशल के विविध प्रकारों से छात्रों को
	अवगत कराना।
	 साहित्य लेखन कौशल से छात्रों को परिचित कराना।
	 हिंदी गीत-नवगीतों के माध्यम से छात्रों में संवेदनशीलता
	विकसित कराना।
	5) हिंदी गीत-नवगीतों से छात्रों को परिचित कराना।
	6) हिंदी गीत-नवगीतों के माध्यम से लेखन की सर्जन प्रक्रिया
	को दर्शाना।
DSC-I (D) A- HINDI : श्रेष्ठ हिंदी	 एकांकी विधा का विकासात्मक परिचय कराना।
एकांकी	 प्रमुख एकांकीकारों का सामान्य परिचय कराना।
	 एकांकीओं के माध्यम से रंगमंचीय प्रभाव को विशद
	कराना।
SEC-II HINDI : अनुवाद विज्ञान	 अनुवाद विज्ञान की प्रविधि से छात्रों को अवगत कराना।
	 अनुवाद विज्ञान की सैध्दांतिक विवेचना करना।
	 साहित्यिक अनुवाद, मशीनी अनुवाद से छात्रों को अवगत
	कराना।
DSE-I (B) HINDI : काव्यशास्त्र	 काव्यशास्त्र का सामान्य परिचय कराना।
	2) गद्य की विविधओं से परिचित कराना।
	 राब्दशक्तियों का परिचय कराना।
	 छंद एवं रसों का परिचय कराना।
	 आलोचना की क्षमता विकसित कराना।
DSE-II (B) HINDI : नाटक विधा	 हिंदी नाटक विधा का विकासात्मक परिचय कराना।
	 हिंदी नाटक और रंगमंच के परस्पर संबंधों पर प्रकाश
	डालना।

 धरती आबा नाटक के माध्यम से आदिवासी समाज का
चित्रण करना।
 आदिवासी साहित्य और संस्कृति से छात्रों को परिचित
कराना।

Semester-V (T.Y.B.A. HINDI)

After completion of these courses students should be able to;		
Course	Outcomes	
MIL III - HINDI : संपादन लेखन और	 छात्रों को संपादकीय कला से अवगत कराना। 	
साहित्य (मुद्रित माध्यम)	 संपादक की योग्यता, दायित्व, और महत्व से परिचित 	
	कराना।	
	 संपादकीय लेखन के तत्त्व और प्रविधि को दर्शाना। 	
	 विभिन्न समाचार पत्र और पत्रिकाओं के उल्लेखनीय 	
	संपादकीय से परिचित करवाना।	
DSC - E (A) HINDI : विशेष विधा : यात्रा	 यात्रा साहित्य विधा के सैध्दांतिक विवेचन से छात्रों को 	
साहित्य	अवगत कराना।	
	2) यात्रा साहित्य विधा के विकासात्म परिचय से छात्रों को	
	परिचित कराना।	
	3) यात्रा साहित्य विधा के प्रमुख साहित्यकार तथा उनके	
	यात्रा वर्णन का ज्ञान छात्रों को प्रदान करना।	
	 'मेरी जपान यात्रा' इस साहित्य कृति के माध्यम से छात्रों 	
	में यात्रा साहित्य लेखन की कला से परिचित कराना।	
SEC III - HINDI : हिंदी व्याकारण और	 छात्रों को हिंदी भाषा की व्याकरणिक संरचना से अवगत 	
अभिव्यक्ति कौशल	कराना।	
	 छात्रों को हिंदी शब्द संसाधन से परिचित कराना। 	
	 छात्रों को संक्षेपण करने की प्रक्रिया से अवगत कराना। 	
	 छात्रों को पल्लवन करने की प्रक्रिया से अवगत कराना। 	
	 वक्तृत्व कला-कौशल की जानकारी से छात्रों को परिचित 	
	कराना।	
	6) वाद-विवाद कला-कौशल की जानकारी से छात्रों को	
	परिचित कराना।	
DSE HINDI III (A) : हिंदी साहित्य का	 हिंदी साहित्य का काल विभाजन तथा नामकरण से छात्रों 	
इतिहास (आदिकाल, भक्तिकाल और	को अवगत कराना।	
रीतिकाल)	2) आदिकालीन साहित्य की प्रमुख प्रिस्थितियों, प्रवृत्तियों	
	तथा प्रमुख रचनाकारों से छात्रों को परिचित कराना।	
	 भक्तिकालीन साहित्य की प्रमुख परिस्थितियों, प्रवृत्तियों 	
	तथा प्रमुख रचनाकारों से छात्रों को परिचित कराना।	
	 4) रीतिलीन साहित्य की प्रमुख परिस्थितियों, प्रवृत्तियों तथा 	
	प्रमुख रचनाकारों से छात्रों को परिचित कराना।	

DSE-IV (A) HINDI : हिंदी भाषा का	 भाषा की परिभाषाओं तथा विशेषताओं से छात्रों को
विकास	अवगत कराना।
	 भाषा के विविध रूपों का ज्ञान छात्रों को प्रदान करना।
	 विविध बोलियों के सामान्य परिचय से छात्रों को परिचित
	कराना।
	 भाषा के व्युत्पत्ति विषय सिध्दांत से छात्रों को परिचित
	कराना।
	5) हिंदी के प्रचार एवं प्रसार में खान्देश के साहित्यकारों के
	योगदान से छात्रों को अवगत कराना।
	6) हिंदी के प्रचार एवं प्रसार में विविध संस्थाओं के योगदान
	को उजागर करना।
GE- I (A) HINDI : हिंदी की राष्ट्रीय	 हिंदी की राष्ट्रीय काव्यधारा से छात्रों को अवगत कराना।
काव्यधारा	 हिंदी की राष्ट्रीय काव्यधारा का विकासात्मक परिचय
	प्रस्तुत करना।
	 हिंदौ की राष्ट्रीय काव्यधारा के प्रमुख कवियों का सामान्य
	देना।
	 भारतीय स्वतंत्रता आंदोलन में हिंदी की राष्ट्रीय
	काव्यधारा के योगदान को उजागर करना।
	 पाठ्यक्रम में समावेशित कविताओं के आधार पर छात्रों में
	राष्ट्र के प्रति अस्मिता, स्वाभिमान तथा गौरव का भाव
	जागृत करना।

Semester-VI (T.Y.B.A. HINDI)

After completion of these courses students should be able to;	
Course	Outcomes
MIL IV – HINDI : हिंदी सिनेमा और	 छात्रों को हिंदी सिनेमा के इतिहास से अवगत कराना।
साहित्य (ईलेक्ट्रिनिक माध्यम)	 सिनेमा और भारतीय समाज के संबंध का परिचय देना।
	 हिंदी सिनेमा के तकनीकी पक्ष से परिचित कराना।
	 साहित्य कृति पर आधारित सिनेमा से परिचित करवाना।
	5) 'मोहनदास' की कहानी के माध्यम से सामाजिक यथार्थ
	को दर्शाना।
DSC - F HINDI (A) : विशेष विधा :	 भारतीय संत काव्य का परिचय कराना।
भारतीय संत काव्य	 भारतीय संत काव्य परंपरा का विकासात्मक परिचय
	करवाना।
	 भारतीय संतों के काव्य का अध्ययन कराना।
	 4) भारतीय संत काव्य की विशेषताओं तथा उपलब्धियों का
	परिचय देना।

SEC IV - HINDI : हिंदी भाषा का	 हिंदी भाषा के मानक रूप से परिचय कराना।
मानकीकरण और अशुध्दि-शोधन	 देवनागरी लिपि तथा हिंदी वर्तनी संबंधी नियमावली की
	जानकारी देना।
	 3) शासकीय पत्र प्रारूप-लेखन की क्षमता विकसित करना।
	 साक्षात्कार प्रणाली की क्षमता को विकसित करना।
	 राुध्द-लेखन की क्षमता को विकसित करना।
DSE HIND-III (B) : हिंदी साहित्य का	 हिंदी साहित्य इतिहास के आधुनिक काल के साहित्य से
इतिहास (आधुनिक काल)	परिचित छात्रों को परिचित कराना।
	2) हिंदी साहित्य के आधुनिक काल के साहित्य की प्रमुख
	प्रवृत्तियों तथा रचनाकारों से छात्रों को अवगत कराना।
	 हिंदी साहित्य इतिहास के आधुनिक काल के पद्य और
	गद्य साहित्य तथा प्रमुख साहित्यकारों का ज्ञान छात्रों को
	प्रदान करना।
	 आधुनिक काल के साहित्य की प्रमुख उल्लेखनीय
	कृतियों का छात्रों को परिचय देना।
DSE-IV (B) HINDI : भाषा विज्ञान	 भाषा विज्ञान की परिभाषाएँ तथा भाषा विज्ञान के विविध
	अंगों से छात्रों को परिचित कराना।
	 भाषा विज्ञान तथा व्याकरण के तुलनात्मक अध्ययन का
	ज्ञान छात्रों को प्रदान करना।
	 ध्वनि विज्ञान से संबंधित विविध मुद्दों से छात्रों को परिचित
	कराना।
	 4) रूप (पद) विज्ञान से संबंधित विविध मुद्दों से छात्रों को
	परिचित कराना।
	5) वाक्य विज्ञान से संबंधित विविध मुद्दों से छात्रों को परिचित
	कराना।
	6) अर्थ विज्ञान से संबंधित विविध मुद्दों से छात्रों को परिचित
	कराना।
GE-I (B) HINDI : खानदेश का लोक	 लोक साहित्य सैध्दांतिकी से छात्रों को परिचित कराना।
साहित्य	 खानदेश के लोक साहित्य और लोक संस्कृति से छात्रों
	को अवगत कराना।
	 छात्रों को खानदेश की प्रमुख बोलियाँ : अहिराणी, लेवा
	और आदिवासी के साहित्य से अवगृत कराना।
	 लोकगीत, लोककथा, लोकनाटय और लोकोत्सव आदि
	के माध्यम से खानदेश की लोक संस्कृति का साक्षात्कार
	कराना।
	 ठ) लोकगीत, लोककथा, लोकनाटय और लोकोत्सव आदि
	से सुबंधित प्रतिनितिध साहित्य रचना का अध्ययन और
	विश्लेषण करना।

Department of English

Under Graduate (UG)

Department of English	After successful completion of three year degree program in
	English student should be able to;
Programme Outcomes	 Understood how the developments in the field of Humanities have improves the quality of life and how they have satisfied the aspirations, intensions likes and dislikes and how they could modify them. Students should be familiar with representative literary and cultural texts within a significant number of historical, geographical, and cultural contexts. Students should be able to apply critical and theoretical approaches to the reading and analysis of literary and cultural texts in multiple genres. Students should be able to identify, analyze, interpret and describe the critical ideas, values, and themes that appear in literary and cultural texts and understand the way these ideas, values, and themes inform and impact culture and society, both now and in the past. Students should be able to ethically gather, understand, evaluate and synthesize information from a variety of written and electronic sources. Students should be able to ethically gather, understand, evaluate and synthesize information from a variety of written and electronic sources.
Programs Specific Outcome	 Realized the importance of literature in creating aesthetic, mental, moral, intellectual development of an individual and maintaining a healthy society. Understand major and minor forms of literature. Have developed interest in literature and language. Understand the structure and function of grammatical units. Know the use of language at semantic and syntactic levels. The students could use English effectively in formal and informal situations. Attempt creative writings. Know phonological and morphological aspects of English. Be employable and ready to do jobs in industry, government, schools and offices. Have enriched confidence to appear for competitive examinations

Course Outcomes

Semester-I (F.Y.B.A. ENGLISH)

After completion of these courses students should be able to;	
Course	Outcomes
Compulsory English	1) Students will acquaint with various genres literature
	prose, short stories and poetry.
	2) Students will be familiar with various types of written
	skills.
	3) Students will acquaint with various language skills.
	4) Students will get fluent in four basic skills of English
	Language i.e. Listening, Speaking, Reading & Writing
	(LSRW).
	5) Student will practice various modes written skills.
DSC-Discipline	1) Student will familiar with the basic forms of literature.
Specific Course 1- ENG-A	2) Student will acquaint with the broader genres of literature
Reading Literature-Short	in general.
Stories	3) Student will develop understanding of literature, short
	stories.
	4) Student will develop reading skill and ability of
	understanding through literature.

Semester-II (F.Y.B.A ENGLISH)

After completion of these courses students should be able to;	
Course	Outcomes
Compulsory English	1) Students will acquaint with various genres literature
	prose, short stories and poetry.
	2) Students will be familiar with various types of written
	skills.
	3) Students will acquaint with various language skills.
	4) Students will get fluent in four basic skills of English
	Language i.e. Listening, Speaking, Reading & Writing
	(LSRW).
	5) Student will practice various modes written skills.
DSC-Discipline	1) Student will familiar with the basic forms of literature.
Specific Course 1- ENG-B	2) Student will acquaint with the broader genres of literature
Reading Literature-Poems	in general.
	3) Student will develop understanding of literature, poems.
	4) Student will develop reading skill and ability of
	understanding through literature.

Semester-III (S.Y.B.A. ENGLISH)

After completion of these courses students should be able to;	
Course	Outcomes
Compulsory English	1) The Paper of Compulsory English is specifically framed from the viewpoint of value education which is
	the basis of quality life.
	2) Selection of contents in all the courses will help the
	students to comprehend the worldly wisdom and
	commercial perception which will ultimately lead them
	to be successful and enjoy quality life.
DSE-1-A (16 th Century English	1) To acquaint the students with the major literary trends
Literature)	and tendencies and prominent writers of the 16th and
	17th Century English Literature.
	2) To make the students aware about the literary history,
	salient features and sociocultural background of the
	period.
	3) To help the students to grasp the content and critically
	appreciate the prescribed texts.
	4) To inculcate amongst students a liking for the
	Elizabethan and Post Shakespearean literature.
DSE-2-A- (18 th Century English	1) Students will acquaint with basic ideas about the 18 th Century
Literature)	2) Students will be familiar about the literary history salient
	features socio-political and cultural background of the
	Romantic age.
	3) Students will grasp the content and critically appreciate the
	prescribed poems and novel.
	4) Students will acquaint with the various literary movements of
	the 18 th and English Literature.
	5) Students will take keen interest in 18 th Century English
DSC 1 C Study of Noval	1) Student will be acquainted with neural as some of
DSC-1-C Study of Novel	1) Student will be acquainted with novel as genres of
	 Students will take interest in reading novel
	3) Students will take interest in understanding novel
	4) Student will develop their competence to study
	understand, analyses and interpret novel
	5) Student will acquaint with the key terms useful in the
	study of novel.
	6) Student will familiar with different types of novel.

SEC-1 Eng. For Competitive	1) The students will be able to prepare for the competitive
Examination	exams of various kinds especially meant for testing
	ability in English language.
	2) The students will be acquainted with the common
	question types asked in competitive examinations
	concerning English- grammar, vocabulary,
	comprehension, and other significant topics.
	3) This paper will encourage students to appear and prepare
	for the competitive exams.
	4) This will help the students to overcome the fear about
	English as a compulsory subject in various competitive
	exams.

Semester-IV (S.Y.B.A. ENGLISH)

After completion of these courses students should be able to;	
Course	Outcomes
Compulsory English	1) The Paper of Compulsory English is specifically framed
	from the viewpoint of value education which is the
	basis of quality life.
	2) Selection of contents in all the courses will help the
	students to comprehend the worldly wisdom and
	commercial perception which will ultimately lead them
	to be successful and enjoy quality life.
DSE-1-B-(17 th Century English	1) To acquaint the students with the major literary trends
Literature)	and tendencies and prominent writers of the 16th and
	17th Century English Literature.
	2) To make the students aware about the literary history,
	salient features and sociocultural background of the
	period.
	3) To help the students to grasp the content and critically
	appreciate the prescribed texts.
	4) To inculcate amongst students a liking for the
	Elizabethan and Post Shakespearean literature.
DSE-2-B- (19 th Century English	1) Students will acquaint with basic ideas about the 19 th Century
Literature)	English Literature with special reference to poetry.
	2) Students will be familiar about the literary history, salient
	features, socio-political and cultural background of the
	Victorian age.
	3) Students will grasp the content and critically appreciate the
	prescribed poems and novel.
	4) Students will acquaint with the various literary movements of the 10th contury English Literature
	The 19 ^m century English Literature.
	Literature

DSC-1- D Study of Drama	1) Student will be acquainted with drama as genres of literature
	2) Students will take interest in reading drama.
	3) Students will take interest in understanding drama.
	4) Student will develop their competence to study,
	understand, analyses and interpret drama.
	5) Student will acquaint with the key terms useful in the study of drama.
	6) Student will familiar with different types of drama.
SEC-2 -Eng. For Competitive	1) The students will be able to prepare for the competitive
Examination	exams of various kinds especially meant for testing
	ability in English language.
	2) The students will be acquainted with the common
	question types asked in competitive examinations concerning English- grammar, vocabulary, comprehension, and other significant topics.
	3) This paper will encourage students to appear and prepare
	for the competitive exams.
	4) This will help the students to overcome the fear about
	English as a compulsory subject in various competitive
	exams.

Semester-V (T.Y.B.A. ENGLISH)

After completion of these courses students should be able to;	
Course	Outcomes
AEC-Developing	1) Students will acquaint with various modes of
Communication Skill	communication
(Comp. Eng.)	2) Students will be familiar with various types of written
	communication
	3) Students will acquaint with various types of oral
	communication.
	4) Students will get fluent in four basic skills of English
	Language i.e. Listening, Speaking, Reading & Writing
	(LSRW).
	5) Student will practice various modes of communication.
DSE-3-ENG-A Twentieth	1) The students will be familiar with development of poetry
Century English Literature	in English.
	2) The students will be acquainted with features and types of
	modern poetry, drama and novel.
	3) The students will be introduced with major poets,
	novelists and dramatists in modern English literature and
	contribution of them to English Literature.
	4) The students will comprehend literary trends, tendencies
	in British Poetry, Drama and Novel.

DSE-4-ENG-A The Study of	1) To introduce the students to the properties, styles, and
English Language	varieties of English language.
	2) To acquaint the students with grammatical forms and
	functions in English language.
	3) To enable the students, learn and practice morphological
	concepts and word formation processes.
	4) To introduce the students to the basic concepts in
	semantic, lexis and syntax in English language.
DSC-1-ENG-E Indian Writing	1) The students will be familiar with development of English
in English	Literature with reference to Poetry and Novel by Indian
	Writers.
	2) The students will be acquainted with major writers of
	Indian English Literature.
	3) The students will understand the content, techniques and
	styles of Indian writers in English.
	4) The students will comprehend trends, movements and
	features of Indian English writing with reference to
	Poetry and Novel.
SEC-3-ENG-English for	1) Students will enable to learn and practice usages in
Practical Purposes	spoken and written English.
_	2) Students will acquaint with various skills in using
	practical English in real life situation.
	3) Students will encourage to prepare for attending job
	interviews, develop presentation skills, learn professional
	skills in communicative English.
	4) Student will able to exercise spoken and written English
	skills for their career development.
GEC-GE-ENG-A Film and	1) To introduce the students the concept of film and its
Literature	origin and development.
	2) To make the students able to understand the similarities
	and differences in film and literature
	3) To enable the students, explore the process of adaptation
	and come to an understanding of how film interacts with
	other cultural forms such as theatre and fiction.
	4) To help the students analyze and judge film as an
	adaptation of literary text.
	5) To develop among the students the ability to comprehend
	art of cinema making from a literary text.

Semester-VI (T.Y.B.A. ENGLISH)

After completio	After completion of these courses students should be able to;	
Course	Outcomes	
AEC-Developing	1) Students will acquaint with various modes of	
Communication Skill	communication	
(Comp. Eng.)	2) Students will be familiar with various types of written	
	communication	
	3) Students will acquaint with various types of oral	
	communication.	
	4) Students will get fluent in four basic skills of English	
	Language i.e. Listening, Speaking, Reading & Writing	
	(LSRW).	
	5) Student will practice various modes of communication.	
DSE-3-ENG-B Twentieth	1) The students will be familiar with development of poetry	
Century English Literature	in English.	
	2) The students will be acquainted with features and types	
	of modern poetry, drama and novel.	
	3) The students will be introduced with major poets,	
	novelists and dramatists in modern English literature and	
	contribution of them to English Literature.	
	4) The students will comprehend literary trends, tendencies	
	in British Poetry, Drama and Novel.	
DSE-4-ENG-B The Study of	1) To introduce the students to the properties, styles, and	
English Language	varieties of English language.	
	2) To acquaint the students with grammatical forms and	
	Tunctions in English language.	
	5) To enable the students, learn and practice	
	(1) To introduce the students to the basic concepts in	
	4) To introduce the students to the basic concepts in semantic, levis and syntax in English language	
DSC-1-FNG-F Indian Writing	1) The students will be familiar with development of	
in English	Finalish Literature with reference to Poetry and Novel by	
in English	Indian Writers	
	2) The students will be acquainted with major writers of	
	Indian English Literature.	
	3) The students will understand the content, techniques and	
	styles of Indian writers in English.	
	4) The students will comprehend trends, movements and	
	features of Indian English writing with reference to	
	Poetry and Novel.	

SEC-4-ENG-English for	1) Students will enable to learn and practice usages in
Practical Purposes	spoken and written English.
	2) Students will acquaint with various skills in using
	practical English in real life situation.
	3) Students will encourage to prepare for attending job
	interviews, develop presentation skills, learn
	professional skills in communicative English.
	4) Student will able to exercise spoken and written English
	skills for their career development.
GEC-GE-ENG-B Film and	1) To introduce the students the concept of film and its
Literature	origin and development.
	2) To make the students able to understand the similarities
	and differences in film and literature
	3) To enable the students, explore the process of
	adaptation and come to an understanding of how film
	interacts with other cultural forms such as theatre and
	fiction.
	4) To help the students analyze and judge film as an
	adaptation of literary text.
	5) To develop among the students the ability to
	comprehend art of cinema making from a literary text.

Post Graduate (PG)

After successful completion of two-year degree program in (<u>M.A. ENGLISH)</u> a student should be able to;	
Programme Outcomes (POs)	•
Program Specific Outcomes (PSOs)	•

Semester-I (M.A. ENGLISH)

After completion of these courses st	udents should be able to;
Course	Outcomes
Core Paper ENG 111 & 121	1) The students will acquaint themselves with the nature
An Introduction To Linguistics	of human language and its use.
	2) The students will understand how to do the
	developments in the field of linguistics.
	3) The students will be familiarized with the recent trends
	1) The students to make aware of the relation of language
	4) The students to make aware of the relation of fanguage
	5) This course is framed in order to develop amongst the
	students the stylistic competence for analyzing literary
	texts
Core Paper ENG: 112 & ENG:	1) The students will be acquainted with the most significant
122- English Poetry	English Poets through the study of the representative
	poems
	2) This course will enable the students to understand the
	different trends in English poetry
	3) The students will be familiarised with different
	 A) This course will train the students in the close reading of
	4) This course will train the students in the close reading of the poems prescribed
	5) This will enable the students to compare and contrast the
	poems prescribed
	6) The students will be enabled to understand different
	thematic patterns, poetic structures, poetic devices and
	stylistic peculiarities
	7) This course is framed in order to develop among the
	students the ability to interpret, analyze and evaluate
	English poems in the context of literary history and
Cana Daman ENC: 112 & ENC:	theory of different movements of poetry in English
Core Paper ENG: 115 & ENG: 123 English Drama	1) This course will introduce the students to a wide range of theatrical practices around the world
125 English Drama	2) The students will be introduced with various genres of
	drama.
	3) The learners will be enabled to understand the elements
	of drama and theatre
	4) This course will enable the students to get a historical
	perspective of English Drama
	5) This will enable the students to compare and contrast
	dramatic works illustrative of different periods of
	literary history.
	b) I his course will enable the students to learn and develop English language proficiency, both written and english
	English language pronolency, both written and spoken

Optional Course ENG: 114 (A)	1) This course will acquaint the students with selected
& ENG: 124 (A) Indian Writing	masterpieces in Indian Writing in English.
In English	2) The students will be able to read and appreciate the
	works of Indian authors writing in English
	3) The students will be acquainted with the development of
	different genres in Indian Writing in English.
	4) The students will be aware of social, political and
	cultural issues reflected in Indian Writing in English.

After completion of these courses students should be able to;		
Course	Outcomes	
Core Paper ENG 111 & 121	1) The students will acquaint themselves with the nature of	
An Introduction To	human language and its use.	
Linguistics	2) The students will understand how to do the developments	
	in the field of linguistics.	
	3) The students will be familiarized with the recent trends in	
	linguistics.	
	4) The students to make aware of the relation of language to	
	brain, society, machine and law.	
	5) This course is framed in order to develop amongst the	
	students the stylistic competence for analyzing literary	
	texts	
Core Paper ENG: 112 &	1) The students will be acquainted with the most significant	
ENG: 122- English Poetry	English Poets through the study of the representative poems	
	2) This course will enable the students to understand the	
	different trends in English poetry	
	3) The students will be familiarised with different movements	
	in English poetry	
	4) This course will train the students in the close reading of the	
	poems prescribed	
	5) This will enable the students to compare and contrast the	
	O The students will be enabled to understand different	
	6) The students will be enabled to understand different thematic pottome, postio structures, postio devices and	
	atuliatic paculiaritica	
	7) This course is framed in order to develop among the	
	students the ability to interpret analyze and evaluate	
	English poems in the context of literary history and theory	
	of different movements of poetry in English	
	or anterent movements or poetry in English	

Semester-II (M.A. ENGLISH)

Core Paper ENG: 113 &	1) This course will introduce the students to a wide range of
ENG: 123 English Drama	theatrical practices around the world.
	2) The students will be introduced with various genres of
	drama.
	3) The learners will be enabled to understand the elements of
	drama and theatre
	4) This course will enable the students to get a historical
	perspective of English Drama
	5) This will enable the students to compare and contrast
	dramatic works illustrative of different periods of literary
	history.
	6) This course will enable the students to learn and develop
	English language proficiency, both written and spoken
Optional Course ENG: 114	1) This course will acquaint the students with selected
(A) & ENG: 124 (A) Indian	masterpieces in Indian Writing in English
Writing In English	The students will be able to read and appreciate the works
Witting in English	2) The students will be able to read and appreciate the works
	of Indian authors writing in English
	3) The students will be acquainted with the development of
	different genres in Indian Writing in English.
	4) The students will be aware of social, political and cultural
	issues reflected in Indian Writing in English

Semester-III (M.A. ENGLISH)

After completion of these courses students should be able to;	
Course	Outcomes
Core Paper ENG 231 and	1) This course will introduce the students to a wide range of
241: Literary Theory and	critical methods, literary theories and concepts
Concepts	 2) The Study of course will enable them to use the various critical approaches and advanced literary theories 3) The learners will be familiarized with the trends and cross-disciplinary nature of literary theories. 4) This course will enable students to use various critical tools in the analysis of literary and cultural texts.

Core Paper ENG 232 and 242: English Novel	 This course will introduce the students with the growth and development of English novel The students will be acquainted with the contribution of the novelists to the Genre. This will enable the students to understand the different aspects of novel in different social and cultural contexts. The study of this paper will enable the students to understand the human values, psyche and issues raised in the representative novels To familiarize the students with verities of English through the reading of the prescribed novels
Core Paper ENG 233 and 243: Basics of Research in English Language and Literature	 This course will introduce the students with the term 'research 'and its importance The students will be acquainted with the basic elements of research in English language and English literature. The students will be familiar with difference in the research of English language and literature The students will be acquainted with nature, aspects, types and areas of research in English language and literature The students will be acquainted with research questions, methods and framing of outlines
Optional Paper ENG 234 and 244 (B): American Literature	 This course will introduce the students with selected masterpieces in American Literature. The students will be acquainted with the development of different genres in American Literature This will make the students aware about social, political and cultural issues reflected in American Literature. This paper will introduce the students with the trends and tendencies in American Literature

Semester-IV (M.A. ENGLISH)

After completion of these courses students should be able to;		
Course	Outcomes	
Core Paper ENG 231 and 241:	1) This course will introduce the students to a wide range	
Literary Theory and Concepts	of critical methods, literary theories and concepts	
	2) The Study of course will enable them to use the various	
	critical approaches and advanced literary theories	
	3) The learners will be familiarized with the trends and	
	cross-disciplinary nature of literary theories.	
	4) This course will enable students to use various critical	
	tools in the analysis of literary and cultural texts.	
Core Paper ENG 232 and 242:	1) This course will introduce the students with the growth	
English Novel	and development of English novel	
	2) The students will be acquainted with the contribution of	
	the novelists to the Genre.	
	3) This will enable the students to understand the different	
	aspects of novel in different social and cultural contexts.	
	4) The study of this paper will enable the students to	
	understand the human values, psyche and issues raised	
	in the representative novels.	
	5) To familiarize the students with verifies of English	
	through the reading of the prescribed novels	
Core Paper ENG 233 and 243:	1) This course will introduce the students with the term	
Language and Literature	research and its importance	
Language and Literature	2) The students will be acquainted with the basic elements	
	a) The students will be familiar with difference in the	
	5) The students will be familiar with difference in the	
	1) The students will be acquainted with neture aspects	
	4) The students will be acquainted will hature, aspects, types and areas of research in English language and	
	literature	
	5) The students will be acquainted with research	
	auestions methods and framing of outlines	
Optional Paper ENG 234 and 244	1) This course will introduce the students with selected	
(B): American Literature	masterpieces in American Literature.	
	2) The students will be acquainted with the development	
	of different genres in American Literature	
	3) This will make the students aware about social, political	
	and cultural issues reflected in American Literature.	
	4) This paper will introduce the students with the trends	
	and tendencies in American Literature	

Department of Economics

Under Graduate (UG)

Department of	After successful completion of three year degree program in
Economics	Economics student should be able to;
Programme Outcomes	 Students enable to develop academic proficiency in the subfields of Indian Government and Economic Politics, Comparative Government, International Relations, Public finance, Economical Theory. Students enable to develop and be able to demonstrate skills in conducting as well as presenting research in Economics. Students enable to analyze Economical policy problems and formulate New policy options. Students enable to discuss the major theories and concepts of Economical science and its subfields, and also deliver thoughtful and well-articulated presentations of research. Students enable to appreciate the socio-economic factors which lead to the develop and be able to Financial Litercy.

F.Y.B.A (Economics)

Course	Outcomes
(G-1 : GENERAL ECONOMICS) - Part – I Paper code Eco G-101(A): Priciples of Micro-economics- 1	 Introduced the students to the basic principles of microeconomic theory. To introduced the students behaviour of consumer, producer in Economy, Price determination in market and also factor pricing. How to microeconomic concepts can be applied to analyze real life situations.
Course	Outcomes
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Indian Economy Since 1980- I&II DSC Eco 231 C & DSC Eco 241 D	 To enable students to have understanding the various issues of Indian Economy. To develop the analysing capability in the context of current Indian Economic Problems. To able the students for appearing the MPSC, UPSC and other competitive Examinations.
CBCS Pattern Advanced Macro Economics-I&II DSE Eco 233 A & DSE Eco 243 B	 To acquaint the student knowledge of Macroeconomics concept and theories. To acquaint the student knowledge of Macroeconomics problem and policies. To develop the analysing capacity in applying theories to real life situation.
Agricultural Economics –I&II DSE Eco 232 A & DSE Eco 242 B	 To enable students basic concept of agriculture To introduce Agriculture Theory for various competitive exam To enable students have understand verious dimensions in Agriculture

T.Y.B.A (Economics)

Course	Outcomes
DSC -1 (E & F) Eco-351 & 361 Indian Economy Since 1980 –III & IV	 To enable students to have understanding the various issues of Indian Economy. To develop the analysing capability in the context of current Indian Economic Problems. To able the students for appearing the MPSC, UPSC and other competitive Examinations
DSE -3 (A & B) Eco-352(A) &362(A) Economics of Public Finance –I & II	 To enable students to have understanding the various issues of Public Finance and Policies. To develop the analyzing capability in the context of Public Finance and Policies. To enable the students for appearing the MPSC, UPSC and other competitive Examinations.

DSE-4(A & B) Eco-353 (A) & 363 (A) Theory of International Trade and Practices – I & II	 To enable students to have understanding the various issues of International Trade and Practices. To develop the analyzing capability in the text context of International Trade and Practices To able the students for appearing the MPSC, UPSC and other competitive Examinations.
SEC (3 & 4) Eco-354, Eco- 364 Modern Banking & Indian Financial Market	 To provide the students basic knowledge of Banking & Financial market. To provide the information of Indian Banking system. To updated the students about new changes and technology in Banking. To know the relevance of banking practices in modern competitive world.
Generic Elective GE- 2 (A & B) Eco-355 & Eco-365 Indian Economic Environment- I & II	 To introduce the students Economics Environment for Business. To provide the information of Indian Economics Environment. To update the students about new reform in Indian Economy. To prepare the students for competitive examination.

Department of Geography

Under Graduate (UG)

Department of	After successful completion of three year degree program in
Geography	Geography student should be able to;
Department of Geography Programs Specific Outcome	 After successful completion of three year degree program in Geography student should be able to; Geography is interdisciplinary subject having the constant status in all disciplines and Faculties. This subject is learn not only in Science, Commerce and Arts faculties but also in Engineering, IT, Survey of India, Tourist Industries, Military etc. In recent and advanced days traditional courses of geography could not provide the job opportunities to geography Students. Urban Planner or Community Development: – Geography is a natural tie-in with urban or city planning. City planner's work on zoning, land use, new developments, from a gas station renovation to the development of whole new sections of urban area. You'll work with individual property owners, developers and other officials. If you are interested in this area, be sure to take Urban Geography and Urban Planning classes. An internship with a city planning agency is essential experience for this type of work. Cartographer: – For those with cartography courses backgrounds may enjoy work as a cartographer. The news media, book publishers, atlas publishers, government agencies and others are looking for cartographers to help produce maps. This would likely require relocation. GIS Specialist: – City Governments, Country Agencies and other Government and Private Agencies or Groups are often in need of experienced GIS professionals. Coursework and internship in GIS are especially important. Computer programming or engineering skills are very helpful in this arena- the more about computers and languages you know, the better off you are. Climatologist: – Agencies like National Weather Services, News Media, the Weather Forecasting Channels, and other Government Entities occasionally need Climatologist. Admittedly, these Jobs usually go to those with Meteorology
	 other Government and Private Agencies or Groups are often in need of experienced GIS professionals. Coursework and internship in GIS are especially important. Computer programming or engineering skills are very helpful in this arena- the more about computers and languages you know, the better off you are. Climatologist: – Agencies like National Weather Services, News Media, the Weather Forecasting Channels, and other Government Entities occasionally need Climatologist. Admittedly, these Jobs usually go to those with Meteorology Degrade a Geographer with experience and uset experience.
	 Degrees, a Geographer with experience and vast coursework in Meteorology and Climatology would definitely be an asset. Transportation Management: – Like Urban and City Planning, there are opportunities in local Government but regional transit authorities or shipping, logistics, and

transportation companies look kindly to someone with
transportation Geography in their background and good
computer and analytical skills.
• Environmental Management: – A plethora of Environmental
Assessment, cleanup, and management companies exist
throughout the world today. A Geographer brings excellent
skills for project management and the development of reports
like Environmental impact reports. It's often a wide-open
field with tremendous growth opportunities.

Semester-I

Course	Outcomes
Gg. 101:Physical Geography Part-I (Lithosphere)	 To understand components, interactions on the Earth surface and in the interior of the Earth. To aware about the changes and degradation of land cover.
Semester-II	

Gg. 201:Physical Geography	1) To understand components, interactions in the atmosphere &
Part-Ii (Atmosphere &	hydrosphere.
Hydrosphere)	2) To aware about the climate changes and degradation natural
	resources.

Semester-III

DSC-C (Gg.231): General Cartography	1) To acquaint the knowledge about understanding of Cartographical concepts
Gg. 232 (DSE 1 A): Geography Of Tourism	 To develop and communicate basic conceptual frame work of Geo Tourism. To realize its potentials and against achieved in the Indian context. To understand the various Geo tourism. To know the role and responsibilities, economic growth of Tourism industry in India. To evaluate the role of various organization of tourism. To know the importance of the sustainable tourism To develop Socio cultural aspects for the Tourism geography.
Gg. 234 (SEC 1): Regional Planning And Development	 Student will become well aware about the Regional Planning and Development. Students will get the knowledge of planning, its limitation Students will be able to participate in planning and regional development Students will get knowledge about various approaches and models of regional planning and development. Students will be aware of the Special area development plans and Agro Ecological Zones of Maharashtra

Cg 233 (DSF 2 A): Practical	1) To give basic information about various tools and techniques used
Geography (Scale and Map	in making maps.
Projections)	2) To understand the concept of scale at the initial stage
	3) To know how to draw the maps on various scale
	4) To acquaint the students with basic of Scale, Map Projections and
	cartographic Techniques
	5) To enable the students to use Scale Map Projections and
	cartographic techniques

Semester-IV

DSC-D (Gg. 241): Human	1) To acquaint the knowledge about understanding of Human Races
Geography	in the World.
Gg. 242 (DSE 1 B): Geography	1) To make the students able to understand Geographical Personality
Of India	of India.
	2) To study minerals and power resources in the specific regions of
	India.
	3) To study the nature of industries and their development in India.
	4) To aware the students about agricultural and demographic
	problems and make them able to find.
Gg. 244 (SEC 2): Remote	1) To understand the principles of Remote Sensing.
Sensing And Gps Based Project	2) To acquaint the students with fundamental concepts of Aerial
Report	Photography.
	3) To introduce students with advance techniques for data
	collection.
	4) To learn principles and applications of GPS.
	5) To learn basics of GPS based survey.
Gg. 243 (DSE 2 B): Practical	1) To acquire knowledge of survey language and sense of technique
Geography (Surveying)	of surveying.
	2) To know the scale and distance of surveying.
	3) To know how to draw layout by surveying of region.
	4) To acquaint the students with basic knowledge and technique of
	ground survey.
	5) To acquire the knowledge of survey instruments.
	6) To provide basic information about mechanism of survey
	instruments.
	7) To acquaint the knowledge how to use survey instruments.
	8) To know the importance of surveying and survey instruments.

Semester-V

Gg. 351 (DSC 1E)	1) To create the environmental awareness amongst the students
Environmental Geography	2) 2 To acquaint the students with fundamental concepts of
Litti olimentar Geography	Environmental Geography
	3) 3 To aware the students about the processes and patterns in the
	natural environment
	4) 4 To acquaint the students with potentials of Environmental
	Geography
	5) 5 To aware the students about use of resources with prudence
	6) 6 To acquaint the students with different environmental policies
Gg. 352 (DSE 3A) Economic	1) To acquaint the students with the knowledge of economic realm in
Geography	the world
Geography	2) To highlight the different economic activities
	3) To study mineral and power resources in the specific regions of the
	world.
Ca 353 (DSE 4A) Practical in	1) To introduce the prestical enpress of Human Geography
Gg. 555 (DSE 4A) Fractical III	 To introduce the plactical approach of Human Geography. To introduce the importance of statistical techniques in Human
Statistics	2) To introduce the importance of statistical techniques in Human Geography
Statistics.	3) To introduce some basic research methods to the students
	3) To infloduce some basic research methods to the students.
Gg. 354(SEC 3) Field	1) To introduce the analytical skill of field-work.
Techniques and Introduction	2) To develop the skill of selection of appropriate technique for field
to Project Report.	study.
	3) To enable the student to frame different types of questionnaires to
	conduct a field study.
	4) 4) To develop the analytical interpretation and report writing based
	upon the data collected during a field study.
Gg. 355 (GE 1A) Disaster Risk	1) To introduce the concept of disaster risk
Reduction.	2) To prepare DRM Plans and its implementation
	3) To aware the students about the Disaster Risk
	Reduction/Mitigation strategies.
	The section of the se

Semester-VI

Gg. 361 (DSC 1F) Population	1) Understand the components of population change.
Geography.	2) Develop skills to use population information in the planning
	process.
	3) Understand the impact of planning activities on population size,
	composition, and distribution
	4) Population is an important resource. The development of any
	nation is depends on human resource. It is a prime deity to acquaint
	with the human resource of the nation.
	5) To understand the recent problems of population in the world as
	well as nation.

Gg.362 (DSE 3B) Political Geography	 To enable students to acquire knowledge of Political Geography. To understand basic concepts of Political Geography. To study various theories of Political Geography. 4) To understand the frontiers and Boundaries.
Gg. 363 (DSE 4B) Practical in Physical Geography	 To introduce the students with SOI toposheets and to acquire the knowledge of toposheet Reading / interpretation. To acquaint the students with IMD weather maps and to gain the knowledge of weather map reading/ interpretation.
Gg. 364 (SEC 4) Geographical Information System.	 To introduce the fundamentals and components of Geographic Information System . To provide details of spatial data structures and input, management and output processes. To aware about the application of GIS in various fields.
Gg. 365 (GE 1B): Sustainability And Development	 It brings to attention the Students about the issues which surround Sustainable Development, including its Principles, Processes and Concepts, its Deciding factors, and Potentials it holds. Students will get the information and Importance of the MDGS. Students will be aware about National Environmental Policy.

POST GRADUATE (PG)

Department of	After successful completion of two year degree program in Geography
Geography	student should be able to;
Programs Specific	1) Govt Department: A geographer can avail job opportunities in
Outcome	government departments (like planning and developmental
	commissions, forestry, environmental, and disaster management
	departments etc), travel agencies, manufacturing firms, text book and
	map publishers, media agencies, etc.
	2) Cartographer: Many people choose to work as a cartographer who is
	a person with extensive knowledge about maps and is involved in
	making maps, charts, globes, and models of Earth and other planets.
	3) Surveyor: Many others with a degree in geography also opt to work
	as a surveyor. A surveyor is the person who is involved in measuring
	the surface of land, distance between two places through mathematical
	calculations. Their job involves lot of on the field work and is majorly
	recruited by state and central survey departments, construction
	companies and so on. At SY and TY level Plane Table Survey, GPS
	Surveys are included in the syllabus. Many posts of surveyors are
	vacant in privet sector and Govt department of survey.
	4) GPS Surveyors: In recent days even the fields of GIS as well as
	Remote Sensing are providing job opportunities to people with the
	educational background in geography and related specialisations. And
	not to forget the management of the lifelines of most modes of
	transport that occurs via travel and tourism wherein people with a
	background in geography are often recruited (along with the required

 certifications) as tour operators, itinerary planners, tour guides and so on. Also those with PhD or relevant master's can also opt to teach the subject at school, college or masters level or may be involved in developing educational content for the relevant subject. Indeed, it is correctly said that geography is verywhere and opens our eyes to the world we live in, and so for those curious souls who love to know more and explore about the earth, the road towards geography may lead you to your final destination! Get going 5) Geographers provide their services in diverse fields. There are comparatively few geographers so they are in high demand at national and international level. The remuneration depends on the potential, experience, seniority and type of organisation. Generally private compared with the government and public organisation. In the field of geography, a qualified person can expect a starting salary somewhere around Rs. 15,000 - 25,000 per month. The senior persons in private sector may draw more than Rs.1,20, 000 per month. Consultants also get attractive consultancy fees. 6) Darafter: He/she associate closely with engineers and architectures. It involves planning, housing and development projects in terms of their location and utilization. 7) Government employer: Central government agencies employ geographers for mapping, intelligence work and remote sensing interpretation. State and local government employ ageorgaphers on planning and development toriate groups are often in need of experienced GIS professionals 10) Climatologist: Agencies viz. National Weather Service, news media, the Weather Channel and other government agencies and private groups are often in need of experienced GIS professionals 10) Climatologist: A geographer with experience and vast coursework in meteorology and climatology serves as the best climatologist. 11) Transportation manager: The reyional transit authorities or shipping, logistics and transportation		
 5) Geographers provide their services in diverse fields. There are comparatively few geographers so they are in high demand at national and international level. The remuneration depends on the potential, experience, seniority and type of organisation. Generally private compared with the government and public organisation. In the field of geography, a qualified person can expect a starting salary somewhere around Rs. 15,000 - 25,000 per month. The senior persons in private sector may draw more than Rs.1,20, 000 per month. Consultants also get attractive consultancy fees. 6) Drafter: He/she associate closely with engineers and architectures. It involves planning, housing and development projects in terms of their location and utilization. 7) Government employer: Central government agencies employ geographers for mapping, intelligence work and remote sensing interpretation. State and local governments employ geographers on planning and development commissions. 8) Urban and regional planner: Concerned with planning, housing and Development projects with respect to their location and utilization of available land-space. 9) GIS specialist: City governments, county agencies and other government agencies and private groups are often in need of experienced GIS professionals 10) Climatologist: Agencies viz. National Weather Service, news media, the Weather Channel and other government entities occasionally need climatologist. A geographer with experience and vast coursework in meteorology and climatology serves as the best climatologist. 11) Transportation manager: The regional transit authorities or shipping, logistics and transportation companies requires in transportation geography. 12) Environmental Manager: The environmental assessment, clean-up and management companies require ageographer for environmental impact reports. It's often a wide-open field with tremendous growth opportunities. 13) Science (Geography writer: One can serve as		certifications) as tour operators, itinerary planners, tour guides and so on. Also those with PhD or relevant master's can also opt to teach the subject at school, college or masters level or may be involved in developing educational content for the relevant subject. Indeed, it is correctly said that geography is everywhere and opens our eyes to the world we live in, and so for those curious souls who love to know more and explore about the earth, the road towards geography may lead you to your final destination! Get going
 being apires provide their softwes in einvices in each terms. Index and comparatively few geographers so they are in high demand at national and international level. The remuneration depends on the potential, experience, seniority and type of organisation. Generally private companies pay awesome wage along with other benefits, when compared with the government and public organisation. In the field of geography, a qualified person can expect a starting salary somewhere around Rs. 15,000 - 25,000 per month. The senior persons in private sector may draw more than Rs.1.20, 000 per month. Consultants also get attractive consultancy fees. c) Drafter: He/she associate closely with engineers and architectures. It involves planning, housing and development projects in terms of their location and utilization. 7) Government employer: Central government agencies employ geographers for mapping, intelligence work and remote sensing interpretation. State and local governments employ geographers on planning and development commissions. 8) Urban and regional planner: Concerned with planning, housing and Development projects with respect to their location and utilization of available land-space. 9) GIS specialist: City governments, county agencies and other government agencies and private groups are often in need of experienced GIS professionals 10) Climatologist: Agencies viz. National Weather Service, news media, the Weather Channel and other government entities occasionally need climatologist. A geographer with experience and vast coursework in meteorology and climatology serves as the best climatologist. 11) Transportation manager: The regional transit authorities or shipping, logistics and transportation companies requires in transportation geography. 12) Environmental Companies require a geographer for environmental impact reports. It's often a wide-open field with tremendous growth opportunities. 13) Science (Geography) writer: One can serve	5)	Coographers provide their services in diverse fields. There are
 get attractive consultancy fees. 6) Drafter: He'she associate closely with engineers and architectures. It involves planning, housing and development projects in terms of their location and utilization. 7) Government employer: Central government agencies employ geographers for mapping, intelligence work and remote sensing interpretation. State and local governments employ geographers on planning and development commissions. 8) Urban and regional planner: Concerned with planning, housing and Development projects with respect to their location and utilization of available land-space. 9) GIS specialist: City governments, county agencies and other government agencies and private groups are often in need of experienced GIS professionals 10) Climatologist: Agencies viz. National Weather Service, news media, the Weather Channel and other government entities occasionally need climatologist. A geographer with experience and vast coursework in meteorology and climatology serves as the best climatologist. 11) Transportation manager: The regional transit authorities or shipping, logistics and transportation companies requires in transportation geography. 12) Environmental Manager: The environmental assessment, clean-up and management companies require a geographer for environmental impact reports. It's often a wide-open field with tremendous growth opportunities. 13) Science (Geography) writer: One can serve as a science writer or a travel writer for a magazine or newspaper. 14) Researcher: Many Government and non-government institutes along 		comparatively few geographers so they are in high demand at national and international level. The remuneration depends on the potential, experience, seniority and type of organisation. Generally private companies pay awesome wage along with other benefits, when compared with the government and public organisation. In the field of geography, a qualified person can expect a starting salary somewhere around Rs. 15,000 - 25,000 per month. The senior persons in private sector may draw more than Rs.1,20, 000 per month. Consultants also
 6) Drafter: He/she associate closely with engineers and architectures. It involves planning, housing and development projects in terms of their location and utilization. 7) Government employer: Central government agencies employ geographers for mapping, intelligence work and remote sensing interpretation. State and local governments employ geographers on planning and development commissions. 8) Urban and regional planner: Concerned with planning, housing and Development projects with respect to their location and utilization of available land-space. 9) GIS specialist: City governments, county agencies and other government agencies and private groups are often in need of experienced GIS professionals 10) Climatologist: Agencies viz. National Weather Service, news media, the Weather Channel and other government entities occasionally need climatologist. A geographer with experience and vast coursework in meteorology and climatology serves as the best climatologist. 11) Transportation manager: The regional transit authorities or shipping, logistics and transportation companies requires in transportation geography. 12) Environmental Manager: The environmental assessment, clean-up and management companies require a geographer for environmental impact reports. It's often a wide-open field with tremendous growth opportunities. 13) Science (Geography) writer: One can serve as a science writer or a travel writer for a magazine or newspaper. 14) Researcher: Many Government and non-government institutes along 		get attractive consultancy fees.
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14) Researcher: Many Government and non-government institutes along		travel writer for a magazine or newspaper.
	14) Researcher: Many Government and non-government institutes along
with research centres offers several career options for qualified geographers with numerous specializations.		with research centres offers several career options for qualified geographers with numerous specializations.

15) Teacher/Professor: The college teachers, school teachers and
university teacher. Depending upon the experience and degrees obtained.
16) Demographer: In government and research organizations.
17) Government officer: Geographical Survey of India/State and Central
government provides job opportunities.
18) Careers in Indian Navy: The Indian Navy is the seventh largest in the
world and is a well knit, cohesive fighting force with tri dimensional
capabilities. The Indian Navy provides you all the training you need
and help you make the most of what you have your talents, your skills,
your spirit and your aspirations. You get very challenging job and get
chance to travel widely.

Semester-I

Gg. 111- Principles of	1) To acquaint the students with basic knowledge of Economic
Economic Geography	Activities.
	2) To know the fundamental concepts of economical sector and
	geographical factors.
Gg. 112 - Principles of	1) To acquaint the students with basic knowledge of Population
Population and Settlement	and its characteristics.
Geography	2) To acquaint the students with basic knowledge of Settlements
	and its characteristics.
	3) To know the fundamental concepts of Population/
	Demography/Settlements.
Gg. 113 - Principles Of	1) To acquaint the students with basic knowledge of atmosphere,
Climatology	weather and climate
	2) To know the fundamental concepts of climatology
	3) To understand various weather phenomena
	4) To identify climatic differentiation on the earth
	5) To acquire the knowledge of weather forecasting
Gg. 114: Principles of	1) To acquaint the students with basic knowledge of earth
Geomorphology	surface.
	2) To know the fundamental concepts of Geomorphology.
Gg. 115: Practical In	1) To introduce the students with basic knowledge of Practical
Geography	works related to geographical aspects.
	2) To know the importance of geographical knowledge with skill
	for better development.

Semester-II

Gg. 211: Geographical	1) To gain the geographical knowledge from the ancient to current
Thoughts	era.
	2) To introduce the Ancient Indian thoughts with comparative
	concepts in the world.
Gg. 212: Social and Cultural	1) To study the Social as well as Cultural situation in the different
Geography	parts in the world.
	2) To analyse the relationship between the geography and socio-
	cultural factors.
Gg. 213: Remote Sensing	1) To gain new knowledge with technical approach.
	2) To acquire the knowledge of Sattelites, their functions, systems
	and data capturing system.
Gg 214: Geo-Statistical	1) To provide the statistical skill & interprete them with geographical
Methods	locations.
Gg. 215: Practical of	1) To introduce the students with basic knowledge of Practical
Computerize Data Analysis	works related to geographical aspects.
Techniques In Geography	2) To know the importance of geographical knowledge with
	skill for better development

Semester-III

Gg. 311: (A) Regional Geography Of U. S. A.	 To discuss the geography of the United States as a field of regional study. To understand the major geographical regions of the United States. To illustrate Natural Resources, Agriculture and Transportation. To illustrate and define regions as a means of interpreting the complexity of the United States.
Gg. 312: Environmental Geography	 To understand components, interactions and nutrient cycles in the environment. To acquire a set of economic, aesthetic, social and cultural values for environment. To aware about the climatic change and degradation of environmental. To promote individuals and social groups to involve actively at all levels in environmental decision making.
Gg. 313: Geographical Information System	 To acquaint the students with the concepts of GIS. To acquire theoretical knowledge of tools and techniques of GIS. To develop and to qualify the students for practical usage of GIS. To develop the students for research and planning.

Gg. 314: Urban Geography	 To develop awareness among the students about the data sources and their application to understand and evaluate the spatial patterns and processes of urbanization. To encourage the students to study the urban morphology and urban functions with special reference to India. To understand the evolution of urban settlements with relevant theories and models. To study the fundamental concepts of urban settlement. To examine the contemporary urban issues and suggest remedial measures on them. To acquire the knowledge about the planned cities in India.
Gg. 315: Practical Of	1) To gain a basic and practical understanding of GIS concepts,
Physical Geography With	techniques.
The Help Of G.I.S	2) To enable students to perform basic GIS analysis.
	3) To introduce ILWIS and provide practical experience of a range of GIS functions.
	4) To learn utilization of ILWIS tools to perform analysis in Physical Geography.
	5) To know utilization of GIS in the context of business needs and IT strategies.
	6) Have ability to survey agricultural land, calculation of farm area and to convert in different units.

Semester-IV

Gg. 411: (C) Geography Of Rural Settlement	 To study the fundamental concepts of rural settlement. To understand and evaluate the spatial patterns of rural settlements. To study the rural morphology and rural functions with special reference to India. To understand the evolution of rural settlements with relevant theories and models. To examine the contemporary rural issues and suggest remedial measures on them.
Gg. 412: (C) Urban Geography	 To understand and evaluate the spatial patterns and processes of urbanization. To study the urban morphology and urban functions with special reference to India. To understand the evolution of urban settlements with relevant theories and models. To study the fundamental concepts of urban settlement. To examine the contemporary urban issues and suggest remedial measures on them. To acquire the knowledge about the planned cities in India.

Gg. 413 (A) Research Methodology	 To create an awareness about research in the field. To make a scientific view about the geographical phenomenon. To develop the research ability and get solution on various problems.
Gg. 414: Watershed Management & Planning	 This course is introduced to prepare the students for better planning of watershed. Watershed planning and management is easy and authentic with the help of GIS and Remote Sensing techniques. To develop the PG students for research and planning, this course is introduced. Number of job opportunities are available for the students of geography in the field of GIS, RS and watershed planning department.
Gg. 415: Practicals Of Topographical Maps, Aerial Photographs, Satellite Imageries & Surveying	 To introduce the students with basic knowledge of topographical maps, aerial photographs and satellite imageries. To know the importance and techniques of interpretation of topographical maps, aerial photographs and satellite imageries. To identify and study the relationship existed between various natural and cultural features depicted in the maps, photographs and imageries. To introduce the students with basic principles of GPS and it's functioning. To give practical knowledge about survey using GPS receiver. To prepare the survey layout using post-processing software.

Department of History

UNDER GRADUATE (UG)

Department of	After successful completion of three year degree program in (B.A.
Electronics	<u>HISTORY</u>) a student should be able to;
Programme	• Understand basic concept of History.
Outcomes	• Understand to the student aware of the application of the various
	concept in History.
	• To write study tour report.
	• Increasing student interest in History subject.
	• Contemplate the concept of History.
	• Studying human values among students from various legend in
	History.
	• To stimulate patriotism, nationalism and patriotism among the
	students through the subjects of History.
Programs	• The syllabus provides chronological sequence of the "units" of the
Specific Outcome	subject matter with proper placement of topic with their linkage for
	better understanding.
	• Develop an interest in student to study the history as discipline.
	• For making learning of history more relevant, meaningful and interesting.
	• Develop positive attitude and appreciate contribution of freedom fighters towards the independents of India
	• The syllabus provides chronological sequence of the "units" of the
	• The synabus provides chronological sequence of the units of the subject matter with proper placement of topic with their linkage for
	better understanding.
	• Develop an interest in student to study the history as discipline.
	• For making learning of history more relevant, meaningful and
	interesting.

<u>Course Outcomes</u> <u>Semester-I &II (F Y B A HISTORY)</u>

After completion of these courses students should be able to;		
Course	Outcomes	
HIS- History of India	 To introduce various perspectives of the Indian Freedom Movement. To develop the spirit of nationalism among students. To bring an awareness among the students as responsible citizen of the country. To inculcate Liberty, Equality, and Fraternity among the students. 	

Semester-III & IV (SY BA. HISTORY)

After completion of these courses students should be able to;		
Course	Outcomes	
HIS-Hstory of Maratha	 To create and enhance interest about regional History among the students. To acknowledge students how SHIVAJI MAHARAJ created the empire inadverse circumstance. To motive students for the research work of the Maratha History. Useful for the preparation of the competitive examination. To able to understand the leadership and its characteristics. 	

Semester-V &VI (TY BA. HISTORY)

After completion of these courses students should be able to;		
Course	Outcomes	
HIS- History of Modern Europe	 Career and job oriented syllabus (MPSC,UPSC,NET,SET, RailwayBoard and staff selection). To develop the skill and opportunities among the students. Job oriented syllabus newly introduce i.e.archive in india and tourism business etc. To make awareness about word History. To make awareness abaut resaech. Syllabus related to tour and excursion,visit and report writing. 	

Department of Political Science

Programme Outcomes: B.A. Political Science

Department of	After successful completion of three year degree program in Political
Geography	Science student should be able to;
Programme	• Students enable to develop and be able to demonstrate skills in
Outcomes	conducting as well as presenting research in political science.
	• Students enable to analyze political and policy problems and formulate policy options.
	• Students enable to develop academic proficiency in the subfields of Indian Government and Politics, Comparative Government, International Relations, Public Administration, Political Theory and
	Political Ideology.
	• Students enable to discuss the major theories and concepts of political science and its subfields, and also deliver thoughtful and well-articulated presentations of research.
Programme	• Can Prepare for Competitive exams.
Specific Outcome	• Can admit to MA Politics, LLB and MBA etc.
	• Work as a teacher in colleges, Jr. Colleges, high schools & schools.
	• Serve as political party member, political adviser, and well citizen of India.

Course Outcomes F.Y.B.A. Political Science

After completion of	After completion of these courses students should be able to;		
Course	Outcomes		
DSC - A - I Indian	1) Students enable to explain the Constitutional process.		
Constitution	2) Students enable to understand the process, concept and working of		
	Indian constitution.		
	3) Students enable to understand the Making Process, Preamble, Salient		
	features of Indian Constitution.		
	4) Students enable to understand the Constitutional Bodies and		
	Amendment Process.		
DSC - A - II	1) Students enable to explain the Government of Union and State.		
Indian	2) Students enable to understand Judiciary and Constitutional		
Government	Commission.		
	3) Students enable to understand the Composition, Powers and Functions,		
	Law making process of Union and State's Legislature.		
	4) Students enable to understand the Comptroller and Auditor General,		
	Lokpal, Lokayukta, Election Commission of India.		
	5) Students enable to understand the Centre-State Relation and Civil		
	Services .		

Semester – III

After completion of these courses students should be able to;	
Course	Outcomes
DSE – 1A Reading	1) Students enable to understanding the Mahatma Gandhi's Truth,
Mahatma Gandhi	Non Violence, Satyagrah, Trusteeship and Hind Swaraj and
	Nationalism.
	2) Students enable to understand the Theory of State and Religion.
	3) Students enable to understand the Thought of Gandhiji Regarding
	Social Welfare.
	4) Students enable to understand the Gandhiji's View's on Health
	Cleanliness.
	5) Students enable to understand the Gandhi's View's on Farmer,
	Worker, Tribal Community and Minorities.
DSE – 2A Government	1) Students enable to understand the Historical Background of
and Politics of America	$\begin{array}{c} \text{America.} \\ \textbf{O} Stable transformed by the formula of the formula of$
	2) Students enable to understand the Silent features of American
	Constitution and Amendment.
	5) Students enable to understand the Government and Administration
	01 America (1) Students enable to understand the Political Parties and Party
	4) Students enable to understand the Political Parties and Party system of America
	system of America.
DSC – 1C Introduction	1) Students enable to understand the Historical Geographical
to Administration of	Socio-Economical and Political Background of Maharashtra.
Maharashtra	2) Students enable to understand the Role of State Secretariat
	(Mantralaya).
	3) Students enable to understand the District Administration.
	4) Students enable to understand the Administration of Maharashtra-
	Silent Features.
SEC-1 Introduction of	
Research Methodology	1) Students enable to understand the Meaning, Definition, Objective
in Political Science	& Significance of Research Methodology.
	2) Students enable to understand Steps in Research Methodology.
	3) Students enable to understand the Report writing in Research
	Methodology.
	2) 4) Students enable to understand Data Collection, Sampling
	Method.

Semester – IV

After completion of these courses students should be able to;		
Course	Outcomes	
DSE – 1B Reading Dr.	1) Students enable to understand the Social Thoughts on Equality,	
Ambedkar	Fundamental Rights, Social Justice and Reservation.	
	2) Students enable to understand the Political & Religion Thought.	
	3) Students enable to understand the Thought on Education.	
	4) Students enable to understand the Dr. Ambedkar's Views on	
	Political Parties, Freedom of Press.	
	5) Students enable to understand the Dr. Ambedkar's Views on	
	Labour Organization.	
DSE – 2B Government	1) Students enable to understand the Historical Background of	
and Politics of China	China.	
	2) Students enable to understand the Silent features of Chinas	
	Constitution and Amendment Process.	
	3) Students enable to understand the Government and	
	Administration of China.	
	4) Students enable to understand the Political Parties and Party System of China	
	System of China.	
DSC – 1D Introduction		
to Local and District	1) Students enable to understand the Rural and Urban	
Administration of	Administration in Maharashtra	
Maharashtra	2) Students enable to understand the Position. Role and Function of	
	District Police Superintendent (SP).	
	3) Students enable to understand the Constitutional and Legal	
	Board of Maharashtra (Structure and Functions).	
	4) Students enable to understand the Minorities Development	
	Board of Maharashtra.	
SEC – 2 Election	1) Students enable to understand the Meaning and Definition of	
Management	Election Management.	
_	2) Students enable to understand Election Process and Campaign.	
	3) Students enable to understand the Election Methods and Political	
	Participation.	
	4) Students enable to understand Voter Registration System.	

Semester – V

After completion of the	ese courses students should be able to;
Course	Outcomes
TYBA (DSC-1 E)	1) Students enable to explain the Dadabhai Naoroji's Thought of
Indian Political	Economic, Eco- drain and Moral Exploitation Theory.
Thinker Part - I	2) Students enable to understand the Lokmanya Tilak's Political Thought,
	Chatusutri and Views on Social Reform.
	3) Students enable to describe the Role of Indian Freedom Movement.
	4) Students enable to understand the Mahatma Gandhi's Thoghts on Truth,
	Non Violence, Satyagrah and Trust ship concept etc.
TYBA (DSE-3A)	1) Students enable to explain the Aristotle's Theory of State.
Western Political	2) Students enable to understand the Aristotle's Concept of Citizenship.
Thinker Part – I	3) Students enable to understand the Machiavelli's Thought of Human
	Nature and Advice to King and views on Means and End.
	4) Students enable to understand the Rousseau's Social Contract theory
	and its Importance.
	5) Students enable to understand the Views on Responsible Government,
	People's Sovereignty.
TYBA (DSE-4 A)	1) Students enable to explain the Political Sociology & Political System.
Political Sociology	2) Students enable to understand the Political Culture & Political
Part – I	Socialization.
	3) Students enable to describe the features and Role Political Participation
	and Political Leadership.
IYBA SEC- 3	1) Students enable to understand the Freedom of Press and Constitutions
Journansm and Maga	and Awareness and Socialization of Press.
Communication	2) Students enable to understand the infroduction to Mass
Communication	3) Students enable to describe the Nature and Process of Mass
	Communication
	4) Students enable to understand Criticism of Journalism and Mass
	Communication
	5) Students enable to describe the Roles and Responsibilities of Journalism
	and Mass Communication.
TYBA (GE 1A) :	1) Students enable to understand the Historical Background and
Indian Civil Services	Development of Civil services Characteristics of Civil Services and
	Function and Role of civil Services.
	2) Students enable to understand the Recruitment, Training and
	Promotion.
	3) Students enable to describe the features of Union and State Public
	Services.
	4) Students enable to understand Role and Importance of System of
	Recruitment in India.
	5) Students enable to understand the Retirement, Purpose, Kinds and
	Benefits.

Semester – VI

After completion of th	nese	courses students should be able to;
Course	Οι	itcomes
TYBA (DSC-1 E)	1)	Students enable to understanding the core of administration and enhance
Indian Political		ability to get proper knowledge of rural –Urban administration.
Thinker Part - II	2)	Students enable to understand the Gram Panchayat, Panchayat Samiti and
		Zilla Parishad in Maharashtra.
	3)	Students enable to understand the features of Municipalty, Muncipal
		Corporation and Other Urban Local Administration.
	4)	Students enable to understand Role of Law and Order.
	5)	Students enable to describe the Constitutional and Legal Board of
		Maharashtra (Structure and Functions).
TYBA (DSE-3A)	1)	Students enable to understand the John Stuart Mill's Views on Liberty and
Western Political		Views on Women Liberty.
Thinker Part – II	2)	Students enable to understand the Karl Marks's Theory of Class Conflict
	-	and Surplus value and Views on state or Classless and Stateless Society.
	3)	Students enable to describe the features of Karl Marks's Revolution Theory.
	4)	Students enable to understand the Thought on Harold Laski's Pluralistic
		Theory of Sovereignty, Theory of Rights, Views on Liberty and Views on
		Equality and Law.
TYBA (DSE-4 A)	1)	Students enable to explain the Silent features of Political Development and
Political Sociology	-	Modernization.
Part – II	2)	Students enable to understand the Political Communication and Public
		Opinion.
	3)	Students enable to describe the features and Role of Political Influence and
		Political Legitimacy.
	4)	Students enable to understand the Meaning, Definition and Importance of
		Political Influence, Political Legitimacy.
TYBA (SEC- 4)	1)	Students enable to understand the Meaning, Definition, Nature, Scope &
Political		Significance of Political Journalism.
Journalism	2)	Students enable to understand Methods of Political Journalism.
	3)	Students enable to describe the features of Influence of Media on Decision
		Making Process.
	4)	Students enable to understand Role of Media in Leadership Development.
	5)	Students enable to understand Challenges before Political Journalism and
		Media.
TYBA (GE 1 B) :	1)	Students enable to understand the Meaning and Definition, Silent Features
Management and		of Good Governance.
Good Governance	2)	Students enable to understand Meaning, Definition and Types of
		Management and Characteristic of Management
	3)	Students enable to describe the features of Functions of Management,
		POSDCORB and Test of Good Management and Importance
	4)	Students enable to understand Administrative Leadership.
	5)	Students enable to understand Functions of Administrative Leadership.

Programme Outcomes & Programme Specific Outcome: M.A. Political Science

After successful completion of two year degree program in M.A.II (POLITICAL SCIENCE)		
a student should be able to;		
Programme Outcomes	 Post Graduate Course in Political Science seeks to offer students advance knowledge of political concepts and practices in a manner that enables students to relate them to the contemporary local, national and international event. Knowledge of some of the philosophical understanding of modern politics and government and the legal principles by which political disputes are often settled. Understanding of government institutions, electoral processes, and policies in a variety of countries around the world and the ability to compare the effectiveness or impact of differing political arrangements across countries. 	
Programme Specific	1) Competitive Examinations: It is learn that in the NET/SET,	
Outcome	MPSC/UPSC and other competitive examinations.	
	2) Public Administrator: As a Public Administrator, MA Political	
	Science graduates can utilize their knowledge to inform policy	
	decisions and administer those decisions effectively.	
	3) Consultant: A political consultant is a professional who helps an	
	organization make politically informed choices. Their knowledge	
	about political philosophy comes in handy in such roles.	

Semester – I

After completion of these courses students should be able to;		
Course	Outcomes	
POL-111- India's Foreign	1) Students enable to understand the Meaning and Major	
Affairs	Approaches to the study of Foreign policy.	
	2) Students enable to understand the Domestic Determinants.	
	3) Students enable to understand the External determinants:	
	Global, Regional etc.	
	4) Students enable to understand the Indian Foreign Policy (up to	
	1990).	
	5) Students enable to understand the Indians Recent affairs (After	
	-1990).	
POL- 112- Global	1) Students enable to understand the Factors leading to the end of	
Political Issues.	cold war.	
	2) Students enable to understand the Post-Cold War Issues.	
	3) Students enable to understand the Contemporary issues in post	
	cold war period.	
	4) Students enable to understand the Challenges before New	
	World Order.	

POL- 113- Political	1) Students enable to understand the Theoretical framework for
Process in Indian	the study of State Political process.
Federation	2) Students enable to understand the Centre-State Legal and
	Administrative Relations.
	3) Students enable to understand the Centre- State Political
	Relations.
	4) 4) Students enable to understand the Social Determinants of
	State Politics.
POL- 114- A- Public	1) Students enable to understand the Nature and Scope of Public
Administration	Administration.
	2) Students enable to understand the Principles of Organization
	3) Students enable to understand the Structure of Organization.
	4) Students enable to understand the Personnel Administration.

Semester – II

Semester – III

After completion of these courses students should be able to;					
Course	Outcomes				
POL – 231 Socio -	1)	Student knows how to introduce the key issues and details Socio –			
Political Research		Political Research Methods.			
Methods	2)	Students enable to understand and analyze Socio - Political			
		Research Methods.			
	3)	Student understands the expansive meaning of Socio - Political			
		Research Methods.			
	4)	Student understands the Definition, Characteristics, Objectives,			
		Types and Importance of Literature Review of Socio - Political			
		Research Methods.			
POL – 232	1)	Student knows how to introduce the key issues and details of the			
Comparative Political		Emergence and Development of Comparative Politics.			
Processes	2)	Students enable to understand and analyze Comparative Political			
		Process.			
	3)	Student understands the expansive meaning of Comparative Political			
		Process as it shapes in the arena of world politics, in the form of mass			
		mobilizations and as politics of interests.			
	4)	Students enable to understand and analyze Political Party & Pressure			
		Groups.			
POL 233 International	1)	Students enable to introduces the evolution and important of various			
Relations		theories.			
	2)	Students know a brief history of international politics.			
	3)	They understanding what are happening in the world and the levels			
		of analysis. Competing theories are presented.			
	4)	Student enables to understand the Meaning, nature, Importance,			
		International Relations and International Politics.			
POL 234(B) UN and	1)	Students enable to apply the theories and used to illustrate how each			
Regional		level of analysis the international system, the state, and the			
Organizations		individual- to help in organizing and conceptualizing the issues.			
	2)	Student enables to understand the major issues of the twenty first			
		century- security, economics and transnational issues are presented			
		and analyzed.			
	3)	Students enable to introduce the New World Order and Emergence			
		of Regional Organization.			
	4)	Students know a brief history of international politics.			

Semester – IV

After completion of these courses students should be able to;			
Course	Outcomes		
POL – 231 Socio - Political	1) Student knows how to introduce the key issues and details Socio –		
Research Methods	Political Research Methods.		
	2) Students enable to understand Socio – Political Research Methods.		
	3) Student understands the expansive meaning of Socio – Political		
	Research Methods.		
POL – 232 Comparative	1) Student knows how to introduce the key issues and details of the		
Political Processes	Emergence and Development of Comparative Politics.		
	2) Students enable to understand and analyze Comparative Political		
	Process.		
	3) Students enable to understand and analyze Political Party &		
	Pressure Groups.		
POL 233 International	1) Students know a brief history of international politics.		
Relations	2) They understanding what are happening in the world and the levels		
	of analysis. Competing theories are presented.		
	3) Student enables to understand the significance of the International		
	Relations.		
POL 234 (B) UN and	1) Student enables to understand the major issues of the twenty first		
Regional Organizations	century- security, economics and transnational issues are presented		
	and analyzed.		
	2) Students enable to introduce the New World Order and Emergence		
	of Regional Organization.		
	3) Students know a brief history of international politics.		

Department of Psycology

After successful completion of three-year degree program in (B.A. Psychology) a student		
should be able to;		
Programme Outcomes	1) To create interest in the subject of Psychology.	
	2) To impart knowledge of the basic concepts and modern trends is	
	Psychology.	
	3) To make the students aware of the applications of psychological	
	concepts in various fields.	
	4) To Develop the students' capability for connecting discipline	
	content to personal values and behavior.	
	5) To develop cognitive and emotive skills in the students and to	
	develop behavior and interpersonal skills.	
	6) The help students think critically about the new information that	
	they have learned and relate it to their own life.	
	7) Provide an understanding of the explain issues underlying	
	lifespan development.	
	8) To develop the skills of positive interpersonal communication.	
	9) To impart an understanding of the various domains of human	
	relationships and process adjustment.	
	10) To develop the good decision making to career choice.	
	11) To equip the learner with an understanding of the concept and	
	process of numan development across the life span.	
	12) To impart an understanding of the various domains of human	
	development.	
	13) To create interest in the subject of Psychology.	
Programs Specific	1) Awareness of self-development.	
Outcome	2) I mink scientifically about suffounding numan benavior.	
	 4) To write study tour report 	
	 4) To write study tour report 5) Understand to relate the fundamental principles of Psychology in 	
	s) Onderstand to relate the fundamental principles of F sychology in everyday life	
	6) Understand to the students aware of the application of the various	
	concepts in social Psychology	
	7) Able to understand basic concepts of Psychology	
	8) Understand the impact of environment society heredity on	
	persons Behavior.	
	9) Understand the human social behavior.	

<u>Course Outcomes</u> <u>Semester-I (FYBA Psychology)</u>

After completion of these courses' students should be able to			
Course	Outcomes		
Psy – 101: Foundations of	1) To able to understand basic principles of Psychology.		
Psychology	2) To able to understand historical trends of Psychology		
	3) To able to understand Major concepts, different perspectives of Psychology.		
	4) To able to understand an overview of the applications of Psychology.		
	5) To able to understand Career opportunities in Psychology.6) To understand Roll of Biological base in human behavior.		

Semester-II (FYBA Psychology)

After completion of these courses' students should be able to				
Course	Outcomes			
Psy – 201 Introduction to social	1) To understand Emotion, Motivation and Sensory			
Psychology	Processes.			
	2) To Learn applications of various techniques of			
	Psychology.			
	3) To able to understand the basics of social Psychology			
	and understand the individual in the social world.			
	4) To able to the students aware of the application of			
	the various concepts in social Psychology in the			
	Indian context.			

Semester-III (SYBA Psychology)

After completion of these courses' students should be able to;					
Course				Outco	omes
PSY	-231	Human	Developmental	1)	Understand to the student's concept of human
Psych	ology-	Early Life			development
				2)	Understand to the students process of human
					development
				3)	Understand to the students designs for studying
					development.
				4)	Understand to the student's Prenatal development.
				5)	Student help to understand childhood deployment.

Semester-IV (SYBA Psychology)

After completion of these courses' students should be able to;			
Course		Outcomes	
PSY -241:	Human	1) Understand to the student's concept of adolescence.	
Developmental Psy	chology-	2) Student help to understand self-cognitive development.	
Later Life		3) Understand to the student's concept of Early Adulthood.	
		4) Understand to the student's vocational choice.	
		5) Understand to the student's family life cycle	

Semester-V (TYBA Psychology)

After completion of these courses' students should be able to		
Course	Outcomes	
PSY -351: Management of	1) Understand to the student's concept of the process of interpersonal	
Interpersonal Relations	communications.	
	2) Understand to the student's communications skills & technology	
	3) Student's developing an assertive communications style.	
	4) Understand to the student's concept of Friendship love Marriage	
	and intimate relationship.	
	5) Understand to the student's concept of the career and work.	
	6) Understand to the student's concept of the process of interpersonal communications.	
	7) Understand to the student's putting together A Resume, finding companies you want to work, landing and interview polishing your interview technique.	
	8) Understand to the students between the difference of Career and	
	work	

Semester-VI (TYBA Psychology)

After completion of these courses' students should be able to						
Course				Outcomes		
PSY	-361:	Adjustment	in life	1) Understand to the student's concept of the self		
span				2) Understand to the student's basic principles of self – perception.		
				3) Understand to the student's self-regulation, self-Efficacy, and self-defeating behavior.		
				4) Understand to the student's concept of stress its effects.		
				5) Understand to the student's concept of coping process.		

Department of Physics

Under Graduate (UG)

After successful con	npletion of three year degree program in (<u>B.Sc. PHYSICS</u>) a student should
be able to;	
Programme	1) Demonstrate and think in depth to understand the minor and major concepts
Outcomes	in scientific and technological aspects in all disciplines of physics.
	2) Enrich the knowledge through problem solving and also think methodically
	to draw a logical conclusion.
	3) Develop analytical abilities towards real world problems and create an
	awareness of the impact of Physics on the society.
	4) Develop awareness to use modern techniques, decent equipment's, and also
	the scientific knowledge to design, record and analyze the results of Physics
	experiments.
Programs	1) To have the knowledge of Physics through theory and practical's as well as
Specific Outcome	knowledge of basic concepts of Physics in depth.
	2) To solve the problems in real life situations by applying various laws of
	Physics.
	3) To understand good laboratory practices and safety which can be useful in
	higher studies in Physics as well as other than Physics also.
	4) To develop the research oriented skills to handle the sophisticated
	instruments /equipment's.

Course Outcomes

<u>Semester-1 (FY BSc. PHYSICS)</u>			
After completion of these courses students should be able to;			
Course	Outcomes		
PHY-101: Basic	1) Apply the linear and angular momentum, conservation laws of		
Mechanics	energy to solve problems		
	2) Apply the concept of use of knowledge of mechanics to real life problems.		
	3) Understanding of the course will create scientific temperament		
	4) The students would learn about the behaviour of physical bodies		
	it provides the basic concepts related to the motion of all the		
	objects around us in our daily life.		
	5) The velocity and acceleration parameter give the knowledge		
	about how the vehicles Move.		
PHY-102: Dynamics and	1) Study the behaviour of rigid body dynamics		
Elasticity	2) To make the students to understand the dynamics involved in a		
	rigid body.		
	3) Learn how Young's modulus and rigidity modulus are defines and		
	how they are evaluated for different shapes of practical relevance		

Semester-II (FY BSc. PHYSICS)

After completion of these courses students should be able to;		
Course	Outcomes	
PHY-201: Electricity	1) Gain knowledge of Gauss laws and solve the electric field for various	
and Electrostatics	geometric objects	
	2) To understand the basic concepts of Electric field and Electric	
	Potential.	
PHY-202:	1) Enable to understand the concept of magnetic field.	
Dielectrics,	2) Understand the faradays laws of electromagnetic induction	
Magnetism And	3) Enable to familiarize with the laws of electromagnetic induction	
Electromagnetism	4) Thorough knowledge in the basic concept of electromagnetic induction	
	5) Able to derive the Maxwell [*] 's equation in free space and material media	

Semester-III (SY BSc. PHYSICS)

After completion of these courses students should be able to;			
Course	Outcomes		
PHY-301:	1) Understand the concept of thermodynamics and there laws.		
Thermodynamics and	2) Understand the Heat Engine and there uses		
Kinetic theory of	3) Describe the thermodynamic function and there relations		
gases	4) To study Maxwell Relations and Application.		
PHY-302 (A):	1) Understand he basics of diode and working of rectifier circuits and		
Electronics –I	characteristics		
	2) Analyse the characteristics of transistor and transistor biasing circuits		
	3) Understand the basic knowledge of semiconductor physics		
	4) Learn how to construct a transistor amplifier and how its gain varies		
	with frequency		
	5) Understand the fundamentals of codes and number system		
	6) Understand the binary arithmetic , logics and boolean functions		
PHY-302 (B):	1) General Block diagram & Measurements of instrumentation		
Instrumentation	2) To Study transducers strain gauge, thermistor, magneto resistive		
	sensor		
	3) Apply the concept of use of knowledge of Instrumentation to real life		
	problems		
PHY 304: Skill	1) Know the need of renewable energy resources, historical and latest		
Enhancement Course	developments		
	2) Describe the use of solar energy and the various components used in		
	the energy production with respect to applications like - heating,		
	cooling, desalination, power generation, drying, cooking etc.		
	3) Appreciate the need of Wind Energy and the various components used		
	in energy generation and know the classifications.		
	4) Understand the concept of Biomass energy resources		

Semester-IV (SY BSc. PHYSICS)

After completion of	these courses students should be able to;
Course	Outcomes
PHY 401: Waves, Oscillations and Acoustics	 Apply the concept of use of knowledge of Waves and Sound to real life problems Familiarise with general terms in acoustics like intensity, loudness, reverberation etc, and study in detail about production, detection, properties and uses of ultrasonic waves Analyse waves and oscillations
PHY 402: Optics and LASERS	 Understand the natural behaviour of aberration in lens Study the theory and experiment of interference using air wedge, newtons rings etc. Study the theory of diffraction by fresnels and fraunhoffer methods Study the theories for production of polarization of light Explain different Laser used and make a comparison between them. Apply the gained basic knowledge of laser and working of different type of lasers
PHY 404: Electrical Circuits and Network Skills	 After the completion of the course the student will acquire necessary skills/ hands on experience /working knowledge on multimeters, voltmeters, ammeters, electric circuit elements, dc power sources, ac/dc generators, inductors, capacitors, transformers, single phase and three phase motors, interfacing dc/ac motors to control and measure, relays and basics of electrical wiring. Study circuits in a systematic manner suitable for analysis and design. Analyze the electric circuit using network theorems.

Semester-V (TY BSc. PHYSICS)

After completion of these courses students should be able to;			
Course	Outcomes		
PHY-501:	1)	Apply the concept and knowledge of Mathematical physics to	
Mathematical Physics		understand and solve real life problems	
	2)	To understand Gauss divergence theorem, Stoke's theorem,	
	ŕ	Green's 1st and 2nd theorem	
	3)	Know the Cartesian, spherical polar and cylindrical co-ordinate	
		systems.	
	4)	Study the singular points of Legendre, Hermite differential	
		equation and Funche's theorem	
	5)	Study the Generating functions for Legendre Polynomial Pn(x),	
		Hermite polynomial Hn(x), and Bessel functions of first kind	
	6)	To understand the Special Theory of Relativity	
PHY-502: Solid State	1)	To study the different crystal structures and their properties.	
Physics	2)	To understand the Cohesive energy and Bonding in solids	
	3)	To understand the principles and techniques of X-rays diffraction	
	4)	To study the thermal properties of solids.	
	5)	To understand the free electron theory of metals and Band theory	
		of solids	
PHY-503: Atomic and	1)	To understand the physical interpretation of quantum numbers,	
Molecular physics		electron spin and Pauli's exclusion principle.	
	2)	To study the L-S & j-j coupling schemes	
	3)	Study the Zeeman Effect and Paschen Back effect	
	4)	To study the Moseley's law.	
	5)	To study the Raman spectra	
PHY-504 (B):	1)	Apply the concept and use of knowledge of Instrumentation to	
Instrumentation-II		understand and to solve real life problems.	
	2)	To understand the Analog and Digital types instruments	
	3)	Study of Analog and digital transducers	
	4)	To know the AC Bridges	
	5)	To study the Digital to Analog and Analog to Digital converters	
	6)	To study the Display Devices and Recorders	
PHY 505: Solar energy	1)	Apply the concept of use of knowledge of energy resources, solar	
and applications		radiations and conversion to real life problem.	
	2)	Understanding of the course will create scientific temperament.	
	3)	To impart knowledge of basic concepts of solar cell	
		fundamentals.	
	4)	To provide the knowledge and methodology of conversion of	
		solar energy into electricity.	
PHY 506(D):	1)	Study the microcomputer architecture and operations	
Microprocessor-I	2)	To understand the Microprocessor Architecture and function of	
	-	each block.	
	3)	To Study the addressing mode for 8085	
	4)	To understand the Code conversion programmes	

Semester-VI (TY BSc. PHYSICS)

After completion of these courses students should be able to;		
Course Outcomes		
PHY 601: Quantum	1) Formulation of Schrödinger equation-time dependent and time	
Mechanics	2) To understand the Applications and 1-D problems of	
	Schrödinger's equation	
	3) To study the Solutions of Hydrogen atom	
	4) To understand the Commutation and commutative algebra of operators	
PHV 602: Material	1) To gain the knowledge of classification of materials	
Science	2) To study the Organic Materials and polymers	
Science	3) To study the mechanical, electrical, magnetic and thermal	
	properties of materials	
	4) To understand the Dislocations and Plastic Deformation	
	5) To study the phase diagrams like Unary Phase diagram, Binar	
	Phase Diagram	
PHY 603: Nuclear	1) Know the properties of nucleus and understanding of	
Physics	elementary particles	
	2) To understand the concept of radioactivity and decays law	
	3) To study the Nuclear Models and its achievements, limitations	
	etc.	
	 4) To study the theories of nuclear reactions 5) To understand the nuclear reactors like swimming need 	
	5) To understand the nuclear reactors like swimming poor	
	6) To gain the knowledge of Nuclear Detectors and Accelerators	
PHY 604: Modern and	1) Apply the concept and use of knowledge of Modern and	
Applied Physics	Applied Physics to understand and solve the real life problems	
PP	2) Apply the knowledge and methodology for solving problems	
	in Physics	
	3) Students would know about the basic principles in th	
	development of modern physics.	
PHY 605: Basic	1) Handle and use various basic mechanical and electrical	
Instrumentation Skills	measuring instruments	
	2) Understanding of the course will create scientific	
	temperament.	
	3) To study the Digital to Analog and Analog to Digital	
	(1) To study the Display Davisas and Pacarders	
PHV 606(D).	 1) To know the Interfacing with PAMS & POMS 	
Microprocessor- II	2) To understand the Pin diagram of Intel 8255	
111110p1000301-11	a) To study the Architecture of Intel-8251	
	4) To understand the Operations of MODE 0 MODE 1 MODE	
	2, MODE3, MODE 4 and MODE 5	

Post Graduate (PG)

Sr. No.	Programme Outcomes (POs)	Program Specific Outcomes (PSOs)	
1	1) To promote a culture of research and produce quality human resource in the field of Physics.	 Students got a professional learning experience through vigorous work that is deliberated with the application of daily life phenomenon. 	
	2) To teach students a solid foundation of physical, mathematical, and relevant scientific as well as technological knowledge	2) They shared their knowledge by contributing to the local industry society and also be able to integrate in to the international research activities.	
	3) To developing the intellectual skills essential for prosperity and success in their careers.	3) They realized a sense of professional responsibility and carrying out such responsibility in line with utmost standards of professional ethics. (developing honesty,	
	4) To encourage a culture of research in students and inspire them towards a career of innovation	fairness and dedication during their research work)	
	 5) To enhance research capabilities by doing a comprehensive literature survey and reading 	 They are able to analyze problems based on physics as well as mathematical principles by utilizing their skills and physics tools. 	
	advanced texts.	5) They are able to use theoretical knowledge to implement practical solutions	

Semester-I (M.Sc. PHYSICS)

After completion of these courses students should be able to;		
Course	Outcomes	
PHY 101: Mathematical Methods for	1) The students will be able to understand and apply the	
Physics	mathematical skills to solve quantitative problems in	
	the study of physics.	
	2) Students will understand the applications of vector	
	space, matrix algebra and special functions.	
	3) Demonstrate a detailed physical and mathematical	
	understanding of a variety of systems and processes	
	in a range of advanced topics in physics	

	4) Demonstrate specialised analytical skills and
	techniques necessary to carry out advanced
	calculations in a range of advanced topics in physics.
	5) Approach and solve new problems in a range of
	advanced topics in physics.
PHY 102: Classical Mechanics	1) The students will be able to apply the Variational
	principles to real physical problems
	2) Define and understand basic mechanical concepts
	related to advanced problems involving the dynamic
	motion of classical mechanical systems.
	3) Describe and understand the motion of a mechanical
	system using Lagrange, Hamilton formalism.
	4) Describe and understand the motion of the forces in
	non inertial systems.
PHY 103: Quantum Mechanics	1) The students will be able t0 grasp the concepts of
	spin and angular momentum, as well as their
	quantization and addition rules.
	2) Understand historical aspects of development of
	quantum mechanics.
	3) Understand and explain the differences between
	classical and quantum mechanics.
PHY 104: Solid State Physics	1) To provide extended knowledge of principles and
	techniques of solid state physics
	2) To provide an understanding of structure, thermal
	and electrical properties of matter
	3) Students have a basic knowledge of crystal systems
	and spatial symmetries.
	4) know the fundamentals of dielectric and ferroelectric
	properties of materials
	5) Students be able to explain superconductivity using
	BCS theory

Semester-II (M.Sc. PHYSICS)

After completion of these courses students should be able to;		
Course	Outcomes	
PHY 201: Statistical Mechanics	1) Students have understood the concept of phase	
	space and its volume.	
	2) They can easily distinguish between different	
	types of particles and statistics and can easily	
	distribute bosons, fermions and classical particles	
	among energy levels.	
	3) After studying Fermi Dirac statistics, students	
	have learnt to deal with much electron system	

	•	
	4)	The students will be able to work out equations of
		state and thermodynamic potentials for elementary
		systems of particles
PHY 202: Classical Electrodynamics	1)	Describe the nature of electromagnetic wave and
		its propagation through different media and
		interfaces involved in different situations.
	2)	Simplify charged particle dynamics and radiation
		from localized time varying electromagnetic
		sources.
	3)	To evaluate fields and forces in Electrodynamics
		and Magneto dynamics using basic scientific
		method.
	4)	To provide concepts of relativistic
		electrodynamics and its applications in branches of
		Physical Sciences.
PHY 203: Material Science	1)	Interpret the phase diagrams of single component,
		multi-component systems
	2)	Select appropriate type of material for specific
		properties/application.
PHY 204 (A) : Physics of	1)	Students will be able to describe the behavior of
Semiconductor Devices		semiconductor materials
	2)	Students will be able to reproduce the I-V
		characteristics of diode/BJT/MOSFET devices
	3)	Students will be able to apply standard device
		models to explain/calculate critical internal
		parameters of semiconductor devices
	4)	Students will be able to explain the behavior and
		characteristics of power devices such as SCR/UJT
		etc.

Semester-III (M.Sc. PHYSICS)

After completion of these courses students should be able to;		
Course	Outcomes	
PHY 301 Atomic and Molecular	1) To understand the Atomic Spectra and hyperfine	
Physics	structures	
	2) To gain the knowledge of pure rotational spectra,	
	Rotation-vibration spectra, visible and UV spectra	
	3) To understand the Anharmonic oscillator	
	4) To know the parallel and perpendicular bands of	
	linear molecules	
	5) To study the graphical representation and rotational	
	structure of electronic spectra	
	6) To study the Raman effect	
	7) To understand the NMR spectrometer and its	
	applications	

PHY 302 (A) Materials Synthesis	1) To study the Langmuir-Frankel theory of
Methods	condensation
	2) To understand the various techniques of Thin Films
	Depositions
	3) To study the Multiple beam interferometry
	4) To know the Importance of growing single crystals
	and their uses
	5) To understand the electrical properties of thin and
	thick films
PHY 303 (A) Systematic Materials	1) To study the importance of materials
Analysis	characterization
	2) To study the requirements for infrared radiation
	Absorption
	3) To use the Beer's and Lambert's laws
	4) To understand the Structure and Particle size
	determination
	5) To understand the use of electron microscopy
	6) To study the basic principles of Scanning
	Tunneling Microscopy

Semester-IV (M.Sc. PHYSICS)

After completion of these courses students should be able to;			
Course	Outcomes		
PHY 401 Nuclear Physics	1) Know the properties of nucleus likes binding energy,		
	magnetic dipole		
	2) moment and electrical quadrapol moment		
	3) To study the Nuclear Models and nuclear magic numbers		
	4) To understand the n-p, p-p scattering at low and high energy		
	5) To study the Interaction of charged particle and EM radiations with matter		
	6) To study the use of various accelerators and Radiation		
	Detectors		
	7) To understand the basic concept of elementary Particle		
	Physics		
PHY 402 (A) Nanomaterials:	1) To understand the nanomaterials and their necessity		
Synthesis, Properties and	2) To study the various methods for synthesis of		
Applications	Nanomaterials		
	3) To study the Synthesis of SWNT and MWNT and their		
	applications		
	4) To study the Synthesis of metal chalcogenides		
	nanocomposites and their use		
	5) To study the different Characterization techniques of		
	Nanomaterials and their use in different technology.		

PHY 403 (A) Renewable	1) To study Solar Radiation & it's Measurements.		
Energy Sources	2) To understand the Biomass Energy Conversion		
	Technologies and their uses		
	3) To study the principles and basic components of wind mill		
	1) To study the various occan energy conversion		
	technologies		
	5) To understand the Basics of geothermal electric power		
	plant		
	6) To know the operation of fuel cell		

Ph.D. PHYSICS

Sr.	Programme Outcomes (POs)	Program Specific Outcomes (PSOs)
No.		
1	To encourage a culture of research in students and produce quality human resource in the field of Physics	Students are able to analyze problems based on physics by utilizing their skills and physics tools and also shared their knowledge by contributing to the local industry society
2	To enhance research capabilities and develop the intellectual skills essential for prosperity and success in students career	Students are able to integrate in the international research activities and deliberated with the application of daily life phenomenon.
Department of Chemistry

Under Graduate (UG)

After successful completion of three year degree program in(**<u>B.Sc. CHEMISTRY</u>**) a student should be able to;

Sr.	Programme Outcomes (POs)	Program Specific Outcomes (PSOs)
<u>No.</u> 1	To promote understanding of basic facts and concepts in Chemistry while retaining the excitement of Chemistry.	To develop ability and to acquire the knowledge of terms, facts, concepts, processes techniques and principles of subjects.
2	To make students capable of studying Chemistry in academic and Industrial courses.	To develop ability to apply the knowledge of contents of principles of chemistry.
3	To expose the students to various emerging new areas of Chemistry and apprise them with their prevalent in their future studies and their applications in various spheres of chemical sciences.	To inquire of new knowledge of chemistry and developments therein.
4	To develop problem solving skills in students.	To expose and to develop interest in the fields of chemistry.
5	To expose the students to different processes used in Industries and their applications.	To develop the power of appreciations, the achievements in Chemistry and role in nature and society.
6	To develop proper aptitude towards the subjects.	To develop skills required in chemistry such as the proper handling of apparatus and chemicals.

Course Outcomes

Semester-I (FY BSc. CHEMISTRY)

After completion of these courses students should be able to;		
Course	Outcomes	
CHY-101: Physical and Inorganic	1) To expose & develop interest in the field of	
Chemistry	chemistry.	
	 2) To develop ability & to acquire the knowledge of terms, facts concept processes techniques & principles of subject. 3) To understand the fundamental principle and chemical analysis 	

CHY-102: Organic an	nd Inorganic
Chemistry	

- 1) To develop skills required in chemistry such as the proper handling of apparatus & chemical analysis
- 2) To develop ability to apply the knowledge of contents of principles of chemistry

Semester-II (FY BSc. CHEMISTRY)

After completion of these courses students should be able to;	
Course	Outcomes
CHY-201: Physical and Inorganic	1) To develop problem solving skills in students.
Chemistry	2) To develop proper aptitude towards the subject.
	3) To develop ability to apply the knowledge of
	contents of principles of chemistry.
CHY-202: Organic and Inorganic	1) Determine analyses and evaluate the interpretation
Chemistry	ships involve in chemistry.
	2) Develop thirst of chemical knowledge, become
	flexible and persistence learners and appreciate
	the need for lifelong learning.

After completion of these courses students should be able to;		
Course Outcomes		
PHY-301: Physical and	1) Know the qualitative properties of solution, the depression in	
Inorganic Chemistry	freezing point, elevation in boiling point and osmotic pressure. Calculate molar and normal solution of various concentrations.	
	 Explains the application of colligative properties in determining molecular mass. 	
	3) Know the qualitative properties of solution, the depression in freezing point, elevation in boiling point and osmotic pressure.	
	 Compares the general characteristics electronic configuration of lanthanides and actinides, uses of lanthanides and actinides. 	
PHY-302: Organic and	1) This course gives the quantitative ideas about the synthesis,	
Inorganic Chemistry	properties and uses of such heterocyclic compounds like pyrole,	
	pyridine qunolene, thiophene, furan etc Different methods for the	
	preparation of important Hetero cycles and their important	
	reactions. Aromaticity, Huckel's rule and its applications	
	2) Explains the different types of structural and stereo isomers CO ₂	
	Represent organic molecules by Fischer, Flying wedge, Sawhorse	
	and Newman projection formulas, Conformational isomerism of	

Semester-III(SY BSc. CHEMISTRY)

	 ethane, n-butane, cyclohexane, Conformational analysis of 1,4 cis and trans disubstituted cyclohexane. 3) Explains the theories of acids and bases. Different solvents and solubility. Hard and soft acids and bases: definitions, Pearson HSAB concept, theories of Hardness and softness, application and
CH-304 Basic Analytical Chemistry	 limitation of HSAB concepts Develops accuracy and precision in doing experiments, understands the different errors and methods for minimizing errors. Explanation of MSDS. Explain significant figures, absolute error, relative error, mean, median, Give the theory behind the qualitative and quantitative analysis conducted in the laboratory. Study the importance of safety and security, responsibility types of hazards and risk in chemical laboratory.Understand the use of personal protective and other safety equipments, handling of chemical in laboratory.
	2) Understand the route of explores for toxic chemicals. Learn good laboratory practices and its applications.
	3) Students are enabling to aware about PH, POH, derivation of Henderson's equation, Conduct acid base titrations, Different indicators used in titrations,
	4) complex metric titrations, Applications of titrations
	5) Students are Enable to aware about Classification of chromatography, Mobile phase and stationary phase, Study the instrumentation, sample injection system, columns for HPLC and GC, Solvent treatment system and choice of mobile phase. To give an extended knowledge about chromatographic
CH-303 Chemistry	1) Determine the miscibility temperature of phenol–water system
Practical	2) Experimental demonstration of Conductometric and Potentiometric titrations of strong acid against strong base, weak acid against strong base.
	3) Simple Organic and Inorganic derivatives preparations

After completion of	these courses students should be able to;
Course	Outcomes
PHY-401: Physical and Inorganic Chemistry	 Free energy and equilibrium, Gibbs and Helmholtz energies, spontaneous and non spontaneous reactions, changes in enthalpy, Entropy and free energy of reactions, Derivations of Clauses and Celsius chaperon equations.
	 Electrochemistry discussed electrical properties of ionic solutions. Different types of cells and their formulations, applications. Solve the cell reactions and calculate cell EMF. Double salts and coordination compounds, co- ordination complexes and complex ions, coordination number, Unidentate, bidentate and polydentate ligands, chelating ligand and chelates, physical methods used in study of complex, Nomenclature of coordination compounds.
	 4) Therotical knowledge about matals, non metals and semiconductors. Understand the p-type semiconductor and n-type semiconductor. Their preparations and uses.
PHY-402: Organic and Inorganic Chemistry	 Synthesis of organic reaction is itself involves a large part of organic chemistry. This is called synthetic organic chemistry. This chapter involves different synthetic reagents for synthesis of malonic ester and Acetoacetic ester.
	 Organometallic compounds are very important in biological bodies like haemoglobin,
	 chlorophylls, Vitamin B₁₂ and also they can be used as chemical reagent. This course discussed about the synthesis and properties of these organometallics of Zinc, Magnessium, Lithium and Copper.
	 4) to understand deferent theories like MOT, VBT, CFT, LCAO, Compare MO and VB theory, Know the meaning of various terms involved in co- ordination Chemistry ,To understand Werner's formulation of complexes and identify the types of

Semester-IV(SY BSc. CHEMISTRY)

	valences, Know the limitations of VBT, Know the shapes of d-orbitals and degeneracy of d-orbitals, Explain MO Theory and draw the MO diagrams for H ₂ , He ₂ , B ₂ , N ₂ , O ₂ , CO and NO	
CH-403 Chemistry Practical	1) Experiments based on Gravimetric and	
	Colorimetric analysis.	
	2) Gravimetric estimation of Barium, Sulphate,	
	Calcium using silica crucible	
	3) Organic qualitative analysis in small quantity helps	
	in type determination and reducing the consumption of chemicals.	
	4) Determine the physical constants like boiling point	
	and melting point of organic compounds	
	5) Recrystallisation of organic compounds from	
	alashal and water	
	alcohol and water.	
	6) Identify the organic compounds.	
	7) Paper chromatography.	

Semester-V (TY BSc. CHEMISTRY)

After completion of these courses students should be able to;		
Course	Outcomes	
CH-501: Principles of Physical	1) To orient and acquaint the students towards the basic	
Chemistry-I	concepts of Quantum Chemistry	
	2) To acquire knowledge about rates of chemical reactions	
	and distinguishing the reaction of different order and their	
	characteristics.	
	3) To understand the basic principles of phase rules and	
	phase diagrams.	
	4) To learn the underlying principles of electrode reactions,	
	electrochemical cells and applications of EMF.	
CH-502: Inorganic Chemistry	1) To describe the VSEPR theory to predict shape of	
	molecules from electron pairs.	
	2) To describe the bonding in simple compounds using VBT.	
	3) To describe the principles of VBT to predict hybridization	
	of orbitals.	
	4) To understand how CFT explains electronic structure,	
	colour and magnetic properties of co-ordination	
	compounds.	
	5) To introduce the basic principles of MOT and electronic	
	geometry of molecules	
	Sconicity of molecules.	

CH-503 - Organic Reaction	1) To study different types of organic reactions. To
Mechanism	understand the mechanisms of different types of reactions
	2) To distinguish between types of substrates and types of
	reagents.
	3) To understand ways of attack of reagent, breaking and
	formation of bonds in different reaction mechanisms.
	4) To study kinetics, evidences and factors affecting different
	types of reactions.
	5) To study stereochemistry of different reactions.
	6) To understand role of different reagents in different
	reactions
CH-504 Industrial Chemistry	a. Student will understand
	1) basic requirements of Chemical Industry, different terms,
	operations and processes involved in chemical Industry.
	2) Describe Copy Right Act, Patent Act and Trade Marks,
	Bureau of Indian Standards (BIS) and International
	Organization for Standardization (ISO).
	3) Basic requirements, raw materials, different processes and
	operations involved in Sugar Industry and also different
	grades of sugar and uses of by-products of sugar industry.
	4) Importance of fermented products, basic requirements,
	theory and process of alcohol making, fractional distillation
	and various terms involved in Fermentation Industry.
	5) Understand Occurrence of Petroleum, theories of formation
	of Petroleum and different terms Viz. Knocking, Anti-
	Knock Compounds, Octane number, Cetane number,
	Gasohol and Power alcohol etc.
	6) Manufacturing processes involved in Industrial Organic
	Synthesis such as Methanol, Isopropanol, Glycerol,
	Acetylene and Aromatic hydrocarboni.e. Toluene from
	petroleum with their uses
CH-505 - Analytical	1) To develop an understanding of the range and uses of
Instrumentation	analytical methods in chemistry.
	2) To understand and establish the role of chemistry in
	quantitative analysis.
	3) To enhance the Analytical instrumental skill of the
	students.
CH-506(A):Bio-Chemistry	1) Students will study biomolecule like carbohydrates, amino
	acids, proteins, enzymes, lipids and nucleic acids.
	2) Students will understand definitions, classifications and
	examples of these biomolecule.
	3) Students will learn the detailed structure of these
	biomolecule along with types of bonds or linkages present
	in their molecules.

4)	Students will learn the chemical properties of these
	biomolecule and the action of some reagents on them in
	the form of reactions or graphical presentation.
5)	Students will understand biochemical energetic of common
	energy rich compounds along with hydrolytic reactions.
6)	Students will learn metabolisms like Glycolysis, TCA
	cycle,
7)	Transamination, deamination and β - oxidation through
	reactions, enzymes involved, outlines and energetic.

After completion of these courses students should be able to; Course Outcomes 1) To learn the basics of molecular spectroscopy and rotational **PHY-601: Principles of Physical Chemistry-II** spectra. 2) To understand the basic principles and applications of nuclear chemistry. 3) To learn the consequences of light absorption by atoms and molecules and photochemical reactions. 4) To learn the laws of crystallography and basics of crystal structure **PHY-602: Inorganic** 1) Learn about basic principles and synthesis of nanomaterials. Chemistry 2) Learn about classification, composition and processing of cement. 3) Learn about classification and composition of alloys. 4) Learn about types manufacture and applications of fertilizers **CH-603 Spectroscopic** 1) To study principle of spectroscopy and to understand wave **Methods of Structure** parameters and terms involved in spectroscopy. Determination 2) To study different types of spectroscopy. 3) To understand principle, concept and the terms used in each type of spectroscopy. 4) Interpretation of UV, IR, NMR spectra. 5) Use of spectral data for determination of structure of unknown organic compounds. 6) To study different applications of each type of spectroscopy. The student will be able to understand.... **CH-604** Chemistry of industrial Important 1) Describe the industrial production of a number of important Product organic and inorganic compounds / chemicals and products of end use.

comprehensive

knowledge

developments in a field of different chemical industries.3) Importance of Cosmetics Industry and a general study including preparation and uses of the Hair dye, hair spray,

of

cutting-edge

2) Gain

Semester-VI(TY BSc. CHEMISTRY)

	 shampoo, suntan lotions, lipsticks, talcum powder, nail enamel, creams (cold, and shaving creams). 4) Perfumes and identify the distinguishing features of its components and also an essential oils and their importance in cosmetic industries with reference to Eugenol, Geraniol, sandalwood oil, eucalyptus, rose oil, 2- phenyl ethyl alcohol, Jasmone, Civetone, Muscone etc. 5) Know about pesticides both natural and synthetic, benefits and adverse effects of it, also synthesis, manufacture and uses of pesticides viz. Organochlorines (DDT, Gammexene,); Organophosphates (Malathion, Parathion); Anilides (Alachlor and Butachlor). 6) Definition, classification, raw material used in soaps and detergents, reaction involved in it, Manufacture of Soaps and cleansing action of soaps and detergents. 7) Definition, properties of good dyes, relation between colour and constitution, classification of dyes according to their mode of application and chemical constitution. 8) Importance's, definition and meaning of the different terms involved in Drugs and Pharmaceuticals Industry and also synthesis, uses, properties and industrial manufacture of Paracetamol, Aspirin, and Chloramphenicol.
CH-605 Analytical Techniques	 To provide knowledge of instruments which are used in Chemical, Pharma, Petroleum, and insecticide and pesticide industry To increase student technical skill as per industry need. To develop an understanding of the range and uses of analytical methods in chemistern
CH-606(A): Polymer Chemistry	 anarytical methods in chemistry. Define terms like monomer, polymer, polymerization, polydispersity index, etc., classify polymers based on their origin, native backbone chain, and thermal response. Know glass transition temperature and its determination, various ways to express molecular weights of polymers and polydispersity index. Identify different mechanisms of polymerizations viz. Free radical, ionic, and condensation polymerizations. Distinguish techniques of polymerization based on physical conditions required for the preparation of polymers in laboratory or industry. Familiar with preparation, properties, and applications of industrially important selected polymers.

Post Graduate (PG)

After successful completion of two year degree program in (<u>M.Sc. CHEMISTRY</u>) a student should be able to;

Sr. No	Programme Outcomes (POs)	Program Specific Outcomes (PSOs)
	 Demonstrate and apply the fundamental knowledge of the basic principles in various fields of Chemistry Create awareness and sense of responsibilities towards environment and apply knowledge to solve the issues related to Environmental pollution. Apply knowledge to build up small scale industry for developing endogenous product. Apply various aspects of chemistry in natural products isolations, pharmaceuticals, dyes, textiles, polymers, petroleum products, forensic etc. and also to develop interdisciplinary approach of the subject. 	 Have developed their critical reasoning, judgment and communication skills. Augment the recent developments in the field of green and eco-friendly reactions, pharmaceutical, Bioinorganic Chemistry and relevant fields of research and development. Enhance the scientific temper among the students so as to develop a research culture and implementation of the policies to tackle the burning issues at global and local level.

Semester-I (M.Sc. CHEMISTRY)

After completion of these courses students should be able to;		
Course	Outcomes	
CH-110	 Represent of the rate law of the elementary and chain reaction. Understand of the theories for the determination of the rate of the reactions. Understand of the kinetics of the explosive photochemical and unimolecular reactions. Understand of the laws of thermodynamics and their applications. Know the phase diagram of single component systems and binary mixtures. Understand of the applications statistical thermodynamics. Understand of the quantum chemistry of free 	
	electron and H- atom	
CH-130 Inorganic Chemistry	• Able to visualize in 3-D understand the concept of symmetry element and symmetry operation.	

	• Stability of organometallic compound and cluster and application as industrial catalyst.
CH-150 Basic Organic Chemistry	 Know and recall the fundamental principles of organic chemistry that include chemical bonding, nomenclature, structural isomerism, stereochemistry, chemical reactions and mechanism. Justify a reasonable mechanism for a chemical reaction.

Semester-II(M.Sc. CHEMISTRY)

After completion of these courses students should be able to;		
Course	Outcomes	
CH-210	• Understand of the principle of Microwave, IR, Raman Electronic NMR ESR and Mossbauer	
	spectroscopy	
	• Draw of the schematic Microwave, IR and	
	Raman spectrum of di and triatomic molecules	
	based on the selection rules.	
	• Understand of decay kinetics and measurement of radioactivity	
	• Get knowledge of types of nuclear reactors	
	• Study the applications of radioactivity,	
	Understand Radiolysis and radicals	
CH-230	Catalytic reaction involving organometallic	
	compound and mechanism of these reaction	
	• Determing the term symbol of Tranisition	
	element and orgel diagram	
CH-250	• Understand various reactions and rearrangements.	
	• Understand and write mechanism of reactions and	
	their applications.	
	• Understand how to convert one molecule into	
	another by using oxidising and reducing, reagents.	
	• Apply theoretical knowledge in practicals for	
	various conversions.	
CH-290	• Understand the Principles of mass spectroscopy,	
	gas chromatography and HPLC.	
	• Apply the techniques for structure determination	
	of organic molecules.	
	• Perform statistical analysis of chemical data by	
	developing analytical mind	
CH-P-1 Physical Chemistry Practical	After successfully completing this course, students will	
	be able to:	

	 Prepare the solution of the desired concentration and the desired volume. Know the principle and handling of pH meter, Potentiometer, conductivitymeter, colorimeter, viscometer,etc. Plot accurate graphs of the desired scale for the calculations Maintain laboratory ethics, safety and cleanliness Understand waste management of the laboratory
CH-O-1 Organic Chemistry Practical	After successfully completing this course, students will
	be able to:
	• Understand different purification techniques in
	organic chemistry like recrystallization,
	distillation, steam distillation and extraction.
	• Get awareness of safety techniques and handling
	of chemicals
CH-I-1 Inorganic Chemistry Practical	After successfully completing this course, students will
	be able to:
	• Prepare the exact solutions for quantitative analysis.
	• Apply the knowledge of quantitative analysis for
	the determination of metals from ores/alloys.
	Synthesize Inorganic complexes and also find
	their purity.
	• Understand Ion-exchange chromatography for separation of metal ions.
	• Understand the principle and working of different instruments like colourimeter, conductometer,
	spectrophotometer, etc.

Semester-III(M.Sc. CHEMISTRY)

After completion of these courses students should be able to;		
Course	Outcomes	
CH-350: Organic Reaction Mechanism	 Students will study Electro negativity and inductive effect, resonance, bond strength, electrostatic effects, hybridization, aromaticity and solvation. Students will able to make comparison of acidity and basicity of organic compounds on the basis of pKa values,. Students will learn the Organic reactive intermediates and their structure, methods of generation, structure, stability and important reactions involving carbocations, nitrenes, carbenes, arynes. 	
	• Students will learn the neighboring group mechanism, neighboring group participation by π and σ bonds,	

	 anchimeric assistanceStudents will understand biochemical energetic of common energy rich compounds along with hydrolytic reactions. Students will learn Classification, nomenclature and study of all eight mechanisms of acid and base catalyzed hydrolysis with suitable examples.
CH-351: Spectroscopic Methods in Structure Determination	 On successfully completing the module students will be able to: Demonstrate a good understanding of the electromagnetic spectrum and how this can be applied to the study of chemical molecules. Describe the principles of spectroscopic methods such as NMR, IR and UV-Vis. Demonstrate knowledge of the principles of mass spectrometry. Predict number of signals, splitting patterns in the proton NMR of a compound given its structure and use this knowledge to interpret NMR spectra of simple molecules. Identify the absorption frequencies of major functional groups, understand the factors that govern electronic absorption and use this knowledge to interpret IR and UV-Vis spectra of simple organic molecules. Develop ability in the combined use of mass spectrometry and spectroscopic techniques for structure elucidation
CH-352: Organic Stereochemistry	 Understand various terminologies in structure citeration. Understand various terminologies in stereochemistry. Will be able to draw the stereochemical structures of different molecules. Understand the isolation of racemic mixtures. Draw various organic reactive intermediates with stereochemistry.
CH-353: Free radical, photochemistry, Pericyclic reaction and their applications	 Student able to predict the stereochemistry & products of the Pericyclic reactions To develop interest and understanding of the theoretical basis for Pericyclic reactions and skills for the utilization of these reactions in the organic synthesis. Student able to identify different type of pericyclic reaction understand and write mechanism of reactions and their applications. Describe fundamental photochemical and radiation chemical processes both qualitatively and quantitatively, describe the properties and reactivity of radicals and how these are connected to the structure of radicals as well as account for the importance of radicals in industrial processes and in biological systems.

Semester-IV(M.Sc. CHEMISTRY)

After completion of these courses students should be able to;			
Course Outcomes			
CH-450: Chemistry of Natural Products CH-451: Synthetic Methods in Organic Chemistry	 provide an overview of the field of natural product chemistry. identify different types of natural products, their occurrence, structure, biosynthesis and properties. discuss the use of natural products as starting materials for medicines. Understand that some minerals are essential components of important molecules such as hormones and enzymes. Be able to describe the basic properties of enzymes. Able to know about the role of Organo metallic compounds in the synthesis of organic compounds. Gain knowledge on usage of different Protecting groups. Able to write mechanisms of the reactions of various synthetic reagents and their structures. 		
CH-452: Heterocyclic Chemistry, Chiron Approach and Medicinal Chemistry	 After successfully completing this course, students will be able to: Understand the stereochemistry of carbohydrates and their reactions. Understand the concept of chiral templates and chiral drugs Understand the synthesis of various drugs. Understand the mode of action of different anti-fungal, anti-bacterial and anti-viral drugs understand how to synthesize five, six and seven-membered heterocycles. utilize their knowledge in practicals for various heterocyclic and photochemical conversions. 		
CH -O-2: Ternary mixture separation (Annual) Practical	 After successfully completing this course students will know, How to separate three components How to purify organic compounds in small scale 		
CH -O-3: Three stage preparations (Annual)	 After successfully completing this course students will know, How to synthesize organic molecules. How to perform reaction in small scale How to maintain reaction conditions. How to follow reaction by using thin layer chromatography 		
CH -O-4: Short Research Project (Annual)	 To design research oriented project on particular context . To identify the topic with the consideration feasibility. To search literature on selected research oriented project work. To identify/search the advances in current research. 		

• To conduct experiment scientifically with safety.
• To utilize the techniques learn earlier for the synthesis of
bioactive molecules with the help of named reactions and
rearrangements.
• To characterize the prepared molecules by physical and
spectral analysis like IR, ¹ H NMR, ¹³ C NMR and Mass
Spectroscopy.

Ph.D. CHEMISTRY

Sr.	Programme Outcomes (POs)	Program Specific Outcomes (PSOs)
No.		
1	To provide the best education and career opportunity for all students including those from the underrepresented minority groups with the best cultural and nurturing environment conducive to learning and scholarly activities.	In-depth knowledge in one main chemistry field with sufficient background in two related fields through advanced course work and laboratory research.
2	To prepare students for development of methods of independent and systematic investigations leading to scientific w discoveries.	Carry out independent chemistry research with competency in research design, data gathering and interpretation, and communication of research results through scientific publications and presentations
3	To prepare students for a successful career at academic institutions, industrial and business entities, and governmental σ agencies.	Competitive professional employment in academia, industry, consulting, government, and teaching at the college level
4	To promote professional development and growth of the faculty.	Understanding and awareness of professional, ethical and safety applications of their knowledge.

Department of Botany

Under Graduate (UG)

After successful completion of three year degree program in(<u>B.Sc. Botany</u>) a student should be able to;		
Programme Outcomes	 To study the Lower and higher cryptogamic plants. To study the diversity and economical importance of Angiosperms and Gymnosperms plant groups. To study Plant Physiology, Metabolism, Anatomy, Embryology and Ecology. To study techniques of Horticulture, Floriculture, Plant Breeding etc. 	
Programs Specific Outcome	 To study diversity, habit, habitat and life cycle patterns of Virus, Bacteria, Fungi, Algae, Bryophytes and Pteridophytes plant groups. To study the Angiosperms and Gymnosperms plant upto Class, Order, Family, Genus and Species and economical importance each family. To study the Physiological processes, internal structure, embryo and endosperm and ecological factors of plants. To understand Horticulture practices, techniques commercial Floriculture and Plant breeding. 	

Course Outcomes

Semester-I (FY BSc. BOTANY)

After completion of these courses students should be able to;		
Course	Outcomes	
BOT-101: Microbial Diversity, Algae	1) Student studied the diversity among the microbes.	
& Fungi	2) Students had known the systematic morphology and	
	structures of bacteria, viruses' algae and fungi.	
BOT-102: Plant Taxonomy	1) Student studied the diversity among angiosperms.	
	2) To understand the economic importance of the	
	angiospermic plants.	

Semester-II (FY BSc. BOTANY)

After completion of these courses students should be able to;		
Course	Outcomes	
BOT-201: Diversity of Archegoniates	1) To studied the Silent features of Archegoniates	
	2) Student makes aware about higher cryptogams and	
	Gymnosperms.	
BOT-202: Plant Ecology	1) Students aware about the conservation about	
	biodiversity.	
	2) To study the botanical regions of India and types of	
	vegetation in Maharashtra.	

Semester-III(SY BSc. BOTANY)

After completion of these courses students should be able to;		
Course	Outcomes	
BOT-301: Plant Anatomy	1) To known the scope and importance of Plant	
	Anatomy.	
	2) To study various tissue system.	
BOT-302: Plant Physiology	1) To known the importance and scope of Plant	
	Physiology.	
	2) To study the different processes in relation with	
	structure of organism and its environment.	

Semester-IV(SY BSc. BOTANY)

After completion of these courses students should be able to;		
Course	Outcomes	
BOT-401: Plant Embryology	1) To known the scope and importance of Embryology.	
	2) To Study the Pollination, Fertilization Endosperm	
	and Embryogeny.	
BOT-402: Plant Metabolism	1) To study the scope and importance of plant	
	metabolism.	
	2) To known the process of Photosynthesis in higher	
	plants, C3, C4 and CAM pathway.	

<u>Semester-V (TY BSc. BOTANY)</u>	
After completion of these courses students should be able to;	
Course	Outcomes
BOT-501: Lower Cryptogams	1) To study salient features of cryptogamic plants.
	2) To make students aware about the status of
	cryptogams as a group in plant kingdom.
BOT-502: Morphology and	1) To study vegetative and floral morphology of
Systematics of Angiosperms	angiospermic plants.
	2) To study the status of angiosperm in plant kingdom.

	-	
BOT-503: Cell Biology and Genetics	1) To study the Prokaryotic and eukaryotic cell.	
	2) To study the cell components and their functions.	
BOT-504: Plant Physiology and	1) To study the growth pattern of plant.	
Biochemistry	2) To know the phenomenon of	
	photoperiodism and effect of	
	phytochrome on flowering.	
BOT-505: Biofertilizers	1) To introduce application of Biofertilizer technology	
	in Agriculture.	
	2) To familiarize students with microbes used as	
	biofertilizers.	
BOT-506: Horticulture	1) To know horticulture, its scope, disciplines and	
	importance.	
	2) To understand different horticultural practices and	
	their methods.	

Semester-VI (TYBSc. BOTANY)

After completion of these courses students should be able to;	
Course	Outcomes
BOT-601: Higher Cryptogams	1) To study salient features of cryptogamic plants.
	2) To make students aware of the status of cryptogams
	as a group in plant kingdom.
BOT-602: Gymnosperms and	1) To study Gymnosperms with respect to
Paleobotany	distinguishing characters, comparison with
	Angiosperms, and classification.
	2) To study the life cycles of Pinus and Gnetum.
BOT-603: Molecular Biology	1) To study molecular biology in relation to genetic
	material, its inheritance, modification, replication.
	2) To study the mitochondria and chloroplast DNA.
BOT-604: Economic Botany	1) To know useful bio resources of prime importance to
	mankind.
	2) To acknowledge students about various groups of
	plants of the world as well of India.
BOT-605: Floriculture	1) To know floriculture, its scope and importance.
	2) 2) To know the commercial floriculture.
BOT-606B: Plant Breeding	1) To introduce the student with science of plant
	breeding.
	2) To introduce student with branch of Plant Breeding
	for survival of human being from Starvation

Department of Zoology

Under Graduate (UG)

After successful completion of three year degree program in (<u>**B.Sc. ZOOLOGY</u>**) a student should be able to:</u>

Sr.	Programme Outcomes (POs)	Program Specific Outcomes (PSOs)
No.		
1	Possess a good command of fundamentals in Zoology and its relationship to other disciplines.	Achieve excellence in academic and scientific research in the field of Zoology.
2	Know the theories and scientific facts in the sections of Zoology and interrelations among organisms and their biosphere	Develop and implement ways and means to ensure quality performance and outputs of Zoology program.
3	Memorize the concepts of laboratory management, organization and evaluation.	Use modern technology in education and scientific research in Zoology.
4	Recognize the management and concepts of bio-systems, organization and evaluation.	Implement advanced training to improve the skills of graduates in Zoology and related fields.
5	Outline the policy and legislation of animal Science and ethics.	Create academic and scientific environment to attract outstanding faculty, researchers and students.
6	Design and conduct experiments in Zoology	Improve the national and international partnerships with academic institutions and research centers.
7	Communicate effectively through writing reports, giving presentations, and participating in discussions.	Amelioration in presentation skill with specific purpose
8	Demonstrate skill in the usage of computers, networks, and software packages relevant to Zoology	Object orientated computer skill.

Course Outcomes

Semester-I (FY BSc. ZOOLOGY)

After completion of these courses students should be able to:	
Course	Outcomes
ZOO 101 Animal Diversity I	 Understand classification of protista. Study General characters and classification up to classes. Describe and classify phylum Platyhelminthes and identify the problems caused by parasitic forms Understand the anatomical features of non- chordates through type study of Phylum Arthropoda
ZOO 102 Animal Diversity II	 Describe and classify branch Pisces, with examples and salient features Study the Generate an understanding about phyla. Classify mammals and interpret general evolutionary relationships among and between these animal groups
ZOO 103 Practical	 Observe morphological structure of animal. Identify differentiae animal in animal diversity
Ammai Diversity I & H	2) Identity differentiae animal in alimital diversity.

Semester-II (FY BSc. ZOOLOGY)

After completion of these courses students should be able to:	
Course	Outcomes
ZOO 201	1) Understand Derivatives of integument w.r.t. glands and digital
Comparative Anatomy of	tips.
Vertebrates	2) Describe comparative anatomy of Vertebrates.
	3) Discuss Brief account of alimentary canal and digestive glands.
	4) Identify Types of receptors.
ZOO 202	1) Describe Early Embryonic Development.
Developmental Biology of	2) Differ Fundamental processes in development
Vertebrates	3) Explain in brief Types of placenta on the basis of histology
	4) Understand Developmental biology of Vertebrates.
ZOO 203 Practical	1) Observe comparative anatomy of animal.
Comparative Anatomy &	2) Identify differentiae animal in vertebrates.
Developmental Biology of	3) Describe Developmental Biology of Vertebrates
Vertebrates	

<u>Semester-III (SY BSc. ZOOLOGY)</u>

After completion of these courses students should be able to;		
Course	Outcomes	
ZOO 301	1) Understand Structure of a neuron.	
Physiology	2) Understand about Absorption of carbohydrates, proteins, lipids.	
	3) Describe Respiratory volumes and capacities.	
	4) Acquire knowledge regarding Structure of Heart and Endocrine	
	glands	
ZOO 302	1) Describe Biosynthesis and β oxidation of palmitic acid.	
Biochemistry	2) Understand Classification of Enzymes	
	3) Develop knowledge of Enzyme Kinetics.	
ZOO 303	1) Understand Preparation of hemin and hemochromogens	
Physiology &	2) Understand about Estimation of total protein in given solutions by	
Biochemistry	Lowry's method	
	3) Describe Study of permanent slides of spinal cord, duodenum,	
	liver, lung, kidney, bone, cartilage	
SEC I	1) Understand Classification and Biology of Honey Bees	
Apiculture	2) Acquire knowledge regarding Describe Artificial Bee rearing	
	3) Develop knowledge about Products of Apiculture Industry and its	
	Uses	
	4) Understand about Modern Methods in employing artificial	
	Beehives for cross pollination in horticultural gardens	

Semester-IV (SY BSc. ZOOLOGY)

After completion of these courses students should be able to:	
Course	Outcomes
ZOO 401	1) Understand about Mendel's work on transmission of traits
Genetics	2) Understand Chromosome theory of inheritance
	3) Describe definition of gene mapping & mutation
	4) Students become familiar with Chromosomal mechanisms and
	methods
ZOO 402	1) Understand about Major Events in History of Life
Evolutionary Biology	2) Describe Types of natural selection
	3) Acquire knowledge regarding Biological species concept
ZOO 403	1) Describe Study of Linkage, recombination, gene mapping
Genetics &	using the data
Evolutionary Biology	2) Understand about Study of homology and analogy from
	suitable specimens/ pictures
	3) Students become familiar with Study of Mendelian Inheritance
	and gene interactions
SEC II	1) Describe Preparation of blood smear and Differential
Medical Diagnostics	Leucocyte Count.
	2) Develop knowledge about prevention of Diabetes
	3) Understand about Diagnostic Methods Used for Urine Analysis

Semester-V (TY BSc. ZOOLOGY)

After completion of these courses students should be able to;		
Course	Outcomes	
ZOO-501:Reproductive	1) Understand about modern contraceptive devices.	
Endocrinology	2) Describe the diversity in form, structure and habits of invertebrates and vertebrates	
	3) Explain the reproductive patterns in animal world	
ZOO-502: Cell and	1) Explain the fine structure and functions of cell organelles.	
Molecular Biology	2) Understand the tools in molecular biology and its implications in human welfare.	
Zoo 503: Mammalian	1) Ddistinguish tissues with their structural details with functions.	
Histology	2) Understand tissues and their systems.	
	 Develop deeper understanding of life is and how it functions at cellular level as well as histological structure of tissues. 	
Zoo 504: Animal Biotechnology	1) Students become familiar with genetically engineered products for human animal welfare.	
	2) Understand applications of animal biotechnology.	
Zoo 505 : Public health and	1) Understand the need of maintenance of personal and public	
hygiene (Skill Based)	hygiene.	
	2) Acquire knowledge regarding epidemiology, prevention.	
Zoo 506 : (Elective Course – any one)	1) Understand Crop loss due to their dominance.	
A) Pest management	2) Develop personal skills on maintenance of aquarium.	
B) Aquarium Fish Keeping	3) Aware of Aquarium as commercial, decorative and of scientific studies.	

Semester-VI (TY BSc. ZOOLOGY)

After completion of these courses students should be able to;		
Course	Outcomes	
Zoo 601: Study of Leech and	1) Understand the systematic position, habit and habitat of Leech	
Calotes	and Calottes.	
	2) Understand taxonomic status of Leech as invertebrates and Calottes as vertebrates	
Zoo 602. Chick Embryology		
Zoo 002: Click Embryology	1) Study the various stages involved in the developing embryo including chick.	
	2) Know the processes involved in embryonic development and	
	practical applications of studying the chick embryology.	

Zoo 603 : Applied Zoology	1) Acquire basic knowledge and skills in applied branches of zoology
	2) Equip the students with self-employment capabilities.
	3) Provide scientific knowledge of profitable farming.
	4) Get technical skill of vermicomposting
	5) Learn about all aspects of raising poultry for their meat and
	eggs.
	6) Know the economics, problems and prospects of Vermi
	composting and Poultry.
Zoo 604: Microtechnique	1) Understand the process of preparing permanent slides of preserve
	tissue
	2) Prepare the whole mounts microscopic slides and staining
7.00 605.	reactions.
200 005: Bessarch Methodology	1) Understand some basic concepts of research and its
(Skill Based)	methodologies.
(Skiii Dased)	2) Select and define appropriate research problem and parameters
	3) Describing various types of Sampling
	4) Understand the Writing of dissertations project proposals
	project reports research papers
	5) Inculcate the research attitude with details of research and
	publication, presentation.
Zoo 606 : Elective Course	1) Get introduced to the basic concepts of
A) Bioinformatics	Bioinformatics and its significance
	2) Explain generation and different types of computers with basic
	3) Overview about types of Biological data and database search
	tools
	4) Get exposed to computational methods, tools and algorithms
	employed for proteomics and genomics
	5) Develop an expert manpower to handle the own sericulture
	units.
Zoo 606 : Elective Course	1) Give scientific knowledge about mulberry cultivation, silkworm
	rearing techniques to the students.
B) Sericulture	2) I rain the students in compressive silk production techniques.

Post Graduate (PG)

M.Sc. ZOOLOGY

After successful completion of two year degree program in ($\underline{M.Sc. ZOOLOGY}$) a student should be able to;

Sr.	Programme Outcomes (POs)	Program Specific Outcomes (PSOs)
No.		
1	Memorize the concepts of laboratory management, organization and evaluation.	Postgraduate will have significant opportunities in various service domains at national and international level, and can work as scientist, analyst, quality controller, academics, research organizations and set testing labs.
2	Apply knowledge of zoology to become competent teacher at local and national level	Postgraduate will continuous learner to learn and adopt new skills and techniques to overcome the problem related with new technologies.
3	Adopt scientific concepts relating to environmental usage and sustainable development.	Achieve excellence in academic and scientific research in the field of Zoology.
4	Know the theories and scientific facts in the sections of Zoology and interrelations among organisms and their biosphere	Develop and implement ways and means to ensure quality performance and outputs of Zoology program.
5	Design and conduct experiments in Zoology	Improve the national and international partnerships with academic institutions and research centers.

Semester-I (M.Sc. ZOOLOGY)

After completion of these courses students should be able to;		
Course	Outcomes	
ZOO 101 Structure and Function	1) Study the Organization and life	
of Invertebrates	2) Describe Locomotory organelles	
	3) Ability to explain Nutrition and Digestion	
	4) Overview about Respiratory pigments in invertebrates	
ZOO 102 Cell and Developmental	1) Study the Structure and function of Plasma Membrane	
Biology	2) Understand the Signaling molecules.	
	3) Describe Basic concepts of development.	
	4) Overview about Differentiation of neurons.	
ZOO 103 Quantitative Biology	1) Describe Graphical representation of grouped data - Bar	
	diagram, Histogram, Pi diagram, frequency polygon,	
	Ogive curves.	

	2) Study the Correlation and Regression
	3) Explain Analysis of variance
ZOO 104 Practical	1) Overview about Dissection of Grasshopper/Cockroach so
Practical corresponding to ZOO	as to expose its
101 & ZOO 102 CB	2) Become skilled in Classification of Invertebrates -
	Porifera to Annelida up to order
ZOO 105 Practical	1) Understand the process of Detection of carbohydrates by
Practicals corresponding to ZOO	PAS reaction
102 DB & ZOO 103	2) Detection of Mitochondria by Janus green method
	3) Develop an Computation of Standard Deviation

Semester-II (M.Sc. ZOOLOGY)

After completion of these courses stu	dents should be able to;
Course	Outcomes
ZOO 201: Structure and function	1) Describe Organization of Protochordates
of Vertebrates	2) Origin and evolution of Amphibia
	3) Study of endoskeleton of human
ZOO 202 Biochemistry and	1) Chemistry of biomolecules and their significance
Enzymology	2) Overview about Protein structure
	3) Describe Enzyme activity
ZOO 203 Tools and Techniques	1) Describe Principle, parts and its applications of
for Biology	Microscopic techniques.
	2) Study of Cell culture techniques
	3) Understand the Separation techniques in biology
ZOO 204 Practical	1) Develop an Classification of Pisces (Fishes) up to orders -
Practicals corresponding to Zoo:	Elasmobranchii, Ostiechthyes, Teleostomi and Dipnoi.
201 & Zoo: 202	2) Overview about Study of Appendicular and Axial skeleton
	of human
	3) Study of eye ball muscles of Dog fish/ Pecten from eye
	ball of hen.
	4) Understand the process of Estimation of Vit. 'C' from suitable source
	5) Develop an Preparation of buffer of known molarity and
	pH.
ZOO 205 Practical	1) Overview about Preparation of tissue homogenate and
Practicals corresponding to ZOO	fractionation of liver cell components
202 & ZOO 203	2) Describe Study of Compound and Phase Contrast
	microscopy.

Semester-III (M.Sc. ZOOLOGY)

After completion of these courses students should be able to;		
Course	Outcomes	
ZOO 301 (B)	1) Describe the Branches of physiology	
Animal Physiology – I	2) Understand Classification of Animals Based on Thermoregulation	
	3) Explain Thermoregulation in Camel	
	4) study of Functions of Circulatory system in Vertebrates	
ZOO 302 Immunology and	1) Development of different cell types of the immune system	
Molecular Biology	2) Understand Principles of generation of immunoglobulins	
	3) Study The genetic code and process of translation	
ZOO 303 Genetics	1) Illustrate the Co-dominance and Incomplete dominance	
	2) Apply knowledge of Sex linkage, sex limited and sex influenced	
	characters	
ZOO 304 Practical ZOO301 +	1) Use of ELISA technique (HIV) or any suitable method	
ZOO302	2) Understand Determination of Antigen and Antibody reaction by	
	using any suitable method	
	3) Apply knowledge Become skilled in Isolation and estimation of	
	RNA	
ZOO 305 Practical ZOO302 +	1) Calculation of gene frequency of ABO blood group in human	
ZOO303	population	
	2) Illustrate the Gene expression in prokaryotic organism (bacteria)	
Semester-IV (MS_{c} ZOOLOCY)		

Semester-IV (M.Sc. ZOOLOGY)

After completion of these courses students should be able to;		
Course	Outcomes	
ZOO 401	1) To study of Role of membranes in osmotic and ionic	
(B) Animal Physiology – II	regulation	
	2) Understand Mechanism of muscle contraction	
	3) Explain the Hormonal Control of Reproductive Cycle	
ZOO 402	1) Illustrate Newer trends in systematic	
Systematic and evolutionary	2) Describe the Types of taxonomic keys	
biology	3) Understand Neutral theory of molecular evolution	
ZOO 403	1) Apply knowledge of purpose of writing research report of	
Skill in Communication and Writing	dissertation and thesis	
research Paper	2) Study of Introduction to Bioinformatics	
ZOO 404	1) Assessing skin sensitivity - locating different receptors	
Practical ZOO 401 + ZOO 402	2) Observe and Recording of lung volumes and capacities	
	by spirometry	
ZOO 405	1) Identification of animals with the help of keys- Fish/	
Practical ZOO 402 + ZOO 403	Birds/ any available species	
	2) Observe Taxidermy of any suitable animal.	
	3) Become skilled in Understand Preparation of Tables and	
	Graphs from the given hypothetical data	

Department of Electronics

Programme Outcomes: B.Sc. Electronics

After successful com	pletion of three year degree program in Electronics student should
be able to;	
Programme	Prepare students for prominent career in industry, banks, offices and
Outcomes	for further academic study.
Programs Specific	1) To prepare students as a successful person in a life which cater
Outcome	needs of the society and serve the country.
	2) To prepare the students for successful career in industry and motivate them for higher education.
	3) To provide strong platform for analyzing electrical and electronics problems.
	4) To provide knowledge on basic electronics to Digital electronics and Integrated circuit chips and their applications for the society.
	5) To provide necessary foundation on computational platforms and software simulation tools.
	6) To develop observational skills, confidence in using electronics equipment and relate the knowledge of practical concepts for the development of the society.
	7) To provide comprehensive knowledge and understanding in the relevant fields and enable students to pursue the Electronics subject at an advanced level later and to attract outstanding students from all backgrounds.

Course Outcomes B. Sc. Electronics

<u>Semester – I</u> (F.Y.B.Sc)

After completion of these courses students should be able to;		
Course	Outcome	
ELE-101: Network	1)	Apply knowledge to develop circuits using electronic devices.
Analysis and	2)	Apply the concept and knowledge of electronics devices to real
Semiconductor Diodes		life problems.
	3)	Simulate complex circuits and understand the behavior of the
		systems.
	4)	Review, prepare and present technological developments.
ELE-102: Digital	1)	Apply the concept and knowledge of digital electronics devices to
Integrated Circuits		real life problems
	2)	Understand and analyse, linear and digital electronic circuits.
	3)	Understand the technology of advances digital computing.
	4)	Apply the knowledge of Digital integrated circuit to solve the
		problems of society.

<u>Semester – II</u> (F.Y.B.Sc)

After completion of these courses students should be able to;		
Course	Outcome	
ELE-201: Analog Electronics	 Apply the concept and knowledge of integrated circuit chips to develop new systems. Model complex circuits and simulate them. Handle simulation software to analyse electronics circuits. 	
ELE-202: Linear Integrated Circuits	 Apply practical knowledge to solve real life problems of the society. Understand of the course and create scientific temperament and give exposure to the students for independent use of integrated circuit chips for innovative applications. 	

<u>Semester – III</u> (S.Y.B.Sc)

After completion of the	hese courses students should be able to;
Course	Outcome
ELE-301: Analog Communication	 Apply knowledge to develop circuits of analog modulation and demodulation. Analyse modulation circuits and understand the behaviour of the systems.
ELE-302: Microprocessors and Applications	 Apply the concept and knowledge of microprocessors to real life problems. Understand and analyse 8085 microprocessor and its programming. Review, prepare and present technological developments.

<u>Semester – IV</u> (S.Y.B.Sc)

After completion of t	hese courses students should be able to;
Course	Outcome
ELE-401: Digital Communication	 Apply the concept and knowledge of digital communication to develop new systems. Understanding of the course and create scientific temperament and give exposure to the students for independent use of digital communication for innovative applications.
ELE-402: Microcontrollers and Applications	 Apply practical knowledge of microcontrollers to solve real life problems of the society. Gain knowledge of microcontroller programming. Handle hardware and software to shoot problems of the society.

After completion	on of these courses students should be able to;
Course	Outcomes
ELE 351: Semiconductor Physics	 Understanding of fundamentals of semiconductor devices. Awareness of IC fabrication techniques. Estimate the number of carriers at a given temperature for a semiconductor.
	4) Understand the importance of doping to change carrier density
ELE 502: Advanced Digital System Design using VHDL	 Students will able to design digital circuits according to requirements. Student will able to write VHDL code for digital circuit with the help of different modeling style.
	 Acquiring principles required for designing of advanced digital systems. Basic knowledge of Hardware Description Languages (HDL).
	5) Designing of combinational and sequential logic circuits using VHDL.
ELE 503: Advanced	1) Learning architecture of 8086.
Microprocessor	2) Assembly language programming of 16 bit microprocessor
	 3) Aquent knowledge of Assembly language programming of 16 bit microprocessor 4) Able to Aware about the microprocessor and its architecture
	 5) Student will be able to understand the advanced microprocessor 80386 and operation of paging mechanism.
	6) To gain the Knowledge about the Pentium series processor
ELE – 504: Electronic Instrumentation	1) Understand the concept of measurement systems and its various characteristics
	2) Learn about different types of transducers and their working principle.
	3) Know the different electronics measuring instruments and develop the skill to handle them.
	4) Aquent the knowledge of testing instruments.
ELE 505 : Medical Electronics	1) Learn biological signals present in human body
	2) Learn the various blocks of biomedical sensors
	3) The electrodes which are normally used to measure the biological signals
	4) Understand the working principles of various therapeutic and monitoring systems
	5) Understand recording and analysis of prominent bio-signals of human
	6) Understand the measurement and analysis techniques for physiological parameters
	7) Understand the patient imaging and monitoring systems

Semester-V (T.Y.B.Sc)

ELE 506 (A): Embedded C	 Learn structure oriented programming concepts required in all other languages. After completion of this course students are able to built real world applications based on embedded system and automation.
ELE-506(B): Basics of Fiber Optic Communication	 Recognize and classify the structures of Optical fiber and types. Classify the Optical sources, detectors and to discuss their principle. Understanding losses and dispersion.
	4) Awareness of analog and digital links.

Semester-VI (T.Y.B.Sc)

After completion	on of these courses students should be able to;
Course	Outcomes
ELE – 601: Power Electronics	 Students will have fundamental knowledge of semiconductor power electronic device Student can apply this knowledge for designing power electronic circuits
ELE 602: Consumer Electronics	 Understand the various type of microphones and loud speakers. To identify the various digital and analog signal. Understand the various type of consumer goods and acquaint the skill of fault findings. Develop the skill of electronics appliances like Set Top Box, CATV and Dish TV, water purifier, Air conditioner etc. Acquaint the knowledge of different types of Television Technology.
ELE 603: Microprocessor Interfacing Techniques	 Student will be able to Aware about the concept of microprocessor and its interfacing & Capable to analyze the operation and priorities of Interrupt Understand the concept of memory mapping & DMA Student will be able to understand the ADC & DAC interfacing To gain the Knowledge about the programmable interval timer and communication interface 8251 & analyze the operating modes. Interfacing of I/O devices with microprocessor. Introduction to Advance Microprocessors
ELE 604: Computer Network	 Discuss the key technological components of the Network. Evaluate the challenges in building networks and solutions to those.
ELE 605: Embedded Systems	1) To gain the knowledge about the 8051-microcontroller programming such as timer & counter and serial port programming

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	2) Understand the basic concept of interfacing with microcontroller
	3) Understand the interfacing principle with Stepper motor and
	temperature sensor
	4) To gain the Knowledge about the serial peripheral interface
	and two wire interface.
	5) Advanced microcontroller programming
	6) 8 bit microcontroller interfacing
ELE 366: (A) Electrodynamics	1) Understanding of fundamentals concepts of electrodynamics
	and electromagnetics.
	2) Inculcate basic knowledge of electromagnetic waves and
	their propagation
	3) Apply Gauss Law, Amperes Force Law, Lorentz's force,
	Biot-Savarts Law, Faraday's Law for solving the problems in
	Electrostatic and Electromagnetic Fields.
	4) Apply the principle of electrostatic to the solutions of
	problems related to electric field and electric potential,
	boundary value problem in electrostatic field.
	5) Understand the concept of Faradays law, Lenz's Law and
	Maxwell Equation
	6) Apply the Maxwell's equation in free space, linear isotropic
	media and varying fields, energy and electrostatic fields.
ELE-606 (B) Antennas and Wave	1) The student will be able to Understand how the
propagation	electromagnetic wave propagate from an antenna
	2) Learn the concept of RF feeding to an antenna
	3) To calculate the various parameters of antenna to know its
	efficiency.
	4) Study the various types of antennas used in recent
	communication systems.
	5) Understand the wave propagation through space.

POST GRADUATE (PG)

Programme Outcomes: M.Sc. Electronics

Department of	After successful completion of three year degree program in
Electronics	Electronics student should be able to;
Programme Outcomes	1) Identify, formulate, research literature, and analyze complex
	problems reaching substantiated conclusions using first
	principles of Electronics science.
Programs Specific	1) To enhance the knowledge in multidisciplinary approach in
Outcome	the field of Basic

2)	Technologies in electronics, Embedded Systems,
	microwaves, network analysis and synthesis, MEMs,
	nanoelectronics, control systems, ASIC and FPGA.
3)	To provide quality education through innovative teaching and
	learning processes
4)	To promote scientific and educational activities towards the
	advancement of the theory, projects and practice of
	Electronics fields and related arts and sciences.

Course Outcomes M. Sc. Electronics

	Semester-III
After completion of these courses stu	idents should be able to;
Course	Outcomes
ELE-301: Digital Signal Processing	1) Know the basics of digital signal processing
	2) Show skills to design of filters for real time application.
	3) Exhibit the knowledge of DSP algorithms on DSP Platforms.
	4) Demonstrate the ability to analyze filter structures
ELE-302: Microwave Devices and	1) Understand Basics of Microwave and its components
Circuits	2) Identify different microwave devices with their operating principle.
	3) Understand the designing of antenna and its parameter
	4) Gain knowledge of microwave detection and measurement
	which opens up a whole new career option
ELE-303: Embedded System	1) Consider the different constraints of embedded system
Design	design
	2) Use the I2C, SPI communication protocols.to interface the
	devices with controllers.
	3) Establish Controller Area Network and program it.
	4) Familiar with AVR, PIC controllers and able to interface all
	peripherals with these controllers
	5) Use the Arduino boards for various applications at
	professional level.

Semester-III

Semester-IV

After completion of these courses stud	lents should be able to;
Course	Outcomes
ELE-401: Network Analysis and	1) Know the various types of electronics network and its
synthesis	mathematical models.
	2) Solve the electronics networks using mathematical
	theorems.
	3) Use the Laplace transform to solve electronic network.
	4) Know the network functions and synthesis techniques.
ELE-402: Nano Electronics &	1) Explain the properties of Nano particles and Nanotube with
MEMS	their applications in electronics.
	2) Identify the suitable MEMS transducer for a given
	electronic system.
ELE-403: (A) Control systems	1) Know the concepts of sensing physical parameters and
	convert it into electrical parameter.
	2) Have knowledge of open loop and close loop control
	systems.
	3) Able to analyze the control system by various mathematical
	theorem.
	4) Able to analyze the signal in time domain and frequency
	domain.
	5) Know the various signal controllers.
ELE-403: (B) ASIC & FPGA	1) Know the difference between ASIC and FPGA and its
	application.
	2) Design and develop digital circuit using FPGA.
	3) Gain the knowledge of FPGA and its system design which
	unlock the new area of profession.

Ph.D. (Electronics)

Programme Outcomes (POs)	Program Specific Outcomes (PSOs)
The Ph.D. Course provides:	At the end of their PhD course, students will:
• A period of sustained in-depth	• Have a thorough knowledge of the literature
study of a specific topic;	and a comprehensive understanding of scientific
• An environment that encourages	methods and techniques applicable to their own
the student's originality and	research;
creativity in their research;	• Be able to demonstrate originality in the
• Skills to enable the student to	application of knowledge, together with a
critically examine the background	practical understanding of how research and
literature relevant to their specific	enquiry are used to create and interpret
research area;	knowledge intheir field;
• The opportunity to develop skills in	• Have developed the ability to critically evaluate
making and testing hypotheses, in	current research and research techniquesand
developing new theories, and in	methodologies;

written work and oral presentations.

Department of Mathematics

UNDER GRADUATE (UG)

Programme Outcomes: B.Sc. Mathematics

After successful completion of three year degree program in Mathematics student should be			
able to;			
Course Objectives	Programme Specific Outcome		
 A student should be able to recall basic facts about mathematics and should be able to display knowledge of conventions such as notations, terminology and recognize basic geometrical figures and graphical displays , state important facts resulting from their studies. A student should get a relational understanding of mathematical concepts and concerned structures, and should be able to follow the patterns involved, mathematical reasoning. A student should get adequate exposure to global and local concerns that explore them many aspects of Mathematical Sciences. A student be able to apply their skills and knowledge ,that is, translate information presented verbally into mathematical form, select and use appropriate mathematical form. A student should be made aware of history of mathematics and hence of its past, present and future role as part of our 	 Frogramme Specific Outcome 1. Give the students a sufficient knowledge of fundamental principles ,methods and a clear perception of innumerous power of mathematical ideas and tools and know how to use them by modeling ,solving and interpreting. Reflecting the broad nature of the subject and developing mathematical tools for continuing further study in various fields of science Enhancing students' overall development and to equip them with mathematical modeling abilities, problem solving skills , creative talent and power of communication necessary for various kinds of employment Enabling students to develop a positive attitude towards mathematics as an interesting and valuable subject of study. 		

Semester I (F.Y.B.Sc. Mathematics)

After completion of these courses students should be able to;		
Course	Course Outcomes	
MTH 101: Matrix	1) Understand concepts on matrix operations and rank of the matrix.	
Algebra	a) Understand use of matrix for solving the system of linear equations.a) Understand basic knowledge of the Eigen values and Eigen	
	vectors.	
	4) Apply Cayley-Hamilton theorem to find the inverse of the matrix.	
	5) Know the matrix transformation and its applications in rotation,	
	reflection, translation.	
MTH 102: Calculus	1) Understand basic concepts on limits and continuity.	
	2) Understand use of differentiations in various theorems.	
	3) Know the Mean value theorems and its applications.	
	4) Make the applications of Taylor's, Maclaurin's theorem.	
	5) Know the applications of calculus.	
MTH 103(B): Graph	1) Make the applications Graph, Simple graph, Multigraph, Hand	
Theory	shaking lemma, Types of Graphs, Operations on graphs,	
	Subgraphs, Isomorphism of graphs, Walk, path, cycles	
	2) Solving examples of Connected and disconnected Graphs, bridges,	
	Cut vertices, edge connectivity and vertex connectivity, Eulerian	
	graph, Hamiltonian Graph, Planer Graph, Euler's Formula for	
	planer graphs, Kuratowski's two graph, Geometrical dual	
	3) Solve problems on Definition and some properties of trees,	
	Distance and Centre in a tree, Definitions of Rooted and Binary	
	trees, Spanning trees, Minimal Spanning trees, Directed graphs,	
	some types of digraphs.	

Semester II

Course	Course Outcomes
MTH 201: Ordinary	1) Understand basic concepts in differential equations.
Differential Equations	2) Understand method of solving differential equation
	3) Understand use of differential equations in various fields.
MTH 202: Theory of	1) Students can find out roots of any equation of degree less than or
Equations	equal to five. Theory of equations is highly useful in various
	subjects like algebra, linear algebra, calculus, ordinary and partial
	differential equations etc.
MTH 203(A): Laplace	1) Understand basic concepts on Laplace and Inverse Laplace
Transform	transforms
	2) Understand convolution theorem.
	3) Understand use of Laplace transform in solving Differential
	Equations.

Semester-III

After completion of these courses students should be able to;		
Course	Course Outcomes	
MTH 301: Calculus of Several Variables	 limit and continuity of functions of several variables Fundamental concepts of multivariable Calculus. Series expansion of functions. Extreme points of function and their maximum, minimum values at those points. 	
	5) Meaning of definite integral as limit as sums.6) how to solve double and triple integration and use them to find area by double integration and volume by triple integration	
MTH -302(A): Group Theory	 Understand group and their types, which is one of the building blocks of pure and applied mathematics. understand Lagrange, Euler and Fermat theorem understand concept of automorphism of groups understand concepts of homomorphism and isomorphism Understand basic properties of rings and their types such as integral domain and field. 	
MTH 304: Set Theory and logic	 Uses of the language of set theory, designing issues in different subjects of mathematics understand the issues associated with different types of finite and infinite sets via countable uncountable sets knowledge of the concepts and methods of mathematical logic, set theory, relation calculus, and concepts concerning functions which are included in the fundamentals of various disciplines of mathematics understanding the role of propositional and predicate calculus e) able to provide the logical mathematical reasoning, formulate theorems and definitions 	
Semester-IV

After completion of these courses students should be able to;		
Course	Course Outcomes	
MTH -401: Complex	1) The course is aimed to introduce the theory for functions of	
Variables	complex variables	
	2) Students will understand the concept of analytic function	
	3) Students will understand the Cauchy Riemann Equations	
	4) Students will understand harmonic functions	
	5) Students will understand complex integrations	
	6) Students will understand calculus of residues.	
	7) Students will acquire the skill of contour integrations.	
MTH-402(A): Differential	1) Students will aware of formation of differential equations and	
Equations	their solutions	
	2) Students will understand the concept of Lipschitz condition	
	3) Students will understand method of variation of parameters for	
	second order L.D.E.	
	4) Students will understand simultaneous linear differential	
	equations and method of their solutions	
	5) Students will understand Pfaffian differential equations and	
	method of their solutions	
	6) Students will understand difference equations and their	
	solutions.	
MTH 404: Vector Calculus	1) understand scalar and vector products	
	2) Understand vector valued functions and their limits and	
	continuity and use them to estimate velocity and acceleration of	
	partials.	
	3) Calculate the curl and divergence of a vector field.	
	4) Set up and evaluate line integrals of functions along curves.	

Semester-V

After completion of these courses students should be able to;		
Course	Course Outcomes	
MTH - 501: Metric Spaces.	 Deal with various examples of metric spaces; Have some familiarity with continuous maps; Work with compact sets in Euclidean space; Work with completeness; Apply the ideas of metric spaces to other areas of mathematics. 	
MTH - 502: Real Analysis –	1) Explain the completeness of a system of real numbers: a least	
1	upper bound, a greatest lower bound.	

	2) Elaborate on the topological concepts of the real numbers:
	open sets, closed sets, accumulation points, closure, open
	covers compact sets
	3) Define and utilize the following concents: sequence
	5) Define and utilize the following concepts, sequence,
	subsequence, monotone sequence, Cauchy sequence.
	4) Prove that a given function is continuous or discontinuous
	and classify its points of discontinuity.
	5) Justify the convergence/divergence of a given number series;
	6) Prove some of the classical theorems of real analysis
MTH 507 (PRACTICAL	1) Solve problems related to topics in the syllabus of Metric
COUDSE DASED ON	1) Solve problems related to topics in the synabus of Metric
COURSE BASED ON	Spaces and real analysis I.
MTH-501 & MTH-502)	2) Determine metric, solve problems related to metric spaces,
	open spheres, open sets, closed set, limit point, bounded
	metric, equivalent metric, continuous functions, completness,
	compactness, uniform continuity, finite intersection property
	3) Compute lub. glb of a set
	4) Find the limit of sequence sum of series
	5) Determine the open sets closed sets accumulation points
	<i>b</i> belefining the open sets, closed sets, accumulation points,
	points of dicontinuity
	6) Able to classify wheter a function is continuous,
	discontinuous
MTH - 503: Algebra	1) Solve problems related to all topics in the 1. Normal
	subgroups, Quotient groups, Isomorphism theorems for
	groups Isomorphism theorems for groups and examples
	Generator of a subgroup Commutator subgroup
	Automorphism and inner subgroup, Commutator Subgroup,
	Automorphism and inner automorphism
	2) Demonstrate when a binary algebraic structure forms a
	Permutations Cycles of permutation, Disjoint permutations,
	Permutation groups.
	3) Determine Ring, integral domain, field, zero divisors, and
	basic properties. Characteristics of a ring. Subrings, ideals, left
	ideals right ideals principal ideals prime ideals maximal
	ideals Ouotient rings Field of quotients of an integral
	domain Homomorphism of rings Isomerphism theorem for
	domain, nonionorphism of rings, isomorphism theorems for
	rings.
	4) Definition of a polynomial ring, Properties of polynomial
	rings, Division Algorithm, Reducible and Irreducible
	polynomials, Eisenstein's Criterion.
MTH -504: Lattice Theory	1) Interpret Diagrammatical Representation of posets. Maximal
,	and Minimal elements of subset of a poset Zorn's Lemma
	2) Comparing Two definitions of lattice and equivalence of two
	definitions Modular and Distributions in associations in a lattice
	definitions. Modular and Distributive inequalities in a lattice,
	Sublattice and Semilattice, Complete lattice.
	3) Solving examples on Modular lattice, Distributive lattice,
	Sublattice of Modular lattice, Homomorphic image of
	Modular lattice, Complemented and Relatively
	complemented lattice

MTH -505: Integral	1) Know the use of Fourier transform in Wave equation,
Transform	2) Solve Boundary Value Problems, also problem on Heat-flow
	in semi-infinite bar.
	3) 3 Use Fourier transform in communication theory and signal
	analysis image processing and filters, data processing and
	analysis, mage processing and mers, data processing and
	analysis, solving partial differential equations for problems
	on gravity.
	4) Students will be able to use Z-transform in the
	characterization of Linear Time-Invariant system (LTI), in
	development of scientific simulation algorithms
MTH-506(A) C-	1) Uses Arithmetic expression and its evaluation precedence of
Programming	arithmetic operators type. Conversion operator precedence of
1 Togramming	mothematical functions. Deading and writing a sharester
	mathematical functions, Reading and writing a character,
	Formatted input and output, Decision making, if, is-else,
	else-if, switch and go to statements.
	2) Uses Sentinel loops. While loop, do-while loop and for
	statements, Jump in loops, continue, break and exit
	statements.
	3) Uses one dimensional two dimensional and
	multidimensional arrays Declaration and initialization of
	munumensional arrays. Declaration and mutalization of
	arrays Need for user defined functions, multi-function
	program, Elements of function, definition of functions, return
	values and their types.

Semester-VI

After completion of these courses students should be able to;		
Course	Course Outcomes	
MTH -601 : Measure and Integrations Theory	 To gain understanding of abstract measure theory ,definitions and properties of integrations 2. To construct lebesgue measure on real line and in n- dimensional Euclidean space. 3.Explain the concept of length, area, volume of subsets of n-dimensional spaces. 4. Understand how to integrate functions having uncountable discontinuity. 	
MTH 602: Real Analysis II	 Define Riemann integrable and Riemann sums Prove a theorem about Riemann sums and Riemann integrals Knowledge of some simple techniques for testing the convergence of sequences and series of functions, and confidence in applying them. 	
MTH - 603: Linear Algebra	 Define and compute Eigen vectors and Eigen values. Define a vector space and state its properties. 	

 3) Compute the linear span of a set of vectors. 4) Determine the linear independence or dependence of a set of vectors. 5) Determine a basis of a vector space. 6) Explain the ideas of linear independence, spanning set, basis, and dimension. 7) Define and identify linear transformations. 7) State the basic existence theorem for 1st order ODE's and use the theorem to determine a solution interval. 3) Recognize and solve a variable separable differential equation. 4) Recognize and solve an exact differential equation. 5) Recognize and solve a linear differential equation. 5) Recognize and solve a linear differential equation by use of an integrating factor. 6) Make a change of variables to reduce a differential equation to a known form. 7) Find particular solutions to initial value problems. 8) Solve basic application problems described by first order differential equations. 1) Formulate optimization problems; 2) Understand and apply the concept of optimality criteria for various type of optimizatio
4) Determine the linear independence or dependence of a set of vectors.5) Determine a basis of a vector space.6) Explain the ideas of linear independence, spanning set, basis, and dimension.7) Define and identify linear transformations.MTH 604: Ordinary and Partial Differential Equation2) State the basic existence theorem for 1st order ODE's and use the theorem to determine a solution interval.3) Recognize and solve a variable separable differential equation.4) Recognize and solve a variable separable differential equation.5) Recognize and solve a linear differential equation by use of an integrating factor.6) Make a change of variables to reduce a differential equation to a known form.7) Find particular solutions to initial value problems.8) Solve basic application problems described by first order differential equations.MTH 606(B): Operations Research1) Formulate optimization problems;2) Understand and apply the concept of optimality criteria for various type of optimization problems;
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Research2) Understand and apply the concept of optimality criteria for various type of optimization problems;
various type of optimization problems;
3) Solve various constrained and unconstrained problems in
single variable as well as multivariable;
4) Apply the methods of optimization in real life situation.
MTH 605: Graph Theory 1) Understanding a functional hierarchical code organization.
2) Ability to define and manage graphs, connected graphs.
3) Understanding a concept of Cut set and cut vertices

M.S.c. Mathematics

Course Objectives	Programme Specific Outcome
1. A student should be able to understand	1. Strengthening the understanding of the
the proof techniques in	students and substantiating the
Mathematics and importance of theorems for	conceptual framework of the Graduates in
sorting out typical examples.	Mathematics for furthering their
2. A student should acquire sufficient technical	potential and capabilities in the subject.
competence to solve the problems of varying	2. Introducing advanced theories in the subject in
difficulty levels and high notational complexity.	an orderly manner with a clearly defined path of
3. A student should be able to make	interdependence.
observations, experimentation and pattern	3. Introducing the specializations in different

recognition, which would stimulate the research	areas of Mathematics and at the same time
potential	emphasizing the underlying interconnections in
4. A student should acquire the communication	different branches of
skill to present technical Mathematics so as to	Mathematics.
take up a career in Teaching Mathematics at	4. Generating more interest in the subject and
various levels including schools, colleges,	motivating students for self-learning beyond the
universities, etc.	realm of syllabi and examinations.
	5. Inculcating the spirit of inquiry among the
	students and preparing them to take up the
	research in Mathematics.
	6. Exhibiting the wide range of applications of
	Mathematics and preparing students
	to apply their knowledge in diverse areas such as
	Physics, Astronomy, Biology,
	Social Sciences, etc.

Course outcomes

Class	Course	Course Outcomes
M.Sc.	MT-101-	Upon successful completion of this course, students will be able
Mathematics	Advanced	to
Part-I	Real Analysis	1. To gain understanding of abstract measure theory, definitions
(SEM-I)		and properties of integrations
		2. To construct Lebasque measure on real line and in n-
		dimensional Euclidean space.
		3.Explain the concept of length, area, volume of subsets of n-
		dimensional spaces.
		4. Understand how to integrate functions having uncountable
		discontinuity.
	MT-102-II	Upon successful completion of this course, students will be able
	Topology I	to :
		1. Understand topics Topological spaces and continuous
		functions: Topological spaces, Basis for topology. The order
		topology, subspace topology, closed sets and limit points,
		continuous functions, The product topology, Continuous
		functions, Metric topology, The quotient topology.
		2. Compute the Connectedness and compactness: Connected
		spaces, connected sets in the real line, components
		and path components, local connectedness compact spaces, Limit
		point compactness.
		3. Learns dealing with Countability and separation axioms: The
		countability axioms, The separation axioms, The Urysohn
		Lemma, Urysohn Metrization theorem.
		4. Use The Tychonoff Theorem, Completely regular spaces.

Mt-103-	A student who has studied and learned the material should be able
Abstract	to
Algebro	1 Incornorate equivalence relations into group theoretic
Algebra	 Incorporate equivalence relations into group theoretic structures, particularly factor groups. Determine subgroups and determine whether given subsets of a group are subgroups. Use the Fundamental Theorem of Cyclic Groups to classify and determine subgroup structure of non-cyclic groups. Construct and manipulate group homomorphisms and isomorphisms. Recognize and interpret theorems to prove properties about specific algebraic structure. Use the skills of proof by contradiction, proof by contraposition, proof of set equality, and proof using both forms mathematical induction. Define and test a potential isomorphism for being well-defined, a homomorphism and others to characterize a given map. Create factor groups using normal subgroups or the First Isomorphism Theorem and interpret elements of factor groups accurately. Demonstrate understanding of permutations and symmetries in a group theoretic context-articularly the significance of Cayley's Theorem.
MT-104- Ordinary Partial Different Equation	certain finite groups. After studying this course, Student should be able to: • Effectively express the concepts and results of Second Order L.D.E. with constant Coefficients: Basic theory of linear differential equations (L.D.E), the homogeneous and non- homogeneous L.D.E. with constant coefficients; finding C.F. and P.I. the method of undermined coefficients, Variation of Parameters, The Cauchy-Euler equation; Theorems on second order homogeneous L.D.E. (12 Hours) • Linear PDE order one: Introduction, origin, derivation of PDE by removing arbitrary constant and function; Lagrange's method of solving $Pp + Qq = R$; Type-I, II, III, IV for solving $dx/P =$ dy/Q = dz/R; Integral surfaces passing through a given curve. • solves examples on Non-Linear PDE of order one : Complete integral, P.I., singular integral, general integral for PDE of first order; general method for solving PDE of order one and any degree, Charpit's method; Standard form when p and q are present. Clairaut's equation $z = px + qy + (, q)$; standard form when only p, q and z are present; Jacobi's method. • Solves Linear PDE with constant coefficients: Homogeneous

		and non-homogeneous linear PDE with constant coefficients.
		Methods of finding C.F. and P.I. for non-homogeneous. Linear
		PDE.
	MT-106:	After studying this course, Student should be able to:
	Programming	1. Understands Elementary Concepts: Introduction, output
	in C++	operator, characters, literals, variables and declaration, program
		token, initializing variables and constants, input operator and
		output operator, simple programs.
		2. Using Fundamental Types: Numeric, Boolean, enumeration,
		character, integer, arithmetic, increment, decrement, and
		composite assignment operators. Floating point, type conversion,
		numeric outflow, round-off error, and the e-format.
		3. Using Conditional statements: If and If-Else statements,
		statement blocks, compound conditions, shortcircuiting, Boolean
		expressions, nested selection, else-if, switch statements and
		conditional expression operators
		4. Using Functions sense: Standard library functions, user
		defined functions, test drivers, functional declarations, local
		variables and functions, void functions, Boolean functions, Input-
		Output functions, passing by reference, passing by constant
		reference, inline function, slope, over loading, main function,
		default arguments.
M.Sc.	MT-201:	On completion of this unit successful students will be able to:
Mathematics	General	1. The Concepts Abstract Measure Space: Measures and outer
Part-I	Measure	measure, Extension of a measure, Uniqueness of extension,
(SEM-II)	Theory	Completion of a measure, Measure spaces, Integration w.r.t. a
		measure.
		2. Study the theorems on Integration and <i>Lp</i> -spaces: The <i>Lp</i> -
		spaces, Convex functions, Jensen's inequality, the inequalities of
		Holders and Minkowski. Completeness of $Lp(\mu)$ (Reisz Fisher
		Theorem)
		3. Solving examples based on Convergence: Convergence in
		measure, almost uniform convergence, Egoroffs theorem,
		Lusin's theorem, Convergence diagram, Counter examples.
		4. solving examples on Signed measure and their derivatives:
		Signed measures and The Hahn Decomposition, The Jordan
		Decomposition, The Radon-Nikodym theorem, Some
		applications of the radon theorem, bounded linear functional on
		Lp.

MT-202: Complex Analysis	On completion of this unit successful students will be able to: 1. Understand the significance of differentiability for complex functions and be familiar with the Cauchy-Riemann equations; 2. Evaluate integrals along a path in the complex plane and understand the statement of Cauchy's Theorem; 3. Compute the Taylor and Laurent expansions of simple functions, determining the nature of the singularities and calculating residues; 4. Use the Cauchy Residue Theorem to evaluate integrals and sum series.
MT-203: Linear Algebra	Upon successful completion of this course, students will be able1. To write precise and accurate mathematical objects inModules, Submodules, R-homomorphism, Isomorphism, Directsum of modules, free modules, Rank, Structure theorem forfinitely generated modules over PID, Application to groupTheorem.2. For checking the irreducibility of Jordan and Rationalcanonical3. To understand the concepts like ideals and quotient rings.4. To understand the generalization of vector spaces over fieldstomodulesoverrings5. To write about ring theory in a coherent , grammatically correctandtechnicallyaccuratemanner.
MT-204: Mathematical Methods	Upon successful completion of this course, students will be able1. Define and compute Linear boundary value problems:Introduction, derivation of wave equation, heat equation andLaplace's equation in Cartesian, cylindrical and spherical co-ordinates. Principle of superposition, series solutions, separationof variables, types of initial value problems and general solutionof partialdifferentialequation.2. Define a Orthogonality: Orthogonality of sets of functions inthe space of piecewise continuous functions on (a,b) generalizedFourier Series, approximation in the mean, closed and completeorthonormal sets. Fourier series and half range Fourier series,Sturm-Liouville problems, orthogonality of the eigen functionsandtheiruniqueness3. Compute Boundary value problems: Boundary value problemsinvolving the wave equation, heat equation and Dirichlet'sproblems. Solution by the method of separation of variables,temperature in a long Cylinder, heat transfer at the surface of thecylinder and vibrations of the circular membrane. the linear spanofasetofyea

	MT 205	
	M1-205:	Upon successful completion of this course, students will be able
	Number	
	Theory	1. Explain clearly concepts and theory of basic methods for
		solving Arithmetic functions: The Mobius function $\mu(n)$, The
		Euler totient function $\phi(n)$, Dirichlet product of arithmetic
		functions, Dirichlet inverses and the Mobius inversion formula.
		The Mangolt function $\Lambda(n)$, Multiplicative functions, Dirichlet
		multiplication, The inverse of a completely, multiplicative
		function, Liouvilles function $\lambda(n)$, The divisor function $\sigma(n)$,
		Generalized convolutions. Formal power series, Bell series of an
		arithmetical function, Bell series and Dirichlet multiplication,
		Derivatives of arithmetical functions, The Selberg identity.
		2. Recognize the Congruences: Residue classes, Complete and
		reduced residue systems and Euler-Fermat's theorem, Polynomial
		congruences mod p. Lagranges theorem and its applications,
		Polynomial congruences with prime power moduli. The principle
		of cross classification.
		3. Quadratic residues and Quadratic Reciprocity law: Quadratic
		residues, Legenre's symbol and its properties, Evaluation of (-1)
		p) and $(2 \mid p)$, Gauss lemma, The Quadratic Reciprocity law and
		its applications, The Jacobi Symbol. Applications to Diophantine
		equations.
		4. Recognize the concept of Primitive roots: The exponent of a
		number modulo m, Primitive roots, Primitive roots and reduced
		residue systems, The non-existence of primitive roots $mod \ p \ n$
		and $p \ 2n$ for odd primes p and $n \ge 1$. The non-existence of
		primitive roots in the remaining cases. The number of primitive
		roots $mod m$. the primitive roots and quadratic residues. The
		index calculus.
M.Sc.	MT-301:	Upon successful completion of this course :
Mathematics	Topics in	1. It increases the logical thinking of the students.
Part-II	Functional	2. It teaches how to reason and model combinatorically.
(SEM-III)	Analysis	3. Students are able to use generating functions to solve a variety
		of combinatorial problems
		4. Students are able to use addition and multiplication principle.
		5. Students can understand the logical structure of programms.
		6. It develops proficiency in solving discrete math problems

MT-302:	Upon successful completion of this course :
Statistical	1. Students will appreciate Basic concepts: Discrete and
Techniques	Continuous series, Arithmetic Mean, Geometric Mean,
	Harmonic Mean, Median and Mode. Range, Quartile deviation,
	Mean deviation, Standard deviation, Variance and coefficient of
	variation.
	2. Solving examples based on Sample space, discrete probability,
	Mathematical theory of probability, independent events,
	Addition and Multiplication theorems of probability, conditional
	probability and Baye's theorem.
	3. Making applications Theoretical distributions: Random
	variable, probability distribution of a discrete and continuous
	random variable. Probability density function, mathematical
	expectation. Binomial. Poisson and Normal distributions and
	their properties.
	4. Correlation: Definition, meaning, scatter diagram method
	Karl Pearson's method. Probable error. Standard error and Rank
	correlation and concurrent deviations
MT-303:	Upon successful completion of this course, students will be able
Topics in	to :
Field Theory	1. Understand the fundamental concepts of field extensions and
i loid i licoi j	Galois theory and their role in modern mathematics and applied
	contexts
	2 Understand accurate and efficient use of field extensions and
	Galois theory
	3 Understand canacity for mathematical reasoning through
	analyzing proving and explaining concepts from field extensions
	and Galois theory
	4 Apply problem- insightful solutions to several classical
	problems of which the most notable is the problem of solvability
	by radicals: which polynomial equation in one variable can be
	solved by means of radicals i.e. via root extraction in addition to
	the usual rational operations of addition subtraction
	multiplication and division?
	5 Understand why geometric constructions, squaring a sirely
	doubling a cube and trisecting angle are impossible by using
	compass and and insecting angle are impossible by using
	compass and Scale.
MT-306:	The students who succeeded in this course will be
Theory of	1. Familiar Posets, Semi-lattice. Two definitions of lattices.
Lattices	Congruence relations. Congruence lattice. The homomorphism
	theorem. Product of lattices, complete lattices, ideal lattice
	Distributive and Modular Inequalities and Identities
	Complements Pseudocomplements Roolean lattices Roolean
	lattices of nseudo complements in a meet semi lattice. Atoms
	Irreducibility of alements
	2 Able to apply Characterization theorem for modular and
	2, note to apply characterization incording to intoutial and

		1.4.1.4.1. 1.4.1. D 1 1 12 1 4 1 4 1 1
		lattice Birkhoff's characterization of distributive lattice
		Representation of distributive lattices Stone theorem Nabchin
		theorem. Hashimoto's theorem. Distributive lattice with
		pseudocomplementation. Stone lattice, characterization of Stone
		lattice. Stone algebra, characterization of Stone algebra.
		3. Making sense about Distributive, Standard and Neutral
		elements
		4. Able to analyze Kinematics of rigid body motion
		5. Semimodular lattices and Modular pairs
	MT-307:	The students who succeeded in this course;
	Elements of	1. Will be able to understand Definitions and examples, graphs
	Graph	as models, subgraphs, Operations on graphs, Matrix
	Theory	representation of graphs, walks, Trails, Paths, and Cycles.
		Connectedness and connectedness algorithm.
		2. Will be able to solve problems on Trees and Connectivity:
		definition and simple properties of a tree, Bridges, Spanning
		Algorithm Shortoot noth problems. The Prood the First Source
		(BES)algorithm The Backtracing algorithm Dijkstra's
		Algorithm Cut vertices Connectivity
		3 Will be able to describe Fulerian and Hamiltonian Graphs:
		Eulerian trails. Eulerian and semi Eulerian graphs. Fleury's
		algorithm. Hierholzer's algorithm. The Chinese Postman
		Problem, Hamiltonian graphs, Dirac theorem, Closure of a graph,
		Bondy and Chavatal theorem, Travelling salesman problem
		(optimal algorithms and the closest intersection algorithm are not
		expected)
		4. Will be able to analyse the Planar graphs and Coloring of
		graphs: Plane and Planar graphs, Euler's Formula, Vertex
		coloring, Critical graphs, Cliques and edge coloring of graphs .
		5. Will be able to apply Max- Flow, Min- Cut Theorem and
		Ramsey numbers: definition of Ramsey number, Relations
		among Kamsey numbers
		1 Effectively express the concepts and results of Integral
		Fountions: Introduction and classification of Linear Integral
		equations: Integrodifferential equations. Fredholm's equations
		Degenerate kernels, Hermitian and Symmetric kernels.
		Volterra's equations and resolvent kernel; Convolution type of
		kernels.
		2. Construct mathematical proofs of statements and Fourier
	MT-401:	Transforms: The Fourier Integral, complex form of Fourier
M.Sc.	Advanced	Integrals and Fourier Integral theorem; Fourier transforms;
Mathematics	Mathematical	properties, Fourier Cosine and Sine Transforms, finite Fourier
Part-II	Methods	transforms, convolution theorem, Parsvals Identity and
(SEM-IV)		relationship between Fourier transforms and Laplace transforms.

	 3. understand the Calculus of Variations: A basic lemma, statement and formulation of several problems, the Euler-Laggrange equation, first integrals of Euler-Lagrange equation, Geodesics, Brachistochrome problem, Minimum surface of revolution, several dependent variables, Parametric representation, Undetermined end points, Brachistochrome from a given curve to a fixed point and the simple Isoperimetric problem. 4. Understand the logic and methods behind the major proofs in Number Theory. 5. Introduction, definition, formulae, properties, definition of inverse Z-transform, properties, application of z-transform to difference equations.
МТ_ЛО?•	Upon successful completion of this course students
Onarotions	1 Will have the knowledge and skills to explain the concents
Research	PERT AND CPM: Introduction Phases of project management
integration in the second seco	Network diagrams. Fulkerson's rule slack forward pass
	backward pass, critical path, project duration, various floats
	tabular form, differences between PERT and CPM. Project cost
	and crashing the Network
	2. Can apply Decision theory: Steps involved in Decision theory.
	decision making under uncertainty. Minimax. Maximin.
	Maximax. Hurwitz and Laplace criteria. Decision making under
	risk, Expected monetary value and Expected opportunity loss
	criteria and EVPI, Decision trees
	3. Will be able to compute Replacement Models: Introduction,
	Replacement of Items that deteriorate with time with no changes
	in money value, with change in value of money, replacement of
	items that fail suddenly, individual replacement policy, group
	replacement policy and staffing problems
	4. Can understand the topic Simulation: Introduction, when to
	use simulation, advantages and limitations of simulation
	technique, Monte Carlo method, generation of random numbers,
	time flow mechanism, simulation languages
	5. Can understand the concept of Non-linear Programming:
	Quadratic program, Wolfe's algorithm, Beale's algorithm. Frank
	Wolfe's method, reduced gradient method, Kelly's cutting plane
	method, method of approximate programming, gradient
	projection method, Generalized Lagrange's multiplier technique,
	separable programming, linear fractional programming.

MT-403:	Upon successful completion of this course, students will be able
Commutative	:
Algebra	 To understand the Modules, Free modules, Projective modules, Tensor product and Flat modules. Noetherian modules, Primary decomposition, Artinian modules To find examples on Integral extensions: Integral elements, Integral extensions and Integrally closed domain. To understand Dedekind domain: Valuation rings, Discrete valuation rings and Dedekind domains
MT-404:	Upon successful completion of this course, students will be able
Advanced	:
Abstract	1. Recognize Basic concepts of maximal ideals, prime ideals and
Algebra	nil radical of an ideal, semiprime ideals, primary ideals, Prime
	avoidance theorem.
	2. Know the Jacobson radical of a ring, Semisimple ring, Prime
	radical of a ring, Quasi-regular element, Jradical, J-semisimple
	ring, Regular ring.
	3. Know the main Direct sum of rings, Subdirectly reducible and
	To make use Noetherian ring, irreducible ideals, irredundant
	rimary representation Cohen's theorem Krull intersection
	theorem
MT-406·	Upon successful completion of this course :
Algebraic	1 The student has knowledge of Geometric complexes
Topology	nolyhedron orientation of Geometric complexes,
Topology	2 The student understands Chains Cycles Boundaries
	Homology groups Examples and structure of homology groups
	The Euler-Poincare theorem Euler's theorem Pseudo manifolds
	Fundamental group of S_{i}
	3. Understand and explain Simplicial approximation. Induced
	homomorphism on the homology groups. The Brouwer's fixed
	point theorem.
	4. Describe the applications of Homotopic paths and
	Fundamental groups, Covering homotopy property for S1,
	Examples of Fundamental groups, Relation between first
	homology group and fundamental group

Department of Biotechnology

B.Sc. Biotechnology

After successful completion of	f three year degree program in Biotechnology student should be
able to;	
Programme Outcomes	 Apply the knowledge of science and biological principles for developing problem solving attitude, independently carrying out research/ investigation and development works. Write and present a substantial technical report/ document. Demonstrate a degree of mastery in biotechnology and related sciences. The knowledge should be at a level higher than the requirements in the appropriate nation developed programme. Gain knowledge/ skill in integrating ecological and environmental, agriculture, industrial resources concepts for collaborative multidisciplinary solution and carry out planning and management of projects as a member and a leader in a team considering economic and financial factors. Recognize the need and have ability in life long learning independently for professional advancement, demonstrate professional ethics, work culture and understanding of responsibility to contribute to community for sustainable development of society.

<u>Semester - I</u>

Course	Course Outcomes
BT.101	1) To study the basic knowledge pertinent to cell as unit, cell
Cell Biology	organelles and its architecture.
	2) To study the structural and functional details of cell.
	3) Find the answers related to the scope of biotechnology.
	4) To understand how science works.
	5) Aware about biotechnology and its application in various field.
BT.102	1) To demonstrate theory and practical skills in different types of
Biochemical tools	microscopy and their handling techniques and staining
	procedure.
	2) To understand the fundamental biotechnical concepts and
	familiarize with standard solution, buffer and reactions.

	3) Describe the concepts of pH and its biological significance,
	buffers, Henderson Hasselbalch equation, biological buffer
	systems and their importance.
	4) To know the terms and terminologies related to basic
	biochemical aspects.
BT. 103	1) To demonstrate practical skill in microscopy, laboratory
Practical paper I	equipment and their handling techniques and staining
(Based on paper I and II)	procedure.
i.e. BT.101 and BT.102	2) To know the various stages of cell division and also understand
	the significance of each event during mitosis and meiosis.
	3) To perform routine safely and effectively.

Semester - II

Course	Course Outcomes
BT.201	1) Overview of major biomolecules carbohydrates, lipids,
Biomolecules	proteins, amino acids, nucleic acids, classification, structure,
	function of above mentioned biomolecules.
	2) Specify the biological significance of biomolecules in
	metabolism.
BT.202	1) To understand the basic microbial structure and study the
Basic microbiology B	comparative characteristics of prokaryotes and eukaryotes and
	familiarize the structural similarities and differences among
	various microbes.
	2) To know various culture media and their applications and also
	understand various physical and chemical means of
	sterilization.
	3) To know general bacteriological and microbial techniques for
	isolation of pure cultures of bacteria, fungi, and algae.
	4) To learn aseptic techniques and be able to perform routing
	culture handling tasks safely and effectively.
	5) To know the various physical and chemical growth
	requirements of bacteria and get equipped with various
	methods of bacterial growth measurement.
BT.203	1) To demonstrate theory and practical skill in microscopy and
Practical paper II	their handling techniques and staining procedure.
(Based on paper I and II)	2) To understand the basic microbial practices and study the
i.e. BT.201 and BT.202	comparative characteristics of prokaryotes and eukaryotes.
	3) Prepare and view specimens using microscopy (bright field
	microscope)
	4) Aware and train in aseptic handling of microbial specimens.
	5) Practice safe microbiology, using appropriate protective and
	emergency procedures.

Semester – III

Course	Course Outcomes
BT.301	1) To understand basic concept of gene, DNA
Basic genetics	2) To study mutation and chromosomal variations
_	3) Learn basic aspect about gametogenesis and cell cycle.
	4) To understand the Mendel's laws.
BT.302	1) To study the concept and significance of bioprocess technology
Bioprocess technology	2) Range of bioprocess technology and chronological
	development.
	3) Basic principal components of fermentation technology.
	4) To study the screening of industrially important
	microorganisms – primary, secondary, crowded plate method;
	strain improvements.
	5) Working and principal of culture collection centers.
	- National: NCIM, MTCC
	- International: ATCC
BT.303	1) Acquaint with different problems regarding genetics.
Practical paper III	2) To know various stages of cell division and understand the
(Based on paper I and II)	significance of each events during mitosis and meiosis.
i.e. BT.301 and BT.302	3) To developed skill about isolation of industrially important
	microorganisms and familiar with analytical techniques.
SEC.I	1) Know the classification of different varieties of fungi
Algae and mushroom	2) To understand the technique used in the cultivation of edible
cultivation	mushroom.
	3) To study the harvesting of mushroom crop.
	4) Gain adequate knowledge on comparative account of various
	algae
	5) Understand cultivation methods with biofuel technology.
	6) Know about commercial and transportation issues of biomass.

Semester – IV

Course	Course Outcomes
BT.401	1) To understand the basic structure of DNA.
Molecular Biology	2) To understand the central dogma of molecular biology.
	3) To understand the process of replication, transcription,
	translation.
	4) To learn regulation of all molecular processes.
BT.402	1) To know the cellular ontogeny and organ involvement in
Immune Response	immunity.
	2) To study the principles of self-tolerance and autoimmunity.
	3) To know the how the immune system can fight infection and
	cancer, including examples of immunodeficiency diseases.
	4) Know the difference between innate and adaptive immunity.

	5) To understand what antigens are and how they are presented.
	6) To understand the mechanisms involve in control of immune
	responses.
BT.403	1) To understand basics in serological practicals and its handling.
Practical paper IV	2) Aware of molecular biology techniques about isolation of
(Based on paper I and II)	metabolites.
i.e. BT.401 and BT.402	3) Aware and train spectrophotometric estimation of metabolites.
	4) To know about the basic concept in immunology.
SEC.II	1) Acquire comprehensive knowledge of the equipment used in
Bioanalytical	life sciences will be offered in the course an overview of the
Instrumentation	instrumentation used in isolation and separation of molecules
	will also be provided.
	2) Enable the student to understand all aspects of
	bioinstrumentation and tools and techniques used therein.

Semester – V

Course	Course Outcomes
BT.501	1) To provide basic knowledge about the fundamental molecular
Genetics and Molecular	process of living cells.
Biology	2) To introduce the students to the principles of ecology and
	genetic disorders.
	3) Students will gain and understanding of chemical and
	molecular processes that occur in and between cells.
	4) The course particularly aims at understanding structure,
	synthesis and replication of nucleic acids.
BT.502	1) To introduce the students to the basic principles of animal
Animal Tissue Culture	tissue and cell culture.
	2) The course will describe as to how animal cell culture is carried
	out for research and diagnostic purposes.
	3) Gain and understanding of cell culture techniques and their
	application.
	4) To understand concept of transgenesis, transgenic animal and
	their application as well as the human health care
	biotechnology.
BT.503	1) This paper is introduced to acquire requisite skills for the
Bioengineering	design and development of bioreactors, media, sterilization,
	microbial growth etc.
	2) To understand fundamental principles bioprocess and
	bioengineering.
	3) To understood fermentation media, sterilization as well as
	media optimization concept of transgenic animals and their
	application as well as the human health care biotechnology.
	4) Understand the basics of fermentation technology and learnt
	the concept of screening, optimization and maintenance of
	cultures.

BT.504	1) The course provides understanding of microbial analysis of
Food Biotechnology	milk, microbial production of fermented food viz. cheese
	bread etc.
	2) To understand fundamental principles food and mill
	microbiology.
	3) To understand fermented product and pasteurization of milk
	4) To understand the basics of food spoilage food preservation
	and fermented food
BT 505	1) To understand applications of hiotochnology in agriculture
A gricultural	1) To understand applications of biotechnology in agriculture
Agricultural Bistochusteren	 The surface during and fination and his fortilized drives when the surface during the surface d
Biotechnology	2) To understood nitrogen fixation and biofertilizer, mizosphere
	microflora and its role in the rhizosphere.
	3) To understood the basics of plant pathology and disease
	control, horticulture and floriculture.
BT.506(A)	1) To study domestic waste water treatment and classification of
Environmental	waste water treatment.
Biotechnology-I	2) To study biodegradation – concept, biodegradation of
	hydrocarbon, measurement of biodegradation.
	3) Bioremediation – concept, methods of bioremediation (In-situ
	and Ex-situ bioremediation)
	4) To understand xenobiotic and recalcitrant, metabolism of
	xenobiotics.
BT.506(B)	1) Student will be able to characterize data and understand
Biostatistics	different sampling methods.
	2) Use descriptive tools to summarize and display biological data
	3) To identify appropriate statistical methods to be applied in a
	given research setting, apply these methods, and acknowledge
	the limitations of those methods.
BT.507	1) Student are able to understand and perform: Fermentation
Practical Course:	production of antibiotics/ vitamins_amvlase/ linase_ alcohol
i i ucticui coursei	production of untorotics, vitunins, univided, inpuse, utconor
Industrial Biotechnology	organic acid acetic acid
Industrial Biotechnology	organic acid, acetic acid. 2) Estimation of ascorbic acid penicillin/ streptomycin
Industrial Biotechnology	 organic acid, acetic acid. 2) Estimation of ascorbic acid, penicillin/ streptomycin preparation of saurkaut
Industrial Biotechnology	 organic acid, acetic acid. 2) Estimation of ascorbic acid, penicillin/ streptomycin preparation of saurkaut. 1) Student are able to understand and perform: Cell culture medicing and perform: Cell culture medicing and perform.
Industrial Biotechnology BT.508 Practical Course: Animal	 organic acid, acetic acid. 2) Estimation of ascorbic acid, penicillin/ streptomycin preparation of saurkaut. 1) Student are able to understand and perform: Cell culture media preparation sterilization washing identification of differentiation of differ
Industrial Biotechnology BT.508 Practical Course: Animal Biotechnology	 organic acid, acetic acid. 2) Estimation of ascorbic acid, penicillin/ streptomycin preparation of saurkaut. 1) Student are able to understand and perform: Cell culture media preparation, sterilization, washing, identification of differen cell types
Industrial Biotechnology BT.508 Practical Course: Animal Biotechnology and Immunology	 organic acid, acetic acid. 2) Estimation of ascorbic acid, penicillin/ streptomycin preparation of saurkaut. 1) Student are able to understand and perform: Cell culture media preparation, sterilization, washing, identification of differen cell types. 2) Immunological tachniques: accurace col electropherecies
Industrial Biotechnology BT.508 Practical Course: Animal Biotechnology and Immunology	 organic acid, acetic acid. 2) Estimation of ascorbic acid, penicillin/ streptomycin preparation of saurkaut. 1) Student are able to understand and perform: Cell culture media preparation, sterilization, washing, identification of differen cell types. 2) Immunological techniques: agarose gel electrophoresis diffusion technique EUSA texts immobilization block
Industrial Biotechnology BT.508 Practical Course: Animal Biotechnology and Immunology	 organic acid, acetic acid. 2) Estimation of ascorbic acid, penicillin/ streptomycin preparation of saurkaut. 1) Student are able to understand and perform: Cell culture media preparation, sterilization, washing, identification of differen cell types. 2) Immunological techniques: agarose gel electrophoresis diffusion technique, ELISA tests, immobilization, blood tuning.
Industrial Biotechnology BT.508 Practical Course: Animal Biotechnology and Immunology	 organic acid, acetic acid. 2) Estimation of ascorbic acid, penicillin/ streptomycin preparation of saurkaut. 1) Student are able to understand and perform: Cell culture media preparation, sterilization, washing, identification of differen cell types. 2) Immunological techniques: agarose gel electrophoresis diffusion technique, ELISA tests, immobilization, blood typing. 1) Stadent are able to understand and perform.
Industrial Biotechnology BT.508 Practical Course: Animal Biotechnology and Immunology BT.509	 organic acid, acetic acid. 2) Estimation of ascorbic acid, penicillin/ streptomycin preparation of saurkaut. 1) Student are able to understand and perform: Cell culture media preparation, sterilization, washing, identification of differen cell types. 2) Immunological techniques: agarose gel electrophoresis diffusion technique, ELISA tests, immobilization, blooc typing. 1) Student are able to understand and perform: Isolation and performs and pe
Industrial Biotechnology BT.508 Practical Course: Animal Biotechnology and Immunology BT.509 Practical Course:	 organic acid, acetic acid. 2) Estimation of ascorbic acid, penicillin/ streptomycin preparation of saurkaut. 1) Student are able to understand and perform: Cell culture media preparation, sterilization, washing, identification of differen cell types. 2) Immunological techniques: agarose gel electrophoresis diffusion technique, ELISA tests, immobilization, blood typing. 1) Student are able to understand and perform: Isolation and characterization of : food fermenting organism.
Industrial Biotechnology BT.508 Practical Course: Animal Biotechnology and Immunology BT.509 Practical Course: Environmental	 organic acid, acetic acid. 2) Estimation of ascorbic acid, penicillin/ streptomycin preparation of saurkaut. 1) Student are able to understand and perform: Cell culture media preparation, sterilization, washing, identification of differen cell types. 2) Immunological techniques: agarose gel electrophoresis diffusion technique, ELISA tests, immobilization, blood typing. 1) Student are able to understand and perform: Isolation and characterization of : food fermenting organism. 2) Detection of aflatoxin in food, BOD, COD, MBRT of milk
Industrial Biotechnology BT.508 Practical Course: Animal Biotechnology and Immunology BT.509 Practical Course: Environmental Biotechnology	 organic acid, acetic acid. 2) Estimation of ascorbic acid, penicillin/ streptomycin preparation of saurkaut. 1) Student are able to understand and perform: Cell culture media preparation, sterilization, washing, identification of differen cell types. 2) Immunological techniques: agarose gel electrophoresis diffusion technique, ELISA tests, immobilization, blood typing. 1) Student are able to understand and perform: Isolation and characterization of : food fermenting organism. 2) Detection of aflatoxin in food, BOD, COD, MBRT of milk identification of different cell types, carbohydrates and

Semester – VI

BT.601 RecombinantDNA1) To study basic principles of genetic engineering, enzymes vector types, methods of gene transfer. 2) To study gene cloning: indirect and direct screening. 3) Expression strategies for heterologous genes, gene bank animal farming. 4) Techniques and application of DNA sequencing.BT.602 Immunology1) To study the basic principles of immune system, types of immunity, primary and secondary lymphoid organ. 2) Antigen presentation, immune response lymph organs complement system, immunological disorders. 3) To study Ag-Ab interactions, precipitation, agglutination, RIA ELISA, monoclonal antibodies.
Recombinant technologyDNAvector types, methods of gene transfer.2)To study gene cloning: indirect and direct screening.3)Expression strategies for heterologous genes, gene bank animal farming.4)Techniques and application of DNA sequencing.BT.6021)To study the basic principles of immune system, types of immunity, primary and secondary lymphoid organ.2)Antigen presentation, immune response lymph organs complement system, immunological disorders.3)To study Ag-Ab interactions, precipitation, agglutination, RIA ELISA, monoclonal antibodies.
technology2) To study gene cloning: indirect and direct screening. 3) Expression strategies for heterologous genes, gene bank animal farming.BT.6021) To study the basic principles of immune system, types or immunity, primary and secondary lymphoid organ.BT.6021) To study the basic principles of immune system, types or immunity, primary and secondary lymphoid organ.2) Antigen presentation, immune response lymph organs complement system, immunological disorders.3) To study Ag-Ab interactions, precipitation, agglutination, RIA ELISA, monoclonal antibodies.
 3) Expression strategies for heterologous genes, gene bank animal farming. 4) Techniques and application of DNA sequencing. BT.602 I) To study the basic principles of immune system, types or immunity, primary and secondary lymphoid organ. 2) Antigen presentation, immune response lymph organs complement system, immunological disorders. 3) To study Ag-Ab interactions, precipitation, agglutination, RIA ELISA, monoclonal antibodies.
 animal farming. Techniques and application of DNA sequencing. BT.602 To study the basic principles of immune system, types of immunology To study the basic principles of immune system, types of immunity, primary and secondary lymphoid organ. Antigen presentation, immune response lymph organs complement system, immunological disorders. To study Ag-Ab interactions, precipitation, agglutination, RIA ELISA, monoclonal antibodies.
4) Techniques and application of DNA sequencing.BT.6021) To study the basic principles of immune system, types or immunity, primary and secondary lymphoid organ.2) Antigen presentation, immune response lymph organs complement system, immunological disorders.3) To study Ag-Ab interactions, precipitation, agglutination, RIA ELISA, monoclonal antibodies.
 BT.602 Immunology 1) To study the basic principles of immune system, types or immunity, primary and secondary lymphoid organ. 2) Antigen presentation, immune response lymph organs complement system, immunological disorders. 3) To study Ag-Ab interactions, precipitation, agglutination, RIA ELISA, monoclonal antibodies.
 Immunology immunity, primary and secondary lymphoid organ. 2) Antigen presentation, immune response lymph organs complement system, immunological disorders. 3) To study Ag-Ab interactions, precipitation, agglutination, RIA ELISA, monoclonal antibodies.
 Antigen presentation, immune response lymph organs complement system, immunological disorders. To study Ag-Ab interactions, precipitation, agglutination, RIA ELISA, monoclonal antibodies.
 complement system, immunological disorders. 3) To study Ag-Ab interactions, precipitation, agglutination, RIA ELISA, monoclonal antibodies.
 To study Ag-Ab interactions, precipitation, agglutination, RIA ELISA, monoclonal antibodies.
ELISA, monoclonal antibodies.
BT.603 1) To study the basic principles of upstream and downstream
Bioprocess Technology process of different commercially important product;: enzyme
antibiotics, organic acids.
2) To understand quality and economic aspects ion fermentation.
3) To understand the principles and role of biotechnologist in QA
QC, IPR and patenting.
BT.604 1) Gain basic knowledge applications of biotechnology in the
Pharmaceutical field of pharmaceuticals.
Biotechnology 2) Student will understand the concept of drug discovery, drug
designing.
3) Student will get knowledge of various medicinally important
secondary metabolites as well as the role of recombinant DNA
technology for the improvement of productivity and efficacy.
BT.605 I) To understand totipotency, organization of plant tissue culture
Plant Biotechnology aseptic technique of PTC, meristem culture, organ culture.
2) To study the principle and applications of phytonormones.
3) Transgenic plants- methods, analysis, applications.
4) To study the concept of transformation and role of
Agrobacterium.
D1.000 1) To understand basic knowledge of methods applications of the plants animals and
Biotochnology II
2) To study principles and applications bioprospecting
biomonitoring of soil and air
3) Detail understanding of principles of toxicology and
biodiversity and its conservations
BT.606 1) To understand fundamentals of computer and internet and
Bioinformatics
2) To understand the classification database used in
bioinformatics primary and secondary.
3) To study principles and applications of evolutionary analysis
of biological data.

BT.607 Practical Course: Plant Biotechnology	 Student are able to understand and perform: isolation and characterization of: Xanthomonas citri, rhizobium species' preparation and efficiency testing of biofertilizer. Prepare of stock solutions, explant sterilization, media preparation and sterilization, callus culture, shoot tip culture.
BT.608 Practical Courses Genetics and Bioinformatics	 Student will be able to understand and perform: To understand and verification of Mendel's law using color beads. Shall able to perform DNA isolation, perform transformation and conjugation in bacteria. To understand biological database and database search on web, shall access database preparation of stock solutions, searching for gene and protein sequences.
BT.609 Practical Courses Pharmaceutical Biotechnology	 Student will be able to understand and perform: to understand and perform sterility testing of pharmaceutical products, chemical and biological, MIC. To understand and perform MLT, validation of LAF, membrane filtration and sterility testing.

Department of Microbiology

B.Sc. Microbiology

Under Graduate (UG)

After successful completion of three year degree program in (B.Sc. Microbiology) a student should be able to: Sr. **Programme Outcomes (POs) Program Specific Outcomes (PSOs)** No. 1. Students will understand the concepts and 1. Microbiology graduates will apply their knowledge and skills gained through the significance in the field of Biochemistry / program to achieve success in their academic Biotechnology / Microbiology that can be and/or professional development. used for solving the real time problems. 2. Students will acquire skills and ability in 2. Our graduates can apply this knowledge for pursuing postgraduate education. their field and find professional opportunities in industry, agriculture and higher studies. 3. Students will have improved personal 3. The program shall promote them to choose varied career paths in various disciplines of the qualities and transferable skills to help them subject. to groom as responsible citizens. 4. Our candidates will develop a sense of societal and ethical responsibility pertaining to health, agriculture, dairy, genetic engineering, and fermentation industry. 5. The knowledge shall promote our graduates to stand independently amidst the growing technological innovations in the subject. 6. Students will have an expertise in isolation techniques and diagnostic tests.

Course Outcomes

Semester-I (F.Y.B.Sc. Microbiology)

After completion of	these courses students should be able to;
Courses	Outcomes
MB 101: Microbial Diversity	 To understand the basic microbial structure and study the comparative characteristics of prokaryotes and eukaryotes and also Understand the structural similarities and differences among various physiological groups of bacteria/archaea Know general bacteriology and microbial aspects pertinent to bacteria, fungi and algae. How the subject emerge as new branch of biology. To learn ancient view about life continuity and concept of experiment. Aware about historical developments and their applications as technology.
MB 102: Microscopy and Basic Bacteriology	 Demonstrate theory in microscopy and their handling techniques and staining procedures . To know various Culture media and their applications and also understand various physical and chemical means of sterilization. Know general bacteriology and microbial techniques for isolation of pure cultures of bacteria, fungi and algae. Learn aseptic techniques and be able to perform routine culture handling tasks safely and effectively. Comprehend the various methods for identification of unknown microorganisms . To understand the modes of nutrition in microbial metabolism and able to classify the bacteria based on nutrition.
MB 103: Microbiology Practical Paper – I	 To understand the relationship between science and society. To demonstrate theory and practical skills in microscopy and their handling techniques and staining procedures. Understand the basic microbial practices and study the comparative characteristics of prokaryotes and eukaryotes. Comprehend the various methods for identification of microorganisms adopted in Bergey's manual and able to classify the bacteria. To know the various Physical growth requirements of bacteria. Prepare and view specimens using microscopy (bright field microscope).

8. To use appropriate microbiological and molecular lab

Semester-II (F.Y.B.Sc. Microbiology)

After completion of	these courses students should be able to;
Courses	Outcomes
	1.Understand the basic microbial structure and function
MB 201: Basic Biochemistry and	and study the comparative characteristics of prokaryotes
Cytology	and eukaryotes and also Understand the structural
	architecture and differences among bacteria/archaea .
	2.Know basic knowledge pertinent to cell biomolecules .
MB 202: Microbial Techniques	1. To know general bacteriology and introduce microbial
	techniques for isolation of pure cultures of bacteria, fungi,
	algae and virus.
	2. Demonstrate theory and practical skills in handling
	microbial culture.
	3. To know various bacteria based on nutritional needs and
	also understand various physical and chemical means of
	sterilization.
	4. Discern knowledge about sterility assessment of
	sterilizing agents.
MB 203: Microbiology Practical -II	1.Demonstrate practical skills in microscopy and their
	handling techniques and staining procedures.
	2.Understand the bacterial growth and comprehend various
	physical and chemical means of sterilization.
	3.Know General bacteriology and microbial techniques for
	isolation of pure cultures of bacteria, fungi and algae.
	4. Practice aseptic techniques and able to perform routine
	culture handling tasks safely and effectively.
	5. Understand preparation of standard solutions required
	in various assays
	6. Student can adapt the ability to apply the process of
	science-demonstrate an ability to formulate hypotheses and
	design experiments and analyze and interpret results from a
	variety of microbiological methods and apply these
	methods to analogous situations.

After completion of these courses students should be able to;	
Courses	Outcomes
MB - 301: Basic Microbial Enzyme	1.To acquaint students with basic concepts of enzymology
and Metabolism	and microbial metabolism
MB - 302: Microscopy and Microbial	1. To complement the students with the basic knowledge
Ecology	about microscopy and microbial ecology.
MB - 303: Practical Paper-III	1.To introduce the students to various structural,
	biochemical, environmental and microscopic aspects of
	microorganisms along with study of extremophiles.
SEC- I: Microbiological Analysis of	1.To highlight the number and range of pathogens that may
Air, Water and Soil	be found in air, water and soil.
	2. To describe some of the key preventative and
	monitoring actions which maintain and improve
	microbiological quality of water, air and soil.
	3.To introduce the concept and use of indicator bacteria
	specially in water quality monitoring.
	4. To describe the principal indicator bacteria used and
	their key characteristics which make them suitable for use
	as indicators.
	5. To emphasize the value of E. coli and thermotolerant
	fecal coliforms as routine indicators

Semester-III (S.Y.B.Sc. Microbiology)

Semester-IV (S.Y. B.Sc. Microbiology)

After completion of these courses students should be able to;	
Courses	Outcomes
MB - 401: Genetics and Immunology	1. To acquaint students with basic concepts of microbial
	Genetics and Immunology.
MB - 402: Basic Industrial	1.To acquaint students with basic concepts of industrial
Microbiology	microbiology.
MB - 403: Practical Paper - IV	1.To enhance practical skills of students in concern with
	Genetics, Industrial microbiology and enzymology.
SEC-II: Biofertilizers and	1. To aware the students to the adverse effects of plant
Biopesticides	production and protection of chemicals on the biotic and
	abiotic components of environment.
	2. To familiarize students with the microbes used as
	biofertilizers for various crop plants and their advantages
	over chemical fertilizers.

Semester-V (T.Y. B.Sc. Microbiology)

After completion of these courses students should be able to;	
Courses	Outcomes
MB 501- Microbial Genetics	1. To introduce the concepts in Microbial Genetics.

	2. To acquaint with malacular techniques
	2. To acquaint with molecular techniques.
	genetics
MR 502 Bioprocess Technology	2 1 To introduce with concents related to bioresectors and
WID 502- Dioprocess Technology	1. To introduce with concepts related to bioreactors and
	2. To acquising with concerns strain improvement and scale
	2. To acquaint with concepts strain improvement and scale
	up.
	4. To study various methods of strain improvement.
MP 503 Motobolism	4. To study various methods of strain improvement.
WIB 505- Metabolism	2. To understand the concent of thermodynamics and
	2. To understand the concept of thermodynamics and
	Electron Transport Chain.
	5. To define the types of anabolic and catabolic pathways
	A To understand the process of supthesis of Fatty acid &
	+. To understand the process of synthesis of Fatty acid &
MR 504 Rosia Immunology	1 To study the concents related to entire and entiredy
THE 504 - DASIC HIHHUHOIOgy	2. To study the various immune calls and organs functions
	2. To study the various minimule cens and organs functional
	3 To get knowledge about MHC and Antigen Presentation
	4 To learn about Immunological Disorders
	4.10 learn about minimulological Disorders
MB 505- Medical Microbiology-I	1. To introduce the concepts in Medical Microbiology.
00	2. To enrich knowledge about various diseases with respect
	to diagnosis, prevention, control and role of chemotherapy
	3.To understand the human anatomy with functions.
MB 506 (A) - Food Microbiology	1. To understand concepts in milk microbiology.
	2. To complement the students with the basic knowledge of
	food microbiology.
	3. To acquaint the students with food preservation
	tecnniques.
MB 500 (B)- Pharmaceutical Quality	1.10 develop practical skills involved in interpretation of
Control & Quanty Assurance	Diological materials and data.
	2.10 promote development of entrepreneursnip and build up Professionals in Dharmacautical Analysis tooshing and
	P & D work
	2 Develop a scientific attitude to make students open
	minded critical and curious about scope, functioning and
	the future of pharmaceutical Microbiology
MR 507 - Methods in Medical	1 To acquaint with microhial isolation techniques from
Microbiology = I	various clinical samples
mici obiology – 1	2 Gain knowledge about diagnostic tests for diseases
	2. Com knowledge about diagnostic tests for diseases.
	various standard methods
MB-508. Methods in Industrial	1 To acquaint the learner with various fermentation
Microhiology.I	processes
11111 UD1010gy-1	processes.

	 To apply the concept of these processes for commercially valuable products. To correlate this knowledge with the industrial fermentation process.
MB-509: Methods in Applied Microbiology-I	 1.To learn the isolation of agriculturally important microorganisms causing food poisoning & microbes responsible for food fermentation. 2. To understand the principle and methods of microbiological examination of milk and sewage. 3. To acquaint the students with the concept of BOD and nanoparticles.

Semester-VI (T.Y.B.Sc. Microbiology)

After completion of these courses students should be able to;		
Courses	Outcomes	
MB 601- Molecular Biology	1.To get acquainted with the molecular regulatory	
	mechanisms in bacteria.	
	2.To understand the principles underlying techniques used	
	in molecular Biology.	
	3. To study the principle and applications of recombinant	
	DNA technology.	
MB 602- Fermentations	1.To introduce fermentation processes and their types.	
	2.To provide knowledge about the chronological	
	development in fermentation.	
	3. To acquire knowledge about large scale production of	
	commercially valuable products.	
MB 603- Enzymology	1.To understand regulation of enzyme action.	
	2.To get acquainted with enzyme technology.	
	3. To get knowledge about techniques involved in enzyme	
	purification.	
MB 604: -Advanced Immunology	1.To understand various protective mechanisms underlying	
	the human immune system, immunological disorders and	
	tumours.	
	2.To study the principles underlying various	
	immunological techniques.	
	3. To debate the immuno-prophylactic measures against	
	various novel viral infections.	
MB 605-Medical Microbiology - II	1.To create awareness about the infectious diseases.	
	2. To create theoretical base for practical approaches.	
	3. To study prognosis of bacterial, viral and other diseases.	
MB 606 (A) - Agricultural	1. To understand concepts in plant pathology.	
Microbiology	2. To acquaint the students with basic knowledge of plant	
	disease control.	
	3. To complement the students with the concepts in	
	Agricultural Microbiology.	

MB 606 (B)- Regulatory Practices	1.To promote development of entrepreneurship and know	
and IPR	the importance and scope of the IPR in Microbiology.	
	2.To get acquainted with regulatory practices undertaken at	
	commercial level.	
	3.Develop a scientific attitude to make students open	
	minded, critical and curious about scope, functioning and	
	the future of Commercial Microbiology.	
MB 607 - Methods Medical	1.To study pure culture techniques involved in the isolation	
Microbiology – II	of pathogens from clinical samples.	
	2. To investigate the normal flora of skin and mouth.	
	3. To handle diagnostic tests involved in detection of	
	STDs.	
MB-608: Methods Industrial	1.To analyse the potency of an antibiotic by suitable	
Microbiology-II	bioassay.	
	2. To study the stoichiometric evaluation of enzyme	
	activity.	
	3. To handle the techniques involved in enzyme	
	immobilization.	
MB-609: Methods in Applied	1.To isolate and screen microbes involved in	
Microbiology-II	bioremediation processes	
	2. To analyse the wastewater / liquid effluent and	
	emphasize on safety handling of hazardous materials.	
	3. To aware the students about bioenergy, bio fertilizers,	
	biocontrol agents etc.	

Post Graduate (PG)

After successful completion of two year degree program in (**<u>M.Sc. Microbiology</u>**) a student should be able to;

Sr.	Programme Outcomes (POs)	Program Specific Outcomes (PSOs)	
No.			
1	Basic and applied aspects of microbial diversity and systematic.	1.To have the knowledge of Microbiology through theory and practical as well as knowledge of basic concepts of Microbiology in depth.	
2	Impact of various groups of microbes on earth atmosphere, human, plant and animal health and technology development.	2.To known about the basic aspects of Genetic makeup of bacteria ,algae, fungi and virus.	
3	Applications of microbial biomolecules in various fields	3. To understand concept and significance of enzymes in non-aqueous environment.	

4	Biotechnological significance of enzymes from	4.To study trends in pharmaceutical
	extremophiles, environment, medicine and	microbiology.
	industry.	

Semester-I (M.Sc. Microbiology)

After completion of these courses students should be able to;		
Courses	Outcomes	
MB-101 Microbial Taxanomy and Diversity	 To introduce the student with Bergey's Manual. To make students aware of the viral Genetics. To study the culturable and non culturable biodiversity. To study Extremophile bacteria. To understand the process of Algal farming for biodiesel. 	
MB-102 Microbial Biochemistry	 To introduce the students with microbial metabolism. To study concept of Anabolism and Catabolism. To understand the process of transport and energy metabolism. To study the Microbial ATP synthase complex To understand the process of synthesis of Fatty acid & purine and pyrimidine nucleotide. To study of the metabolism of carbohydrates. 	
MB -103 Bioanalytical Techniques	 To introduce the students with bioanalytical techniques. To study of the Radiolabeling techniques. To understand the biophysical methods of analysis of biomolecules. To study the Microscopic techniques. To understand the process of Biosensors, Nanobiosensor. 	
Practical Course	To develop the knowledge of Extremophiles.	
MB- 104 Methods in Microbiolgy		
Practical Course	To develop the knowledge of basic biomolecules.	
MB- 105 Methods in Biochemistry		

Semester-II (M.Sc. Microbiology)

After completion of these courses students should be able to;		
Courses	Outcomes	
MB- 201 Microbial Genetics	1. To introduce the students with Genome organization.	
	2. To study the molecular techniques.	
	3. To study the plasmid biology.	
	4. To study the gene regulation in eukaryotes and	
	prokaryotes.	
	5. To give exposure of Virus genome replication.	
MB- 202 Advanced Enzymology	1. To introduce the students with Bioenergetics.	
	2. To study the role of enzyme.	

MB-203 Immunology	 To study enzyme regulation. To introduce the student with enzyme technology. To study the techniques of enzyme engineering. To study role of Antigen and Antibody . To study the Immunological Techniques. To study Transplantation process. To study technique of Immunoflurescence. To develop the knowledge of Immune response. 	
Practical Course MB 204: Methods in Enzymology	To know importance and scope of enzymes.	
Practical Course MB-205 Methods in Molecular Biology and Immunology	To develop the knowledge of techniques in immunology and molecular biology.	

Semester-III (M.Sc. Microbiology)

After completion of these courses students should be able to;		
Courses	Outcomes	
MB-301 Applied and Environmental	1. To introduce the students with Environmental	
Microbiology	microbiology.	
	2. To study microbial communities and ecological	
	adaptation.	
	3. To know about conservation of microbial waste	
	management.	
	4. To study biological conversion of Lignocellulosic	
	waste.	
	5. To study food microbiology and food intoxication.	
MB-302 Molecular Biology and	1. To introduce the students with current status and future	
Bioinformatics	of bioinformatics.	
	2. To acquaint with advance knowledge of different	
	instruments related to basic bioinformatics.	
	3. To study of DNA topological properties.	
	4. To study of Protein targeting and degradation.	
	5. To develop the knowledge of Bioinformatics tools.	
MB -303 Pharmaceutical	1. To know scope & importance of Pharmaceutical	
Microbiology	Microbiology.	
	2. To study Quality control and Quality Assurance.	
	3. To study large scale production of antibiotics, enzyme,	
	vitamin, organic acid, amino acid.	
	4. To known about Regulatory aspects and quality	
	assurance in pharmaceuticals.	
	5. To study of Drug design.	

Practical Course MB- 304 Methods in Biostatistics and Bioinformatics	To make students enable for Exploring Biostatistics and Bioinformatics.
Practical Course MB- 305 Methods in Applied Microbiology	To develop the knowledge of evaluation techniques in Applied Microbiology.

Semester-IV (M.Sc. Microbiology)

After completion of these courses students should be able to;		
Courses	Outcomes	
MB- 401 Fermentation Technology	 To introduce the students with Upstream processing in fermentation technology. To study the Design and Application of Bioreactor. To study the Microbial Products enzymes, organic acids, amino acids, polysaccharides , antibiotics. To study the Strain improvement process. To give exposure of IPR. 	
MB- 402 Applied Molecular Biology	 To introduce the students with Tools of molecular biology. To study the Microbial Genomics. To study Protein Engineering and Proteomics. To introduce the student with techniques in molecular biology. To study the application of genetic engineering. 	
MB-403 Agricultural Microbiology	 To study Microbial communities and ecological adaptations. To know about Microbial Bio control. To study microbial interaction with plant roots. To introduce the students with current approaches in agricultural microbiology. 	
Practical Course MB 404: Methods in Biotechnology	To develop the knowledge of techniques in biotechnology.	
Practical Course MB-405 Project Dissertation	To improve research oriented skills of students.	

Department of Commerce

F.Y.BCOM SEM-I & II

Subject Name Objectives		Outcomes	
ENGLISH FOR BUSINESS	 To introduce communication theory to students. To inculcate various communication skills in English among students. To introduce various soft skills to students. 	 To improve oral and written competency in English of students. To develop linguistic competency of students through various grammatical and vocabulary exercises. 	
MARATHI	 To introduce various famous entrepreneurs to commerce students. To develop Marathi reading and linguistic comprehension of students. To improve professional and entrepreneurial attitude of students through success stories. 	• To Acquaint Students with special challenges of starting new ventures 5. To know the qualities to become a successful entrepreneur.	
MICRO ECONOMICS	 Micro economics theory is to analyse how individual decision-makers, both consumers and producers, behave in a variety of economic environments. The common goal in all of these issues is to identify the incentives of the various participating agents and the trade-offs that they face. 	 Micro economics theory is to analyse how individual decision-makers, both consumers and producers, behave in a variety of economic environments. The common goal in all of these issues is to identify the incentives of the various participating agents and the trade-offs that they face. 	
FINANCIAL ACCOUNTING& COSTING	 To lay a foundation for understanding the Accounting Standards issued by the ICAI. To gain the ability to solve problems relating to settlement of obligations on dissolution of partnership firm and also 	• To introduce the concepts used in Cost Accounting, elements of costs and the concept of cost sheet.	

	relating to their business combinations	
COMPUTING SKILLS	 To familiarize the Students with basics of Internet. To understand the use of Office application 	 To understand the how of accounting software works. To know the relevance of Tally accounting package in modern competitive world.
MODERN OFFICE MANAGEMENT	 To understand the concept of office management. To acquire operational skills of office management. To develop the interest in methods and procedures of office management. To know the secretarial procedure 	 To understand office layout and environment in modern context. To acquire the basic knowledge of office appliances and machines. To understand office system. To acquire knowledge of office meetings and proceedings.
PRINCIPLES & PRACTICES OF BANKING QUANTITATIVE TECHNIQUES	 To impart practical knowledge & applicability of theoretical concepts with routine examples objective- measurements and the statistical, mathematical, or numerical analysis of data collected through polls, questionnaires, and surveys, or by manipulating pre-existing statistical data using 	 To impart practical knowledge & applicability of theoretical concepts with routine examples objective- measurements and the statistical, mathematical, or numerical analysis of data collected through polls, questionnaires, and surveys, or by manipulating pre-existing statistical data using
	computational techniques .	computational techniques .

S.Y. BCOM SEM-III & IV

Subject Name	Objectives	Outcomes
BUSINESS SKILL	 To equip students with the necessary soft skills to enhance their competitive edge in the job market 2. To imbibe in students positive attitude towards life and work. To help students excel in their individual and professional lives using the soft skills 	 Student shall be able to – Understand the significance and essence of a wide range of soft skills. Learn how to apply soft skills in a wide range of routine social and professional settings. Learn how to employ soft skills to improve interpersonal relationships.

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		• Learn how to employ soft skills to enhance employability and ensure workplace and career success
MACRO ECONOMICS	• The objective of macroeconomic policies is to maximize the level of national income, providing economic growth to raise the utility and standard of living of participants in the economy.	• The outcome of macroeconomic policies is to maximize the level of national income, providing economic growth to raise the utility and standard of living of participants in the economy
BUSINESS AND TAX LAWS	 Learn The Law & Legal Principals of Contract Act 1872. Draft legal documents including partnership deed & service tax returns. Understand the basic structure, rules & powers of consumer protection act. To know the provision regarding strikes and lock outs under industrial dispute act. 	 Be acquainted with development of patents and environment protection act. Students to gain a better underrating of the negotiable instrument act. Learn how to analysis the legal constraints on business. Be able to face the problems on various sides of Business and Tax Law.
CORPORATE ACCOUNTING	 To acquaint the students with modern updated computerized accounting system and software. To develop an understanding of the rules of measurement and reporting relating to various components of corporate financial transactions. 	 To provide working knowledge of accounting principles and procedures for recording of transactions related to corporate entities. To provide working knowledge for preparing the corporate accounts and statements in accordance with the statutory requirements.
COMPUTING MANAGEMENT	 To Understand the Objectives of Computerized Accounting. To Know the Principles Of Tally Software. To acquire Computing Skills. To Study various features of Tally. To Acquaint with Modern Technology In Accounting. To study of Goods and Services Tax Act. 	 Demonstrate a basic understanding of computer hardware and software. Demonstrate problem-solving skills. Apply logical skills to programming in a variety of languages. Utilize web technologies. Present conclusions effectively, orally, and in writing.

	• To use Tally with GST.	 Demonstrate basic understanding of network principles. Working effectively in teams. Apply the skills that are the focus of this program to business scenarios.
BUSINESS ENTREPRENEURS HIP	 To improve the knowledge, skills & competencies of the potential & existing entrepreneurs in various sector. To improve life management skills of children and youth. To provide intellectual resources to youth for their best future. To improve social and economic skills. To provide diverse opportunities for participation. To empower to people to create business opportunities. To boost the Entrepreneurship Development Programme. To boost women and rural entrepreneurship. 	 To understand different methods to assess the attractiveness of business opportunities. To understand what characterizes an attractive business opportunity and common pitfalls during the entrepreneurial process. To products or services to market. To understand different methods that can be used to minimize uncertainties at different stages of the entrepreneurial process. To understand the dynamics of how teams develop and function as well as the various types of conflicts that can arise during teamwork
MODERN BANKING & FINANCIAL SYSTEM	 To acquaint students with the new concepts of Banking. To update the students about new changes in Banking. To know the relevance Banking practices in modern competitive world. To make understandable of Banking operations. 	 Explain the various functions of money, and how money has evolved over time. Show that modern banking systems include both privately owned commercial banks and government-owned central banks. Explain how commercial banks. Explain how commercial banks create money through the process of taking deposits and making loans. List what is included in the various measures of the money supply.
	 To acknowledge the students with the cost accounting concepts, Methods and techniques. To enable the students to apply analytical tools & techniques of cost accounting. 	 Demonstrate a basic understanding of computer hardware and software. Demonstrate problem-solving skills.

 COST ACCOUNTING To lay a foundation for understanding the Labour& Overheads Accounting procedure. To develop competence among the students. 	 Apply logical skills to programming in a variety of languages. Utilize web technologies. Present conclusions effectively, orally, and in writing. Demonstrate basic understanding of network principles. Working effectively in teams. Apply the skills that are the focus of this program to business capacing.
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T.Y.BCOM SEM-V & VI

Subjet Name	Objectives	Outcomes
INDIAN ECONOMIC SCENARIO	 To acquaint students with new concepts of Economics. To update the students about new changes brought in Indian Economy. 	 To know the relevance Economic practices in modern competitive world. To make students competent to become success in competitive examination.
PRINCIPLES OF AUDITING	 To acquaint students with new concepts of Auditing. To update the students about new changes brought in practices of Auditing . 	 To know the relevance Economic practices in modern competitive world. To make students competent to become success in competitive examination.
INCOME TAX	 To know the various provisions relating to Income and Incomes tax computation. understand the basic concepts of the Income Tax Act 1961 and get the elementary knowledge of scheme of taxation in India. 	• To compute Income and Tax of an Individual assesse under the Act.
HUMAN RESOURCE MANAGEMENT	• To familiarize students with concepts of human resource planning, Job Analysis, Recruitment and selection procedures.	• To introduce the concept, principles and practices of H.R.M. to the students.
BUSINESS MANAGEMENT	• To familiarize students with concepts of modern management techniques.	• To introduce the concept, modern management techniques.

ADVANCED ACCOUNTING- I	• Developing Skills for Applying Knowledge to Business Situations.	• Developing Skills for Applying Knowledge to Business Situations.
ADVANCED ACCOUNTING -II	• Developing Skills for Applying Knowledge to Business Situations.	• Developing Skills for Applying Knowledge to Business Situations.
GOOD & SERVICE TAX GST	 To equip students with the necessary soft skills to enhance their competitive edge in the job market. To imbibe in students positive attitude towards life and work. 	• To help students excel in their individual and professional lives using the soft skills.

MCOM SEM-I & II

Subjet Name	Objectives	Outcomes
ECONOMICS OF INDUSTRIES-I	• To achieve the assigned target for the development of industries. to provide information about sources of nature, climate for the industrial growth, supplies for production etc.	• To achieve the assigned target for the development of industries. to provide information about sources of nature, climate for the industrial growth, supplies for production etc.
STRATEGIC MANAGEMENT	• Strategic management includes setting objectives for the company, analyzing the actions of competitors, reviewing the organization's internal structure, evaluating current strategies and confirming that strategies are implemented company-wide.	• Strategic management includes setting objectives for the company, analyzing the actions of competitors, reviewing the organization's internal structure, evaluating current strategies and confirming that strategies are implemented company-wide.
RESEARCH METHODOLOGY IN COMMERCE AND MANAGEMENT	• To study Research Methodology for decision making in business.	• To understand process of research by students by filling questionnaire for preparation of research report
ADVANCED ACCOUNTANCY	• After studying this paper the student will be able to –	
OR HUMAN RESOURCE MANAGEMENT	 Understand the advanced aspects of accounting relating to company liquidation, Holding company, and Hire-purchase. Understand the method of presenting financial statements by Insurance companies To endow the student with a broad perspective on themes and issues of Human Resource Management. To apply theories of social science disciplines to work place issues. 	 Understand the accounting procedure for goods of small value under hire- purchases transactions. To understand the importance of training and morale. To know the role of Ethics in HRM
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ECONOMICS OF INDUSTRIES-II	• To achieve the assigned target for the development of industries. to provide information about sources of nature, climate for the industrial growth, supplies for production etc.	• To achieve the assigned target for the development of industries. to provide information about sources of nature, climate for the industrial growth, supplies for production etc.
CASE STUDIES IN STRATEGIC MANAGEMENT	• Comprehensive cases on various strategic situations based on application of strategic management must be discussed and solved, based on topics covered in paper No 102. At least three cases on each topic are expected, and a minimum 16cases in all shall be studied during the semester.	• Comprehensive cases on various strategic situations based on application of strategic management must be discussed and solved, based on topics covered in paper No 102. At least three cases on each topic are expected, and a minimum 16cases in all shall be studied during the semester.
INTERNATIONAL BUSINESS	• To enhance free trade at global level and attempt to bring all the countries together for the purpose of trading. To increase globalization by integrating the economies of different countries. To achieve world peace by building trade relations among different nations.	• To enhance free trade at global level and attempt to bring all the countries together for the purpose of trading. To increase globalization by integrating the economies of different countries. To achieve world peace by building trade relations among different nations.

MCOM SEM-III & IV

Subject Name	Objectives	Outcomes
MANAGEMENT ACCOUNTING I	 Understand the nature, mechanics and tools of management accounting and their managerial implications. Understand the philosophy and rationale of the financial analysis. Understand the techniques of analysis and interpretation of financial statements. 	 Develop an appreciation about the utility of techniques of financial analysis for management information and decision making process. Evaluate the implications of cash flow and fund flow on financial position of an industrial organisation.
ENTREPRENEURS HIP & PROJECT MANAGEMENT	 Encourage and inspire the students to become an Entrepreneur. Acquaint the students with the challenges to start a new venture. 	• Provide theoretical foundation for executing various projects. highlight the support system for Entrepreneurship Development
ORGANIZATIONA L BEHAVIOUR	 Get an overview of organizational behaviour and the challenges and opportunities. Understand the concept of behaviour – individual and organizational Behaviour. Know about perception, learning, attitude, values and emotions. 	 Gain knowledge of Motivation and Leadership and its various theories . Acquire basic knowledge of organisational change and development.
MANAGEMENT ACCOUNTING- II	 Understand the concept and techniques of financial control used in management accounting Imbibe knowledge about the control techniques namely budgetary control and standard costing. Develop the skill to analyse the cost-variance for effective cost control. Familiarise with the concept, role, and utility of marginal costing, and its implications and utility for managerial decision making process. 	 Acquaint themselves with the concept and significance of working capital and its implications in managing the funds. Familiarise with the concept, role, and utility of marginal costing, and its implications in decision making . Provide necessary inputs in form of concepts, theories and appraisal techniques related to capital expenditure decisions, and develop an integrated approach to capital-expenditure decision-making process

MODERN RETAIL MANAGEMENT	 Acquaint the students with the various concepts and theoretical aspect of retail management. Introduce the most modern techniques and practices of retailing for employment opportunity. Understand dynamics of modern organised retail trade. 	 Get the insight of the theoretical aspect of retail management . Know the modern techniques and practices of retailing in India. Design the strategies and understand dynamics of modern organised retail trade.
INFORMATION SYSTEM FOR BUSINESS	 Develop conceptual understanding about latest developments in the field of Information Technology and the impact of I.T. in Managing a Business. Learn to use Information Technology to gain competitive advantage in business. Develop students as Cyber Security experts, Information System Auditors. 	 Analyze and model the flow of information through business processes. Formulate plans and architectures for the capture, storage and retrieval of data. Develop computer programs to support or automate business processes. Apply networking concepts and technologies to support business needs. Align information systems and services with business strategy and formulate plans for the retrieval and analysis of supporting data. Document, monitor and assess the effectiveness of IT controls.
ADVANCED ACCOUNTANCY OR	 After studying this paper the student will be able to – Understand the advanced aspects of accounting relating to company liquidation, Holding company, and Hire-purchase. Understand the method of presenting financial statements by Insurance companies 	• Understand the accounting procedure for goods of small value under hire- purchases transactions.
HUMAN RESOURCE MANAGEMENT	 To endow the student with a broad perspective on themes and issues of Human Resource Management. To apply theories of social science disciplines to work place issues. 	 To understand the importance of training and morale. To know the role of Ethics in HRM

Department of B.B.A

F.Y.BBA SEM-I

Subjet Name	Objectives	Outcomes
PRINCIPLES OF MANAGEMENT	• To provide a basis of understanding to the students with reference to working of business organization through the process of management.	• To familiarize the students with the basic Management concept & process.
PRINCIPLES OF ECONOMICS	• The objective of this subject is to develop a basic understanding about the Principles of Economics.	• The objective of this subject is to develop a basic understanding about the Principles of Economics.
PROFESSIONAL COMMUNICATION	 To impart the basic communication skills among students. To improve the English Language Proficiency of the Students. 	• To develop confidence in Speaking English.
FUNDAMENTALS OF ACCOUNTING	• To study the fundamental Accounting concepts, terms, jargons and learn the process of recording of financial transactions in the books of Accounts.	• To develop the foundation for higher studies in the field of accounting.
INFORMATION TECHNOLOGY FOR BUSINESS	• The objective of this subject is to develop a basic understanding about the Information technology & its applications.	• The objective of this subject is to develop a basic understanding about the Information technology & its applications.
PRACTICALS ON PROFESSIONAL COMMUNICATION	 To improve the English Language proficiency of the Student . To develop confidence in Speaking English. 	• To impart the practical aspects of communication skills among students

PRACTICALS ON	• To impart practical knowledge &	& • To impart practical knowledge &
OFFICE	applicability of theoretica	al applicability of theoretical
AUTOMATION	concepts with routine examples	concepts with routine examples

F.Y.BBA SEM-II

Subject Name	Objectives	Outcomes
ORGANIZATIONAL BEHAVIOR	 To study Human behaviour at work . To get knowledge of Individual & Interpersonal perspectives. 	• To get in depth knowledge of motivation, leadership and organizational change.
MANAGERIAL ECONOMICS	The objective of this subject is to develop a basic understanding about the Managerial Economics.	• The objective of this subject is to develop a basic understanding about the Managerial Economics.
BUSINESS ETHICS AND CORPORATE GOVERNANCE	• The objective of this subject is to make the students more clear about the importance of ethics in business and practices of good corporate governance.	• The objective of this subject is to make the students more clear about the importance of ethics in business and practices of good corporate governance.
FINANCIAL ACCOUNTING AND COSTING	• To give the practical knowledge of accounting to the students.	• To make the students competent in preparation of Accounts for the Business Entities.
MARKETING MANAGEMENT	• The objective of this subject is to develop a basic understanding about the Marketing Management.	• The objective of this subject is to develop a basic understanding about the Marketing Management.
PRACTICALS ON WEB DESIGNING & PUBLISHING	• To understand the basics of web designing with the help of small real life examples.	• To understand the basics of web designing with the help of small real life examples.
PRACTICALS ON MANAGEMENT- "LEARNINGS FROM BUSINESS LEADERS"	• To provide an opportunity to the students to 'learn by example' from great leaders belonging to the business world.	• To provide an opportunity to the students to 'learn by example' from great leaders belonging to the business world.

S.Y.BBA SEM-III

Subject Name	Objectives	Outcomes
MATHEMATICS AND STATISTICS FOR MANAGERS	• To impart the required knowledge of Mathematics and statistics for managerial activities among students.	• To impart the required knowledge of Mathematics and statistics for managerial activities among students.
CORPORATE ACCOUNTING & COSTING	 To give the Basic understanding of Corporate Accounting and Costing. To make familiarize with the knowledge of Issue of shares, Redemption of preference shares and redemption of debentures. 	• To understand how to prepare the cost sheet, store ledger and calculation of Material and Labour remuneration.
BUSINESS & CORPORATE LAWS	• To acquaint the students with the Fundamental Acts of Business Law such as Contract Act, Sales of Goods Act and Negotiable Instruments.	• To give the knowledge about Incorporation, Procedures, documentation & Management of company.
MANAGEMENT OF SMALL SCALE INDUSTRIES	• The objective of this subject is to enable the students to understand various aspects in the management of small scale industrial units.	• The objective of this subject is to enable the students to understand various aspects in the management of small scale industrial units.
MANAGEMENT INFORMATION SYSTEMS & ERP	• To create an awareness of the role of information systems in business and to get an introduction to management information system.	• To create an awareness of the role of information systems in business and to get an introduction to management information system.
PRACTICALS ON MANAGEMENT OF SMALL SCALE INDUSTRIES	• The objective of this subject is to enable the students to understand the practical aspects of working in DIC, MIDC and Banks.	• The objective of this subject is to enable the students to understand the practical aspects of working in DIC, MIDC and Banks.
PRACTICALS ON ADVANCED EXCEL	• To study the formatting and practical applications of Microsoft Office Excel by using different features.	• To study the formatting and practical applications of Microsoft Office Excel by using different features.

S.Y.BBA SEM-IV

Subjet Name	Objectives	Outcomes
BUSINESS RESEARCH METHODS	• To develop a sound conceptual framework for understanding research in management.	• To develop a sound conceptual framework for understanding research in management.
DIRECT & INDIRECT TAXES IN INDIA	 Awareness about basic concepts of Total Income Tax Calculations. Ability to calculate Income from Salary, House Property and Business/Profession. 	• Basic understanding of indirect taxation including VAT (Sales Tax) and Service Tax and recently adopted GST.
HUMAN RESOURCE MANAGEMENT	• The course aims to provide inputs to the students regarding importance of HRM and its concepts, principles and various functions.	• The course aims to provide inputs to the students regarding importance of HRM and its concepts, principles and various functions.
PRODUCTION & MATERIALS MANAGEMENT	• To develop understanding of production and materials management.	• To develop understanding of production and materials management.
FINANCIAL MANAGEMENT	• To understand the Concept of Financial Management.	• To enable the students to acquire necessary skills to deal in Financial and Managerial Techniques.
PRACTICALS ON TALLY ERP	• To make the student competent in Business Accounting and Preparation of Financial statement in Tally ERP.	• To make the student competent in Business Accounting and Preparation of Financial statement in Tally ERP.
PRACTICALS ON TAX BASE SOFTWARE	• To study how to calculate the tax by using Tax Base Software and use it actual business.	• To study how to calculate the tax by using Tax Base Software and use it actual business.

T.Y.BBA SEM-V

Subject Name	Objectives	Outcomes
INTERNATIONAL BUSINESS MANAGEMENT ENTREPRENEURSHIP	 The objective of this subject is to develop a basic understanding about the International Business Management. To make the student understand 	 The objective of this subject is to develop a basic understanding about the International Business Management. To make the student understand
DEVELOPMENT	the concept & importance of Entrepreneurship and facilitate generation of young entrepreneurs.	the concept & importance of Entrepreneurship and facilitate generation of young entrepreneurs.
CASE STUDIES IN MANAGEMENT	 To enhance analytical skills of students and to depict thorough knowledge of the subject and develop decision making abilities. To Increase the understanding of what managers should and should not do in guiding a business to success. 	 To identify strategic issues that need to be addressed, evaluating strategic alternatives, and formulating workable plans of action. To gain in-depth exposure to different industries and companies, thereby acquiring something close to actual business experience.
BANKING AND INSURANCE	 To develop the capability of students for knowing banking concepts & operations. To give through knowledge of banking operations 	• To introduce the concepts of Life & General Insurance, Transport Travel & Tourism.
CAPITAL, MONEY AND COMMODITY MARKET	• The objective of this subject is to develop a basic and working knowledge of the student about Stock Market, Money Market and Commodity Market.	• The objective of this subject is to develop a basic and working knowledge of the student about Stock Market, Money Market and Commodity Market.
PRACTICALS ON EMPLOYABILITY SKILLS-I	• To make a final year students capable of obtaining jobs.	• To make a final year students capable of obtaining jobs.
PRACTICALS BASED ON E-COMMERCE	• To make acquainted the students with Indian e-Commerce industry.	• To make acquainted the students with Indian e-Commerce industry.

T.Y.BBA SEM-VI

Subjet Name	Objectives	Outcomes
MANAGEMENT OF SERVICES	 The objective of this subject is to develop a basic understanding about Management of Services. 	• The objective of this subject is to develop a basic understanding about Management of Services.
FAMILY BUSINESS MANAGEMENT	• Develop a working knowledge in addressing concerns in management, governance and relational dynamics in family firms.	• Develop a working knowledge in addressing concerns in management, governance and relational dynamics in family firms.
CYBER SECURITY & LAWS	• To introduce the student with information security, security threats and control.	• To study and understand the basic concepts of cryptography, network security and cyber laws.
AUDITING PRACTICES	 To study the various concept of Audit, Auditing Techniques and tools to the students. To understand the compliance requirement of Auditing & Assurance Standards. 	• To study Auditing procedure of company & other entities and understand the importance of Audit Report.
INVESTMENT BANKING	 To develop the basic and working level knowledge of the students regarding stock market in India and across the world. 	• To provide the knowledge about Issues of Shares ,Mechanism and also about Financial and trading Institutions and regulatory body in Stock Market ,Stock Market History in World and In India.
PRACTICALS ON EMPLOYABILITY SKILLS-II	• To make a final year students capable of obtaining jobs.	• To make a final year students capable of obtaining jobs.
PROJECT REPORT BASED ON ELECTIVE GROUP	• To enhance analytical skills of students and to depict thorough knowledge of the domain subject and develop decision making abilities through study of various types of issues that need to be addressed, evaluating strategic alternatives and formulating remedial plans of action as recommendations.	• . To Increase the understanding of what managers should and should not do in guiding a business to success.

Department of B.C.A

F.Y.BCA SEM-I

Subjet Name	Objectives	Outcomes
FOUNDATION COURSE FOR MANAGERS.	• To study the fundamental Accounting concepts, terms, jargons and learn the process of recording of financial transactions in the books of Accounts.	• To develop the foundation for higher studies in the field of accounting.
COMPUTER FUNDAMENT AND NETWORKING	• To make students well familiar with computer and networking fundamentals.	• To make students well familiar with computer and networking fundamentals.
ESSENTIAL OF WEB DESIGN I	• To make students well familiar Internet and Web designing.	• To make students well familiar Internet and Web designing.
PROGRAMMING IN C	• Prepare students to acquire knowledge of programming using C. It is the precursor and inspiration for almost all of the most popular high-level languages available today.	• Prepare students to acquire knowledge of programming using C. It is the precursor and inspiration for almost all of the most popular high-level languages available today.
PRACTICAL ON COMPUTER & INTERNET	• To practically train students in using computer and internet.	• To practically train students in using computer and internet.
PRACTICAL ON WEB DESIGN-I	• To make students well familiar with internet and HTML Script.	• To make students well familiar with internet and HTML Script.
PRACTICAL ON C PROGRAMMING	• To practically train students in C programming language.	• To practically train students in C programming language.

F.Y.BCA SEM-II

Subjet Name	Objectives	Outcomes
FINANCIAL ACCOUNTING	 To give the practical knowledge of accounting to the students. To make the students competent in preparation of Accounts for the Business Entities. 	• To make the students competent in preparation of Accounts for the Business Entities
PROFESSIONAL COMMUNICATION	• To train students in strongly using communication skills in business and life.	• To impart basic communication skills among students.
ESSENTIAL OF WEB DESIGN II	• To make students well familiar with JavaScript and CSS	• To make students well familiar with JavaScript and CSS
PROGRAMMING IN C++	• To train students in programming using object oriented concepts with C++.	• To train students in programming using object oriented concepts with C++.
PRACTICAL ON PROFESSIONAL COMMUNICATION	• To impart basic communication skills among students.	• To impart basic communication skills among students.
PRACTICAL ON WEB DESIGN-II	• To make students well familiar with CSS and JavaScript.	• To make students well familiar with CSS and JavaScript.
PRACTICAL ON C++ PROGRAMMING	• To practically train students in programming in object oriented way using C++.	• To practically train students in programming in object oriented way using C++.

S.Y.BCA SEM-III

Subject Name	Objectives	Outcomes
MATHEMATICS AND STATISTICS FOR MANAGERS	• To impart the required knowledge of Mathematics and statistics for managerial activities among students.	• To impart the required knowledge of Mathematics and statistics for managerial activities among students.
MANAGEMENT INFORMATION SYSTEMS	• To impart the knowledge of MIS among students.	• To impart the knowledge of MIS among students.
JAVA PROGRAMMING	• To impart the knowledge of object oriented programming using java among students.	• To impart the knowledge of object oriented programming using java among students.
LINUX OPERATING SYSTEM.	 To make students understand the features of Linux operating system. To make students learn the components of Linux . 	• To learn basic Linux commands and printing Linux documents.
PRACTICAL ON JAVA	• To impart the knowledge of object oriented programming using java among students.	• To impart the knowledge of object oriented programming using java among students.
PRACTICAL ON LINUX	• To learn basic Linux commands and printing Linux documents.	• To learn basic Linux commands and printing Linux documents.
PRACTICAL ON TALLY ERP	• To practically train students in Accounting using Tally ERP.	• To practically train students in Accounting using Tally ERP.

S.Y.BCA SEM-IV

Subjet Name	Objectives	Outcomes
INTRODUCTION TO INFORMATION SYSTEM AUDIT	• To impart the knowledge and importance of Information System and Audit among Students for Quality Management.	• To impart the knowledge and importance of Information System and Audit among Students for Quality Management.
RDBMS	• To prepare students in using and managing Relational databases and its applications.	• To prepare students in using and managing Relational databases and its applications.
C#.NET	• To impart the knowledge of object oriented programming using C# among student.	• To impart the knowledge of object oriented programming using C# among student.
DATA STRUCTURE	• To impart the knowledge of data structure among student.	• To impart the knowledge of data structure among student.
PRACTICAL ON C#.NET	• To practically train students in programming in C#.NET.	• To practically train students in programming in C#.NET.
PRACTICAL ON RDBMS	• To prepare students in using and managing Relational databases and its applications.	• To prepare students in using and managing Relational databases and its applications.
PRACTICAL ON DATA STRUCTURES	• To practically train students in Data structure using C++.	• To practically train students in Data structure using C++.

T.Y.BCA SEM-V

Subjet Name	Objectives	Outcomes
ENTREPRENEURSHIP DEVELOPMENT	• To impart the knowledge of Entrepreneurship Development among students.	• To impart the knowledge of Entrepreneurship Development among students.
CYBER SECURITY	• To impart the knowledge of Cybercrime and cyber security among students.	• To impart the knowledge of Cybercrime and cyber security among students.
ASP.NET TECHNOLOGY	• To impart the knowledge of web development in students in by using ASP.NET.	• To impart the knowledge of web development in students in by using ASP.NET.
SOFTWARE ENGINEERING	• The course has been designed to provide a foundation of systems principles and an understanding of System development	• The course has been designed to provide a foundation of systems principles and an understanding of System development.
PRACTICAL ON ASP.NET	• To practically train students in developing web pages using ASP.NET.	• To practically train students in developing web pages using ASP.NET.
PRACTICAL ON CASE TOOL WITH MS-VISIO AND SOFTWARE TESTING	• To practically train students in using CASE tools for designing real time system diagrams.	• To practically train students in using CASE tools for designing real time system diagrams.
FIELD WORK ON IT PROJECT ASSESSMENT	• To understand the issues in implemented IT project by assessing it using research methodology.	• To understand the issues in implemented IT project by assessing it using research methodology.

T.Y.BCA SEM-VI

Subjet Name	Objectives	Outcomes
E-COMMERCE & M - COMMERCE	• To impart the knowledge of e- Commerce & m - Commerce among students.	• To impart the knowledge of e- Commerce & m - Commerce among students.
CLOUD COMPUTING	• This course will help the students to get familiar with cloud computing fundamentals, architecture, services, implementation and deployment techniques etc.	• This course will help the students to get familiar with cloud computing fundamentals, architecture, services, implementation and deployment techniques etc.
ANDROID APPLICATION DEVELOPMENT	• The use of mobile communication and android based applications are increasing day by day. It is therefore necessary for students to know that how mobile communication works and how to build mobile apps for android operating system.	• This course covers the necessary concepts which are required to understand mobile communication and to develop Android Applications.
SERVER SIDE SCRIPTING USING PHP	• To impart the knowledge of web development in students in by using PHP.	• To impart the knowledge of web development in students in by using PHP.
PRACTICAL ON ANDROID & PHP	• To practically train students in developing Mobile application and web pages using PHP.	• To practically train students in developing Mobile application and web pages using PHP.
PRACTICAL ON EMPLOYABILITY SKILLS	• To practically train students in developing required employability skills.	• To practically train students in developing required employability skills.
PROJECT REPORT & VIVA	• To prepare students to use applications of the theory and practical learned during the course.	• To prepare students to use applications of the theory and practical learned during the course.

Department of M.M.S.

MMS SEM-I

Subject Name	Objectives	Outcomes
PRINCIPLES OF MANAGEMENT	• To acquaint the students with the basic Business Management concept & process.	• To acquaint the students with the basic Business Management concept & process.
FINANCIAL ACCOUNTING	• To prepare students about important financial accounting concepts and understand usage of Tally ERP software.	• To prepare students about important financial accounting concepts and understand usage of Tally ERP software.
WEB DESIGNING AND WEB AUTHORING TOOLS	• To prepare students in web designing using various web tools.	• To prepare students in web designing using various web tools.
ICT FUNDAMENTALS & OFFICE AUTOMATION	• To prepare students in understanding ICT basics and to make aware of Office automation using MS- Office.	• To prepare students in understanding ICT basics and to make aware of Office automation using MS- Office.
PROGRAMMING IN C	• To Train students with basic concepts of programming using C.	• To Train students with basic concepts of programming using C.
LAB I-PRACTICAL ON TALLY ERP & WEB DESIGNING	 Tally is designed to impart knowledge regarding concepts of financial accounting. Tally is an accounting package that is used for learning to maintain accounts. It is very useful for any students to get placements in different offices as well as companies in accounts departments. 	 Tally is designed to impart knowledge regarding concepts of financial accounting. Tally is an accounting package that is used for learning to maintain accounts. It is very useful for any students to get placements in different offices as well as companies in accounts departments.
LAB II-PRACTICAL ON OFFICE AUTOMATION & C PROGRAMMING	 It is used to digitally create, store, manipulate, and relay office information and data, needed for accomplishing basic tasks and goals. Office automation makes it possible for business organizations to improve their productivity and recognize easier ways to do business in profits. 	 Office automation makes it possible for business organizations to improve their productivity and recognize easier ways to do business in profits. To Train students with basic concepts of programming using C.

MMS SEM-II

Subject Name	Objectives	Outcomes
COMMUNICATION SKILLS	 To study the personality development of individuals in the micro perspective. To understand communication cycle. To provide employability skills. 	 To know the process of Interview Techniques& Group discussion. To understand the needs and benefits of written communication.
MANAGEMENT INFORMATION SYSTEM	• To develop the knowledge about process of MIS and its application to the business for decision making process.	• To develop the knowledge about process of MIS and its application to the business for decision making process.
SYSTEM ANALYSIS AND DESIGN	• The course has been designed to provide a foundation of systems principles and an understanding of System development.	• The course has been designed to provide a foundation of systems principles and an understanding of System development.
RDBMS	• To prepare students in using and managing databases.	• To prepare students in using and managing databases.
OBJECT ORIENTED PROGRAMMING USING C++	• To train students in programming using object oriented concepts with C++.	• To train students in programming using object oriented concepts with C++.
LAB III-PRACTICAL ON RDBMS	• To prepare students in using and managing databases.	• To prepare students in using and managing databases.
LAB IV- PRACTICAL ON C++	• To train students in programming using object oriented concepts with C++.	• To train students in programming using object oriented concepts with C++.

MMS SEM-III

Subject Name	Objectives	Outcomes
CRM & DIGITAL MARKETING	• To aware the students with the concepts of customer relationship management and digital marketing.	• To aware the students with the concepts of customer relationship management and digital marketing.
CYBER SECURITY AND IT ACT	• To introduce the student with information security, security threats and control.	• To study and understand the basic concepts of cryptography, network security and cyber laws.
GRAPHICS & ANIMATION	• To prepare students to acquire the required skills to create animations and graphics, this can be helpful in building commercial websites.	• To prepare students to acquire the required skills to create animations and graphics, this can be helpful in building commercial websites.

WEB SCRIPTING	• To impart the knowledge of	•	To impart the knowledge of
WITH PHP AND	Website development using PHP		Website development using PHP
MYSQL	among student.		among student.
C#.NET	• To impart the knowledge of object	•	To impart the knowledge of
PROGRAMMING	oriented programming using C#		object oriented programming
	among student.		using C# among student.
LAB V-PRACTICAL	• To practically train students in	•	To practically train students in
ON GRAPHICS &	Graphics using Flash and		Graphics using Flash and
ANIMATION & PHP	programming in PHP.		programming in PHP.
LAB VI-	• To practically train students in	•	To practically train students in
PRACTICAL ON	programming in C#.NET.		programming in C#.NET.
C#.NET			
PROGRAMMING			

MMS SEM-IV

Subject Name	Objectives	Outcomes
HUMAN RESOURCE MANAGEMENT	 To understand importance of Human Resource Management. To provide essential knowledge of important function of HRM. 	 To provide essential knowledge of important function of HRM. To get acquainted about latest trends & practices of HRM
E-COMMERCE AND M-COMMERCE	• To prepare students to acquire the knowledge of recent trends in e-commerce. Also students are prepared for website management which can helpful in industry.	• To prepare students to acquire the knowledge of recent trends in e-commerce. Also students are prepared for website management which can helpful in industry.
INTERNET COMPUTING WITH ASP.NET	• To prepare students to acquire knowledge of creating interactive websites using ASP.Net. The students will be ready to develop the dynamic commercial websites with the industry required latest technology.	• To prepare students to acquire knowledge of creating interactive websites using ASP.Net. The students will be ready to develop the dynamic commercial websites with the industry required latest technology.
JAVA PROGRAMMING	• To prepare students to acquire knowledge of programming language using Java. The students will be able to create applications in Java	• To prepare students to acquire knowledge of programming language using Java. The students will be able to create applications in Java
PROJECT WORK	• To achieve deliverables and assets, or more intangible objectives like	• To achieve deliverables and assets, or more intangible objectives like

	increasing productivity or motivation.	increasing productivity or motivation.
LAB VII- PRACTICAL ON ASP.NET	• To prepare students to acquire knowledge of creating interactive websites using ASP.Net. The students will be ready to develop the dynamic commercial websites with the industry required latest technology.	• To prepare students to acquire knowledge of creating interactive websites using ASP.Net. The students will be ready to develop the dynamic commercial websites with the industry required latest technology.
LAB VIII- PRACTICAL ON JAVA PROGRAMMING	• To prepare students to acquire knowledge of programming language using Java. The students will be able to create applications in Java	• To prepare students to acquire knowledge of programming language using Java. The students will be able to create applications in Java