Shri Sangameshwar Education Society, Solapur. Kannada Linguistic Minority Institute

Sangameshwar College, Solapur. Autonomous

NAAC Accredited with 'A' Grade (III cycle CGPA 3.39) Affiliated to Punyashlok Ahilyadevi Holkar Solapur University

Course Outcomes (Cos), Programme Specific Outcomes (PSOs) and Programme Outcomes (POs)

Course Title	Course Outcomes (Cos), Programme
	Specific Outcomes (PSOs)
B.A. III Semester V	1) Communicate effectively in spoken and
English for Communication-V (AECC-V)	written English.
(2211501)	2) Enhance his/her employability by
	applying his/her knowledge and
	expertise in verbal ability effectively.
B.A. III Semester V	1) Critically evaluate and appreciate
English-VII Introduction to Literary	literary discourses.
Criticism (2211511)	2) Create literary pieces which will add
	value to human existence.
B.A. III Semester V	1) Critically evaluate and appreciate
English-VIII British Literature (2211512)	literary discourses.
	2) Exhibit character traits comprising of
	universal values which will help him/her
	lead an effective and happy life.
B.A. III Semester V	1) Critically evaluate and appreciate
English-IX Indian English Literature	literary discourses.
(2211513)	2) Exhibit character traits comprising of
	universal values which will help him/her
	lead an effective and happy life.
B.A. III Semester V	1) Critically evaluate and appreciate
English-X Literatures in English (2211514)	literary discourses.
	2) Exhibit character traits comprising of
	universal values which will help him/her
	lead an effective and happy life.
B.A. III Semester V	1) Analyze the structure and function of
English-XI Structure and Function of	English language.
Modern English (2211515)	2) Communicate effectively in spoken
	and written English.
B.A. III Semester V	1) Enhance his/her employability by
Editing Skills (2211516)	applying his/her knowledge expertise in

Name of the Department: English

	verbal ability effectively.
B.A. III Semester VI	1) Communicate effectively in spoken and
English for Communication-VI (AECC-VI)	written English.
(2211601)	2) Enhance his/her employability by
	applying his/her knowledge and
	expertise in verbal ability effectively.
B.A. III Semester VI	1) Critically evaluate and appreciate
English-XII Introduction to Literary	literary discourses.
Criticism (2211612)	2) Create literary pieces which will add
	value to human existence.
B.A. III Semester VI	1) Critically evaluate and appreciate
English-XIII British Literature (2211613)	literary discourses.
	2) Exhibit character traits comprising of
	universal values which will help him/her
	lead an effective and happy life.
B.A. III Semester VI	1) Critically evaluate and appreciate
English-XIV Indian English Literature	literary discourses.
(2211614)	2) Exhibit character traits comprising of
	universal values which will help him/her
	lead an effective and happy life.
B.A. III Semester VI	1) Critically evaluate and appreciate
English-XV Literatures in English	literary discourses.
(2211615)	2) Exhibit character traits comprising of
	universal values which will help him/her
	lead an effective and happy life.
B.A. III Semester VI	1) Analyze the structure and function of
English-XVI Structure and Function of	English language.
Modern English (2211616)	2) Communicate effectively in spoken
	and written English.

Name of the Department: Marathi

Course Title	Course Outcomes (Cos), Programme Specific Outcomes (PSOs)
B.A. Marathi	Programme Specific Outcomes (PSOs)The student will be able toAfter successful completion of three year B.A.Marathi Programme, the graduate will be ableto:PSO1: Develop interest to appreciate beautyof language and literature.PSO2: Able to analyse critically the values oflife and literature.PSO3: Effectively Communicate and create inMarathi language.PSO1: भाषा आणि साहित्याचे आकलन आणि आस्वादन

	करतील. PSO2: साहित्याची समीक्षा करण्यास सक्षम झालेले असतील. PSO3: मराठी भाषेतून प्रभावी संवाद आणि कला निर्मिती करतील.
BA III Semester V OPTIONAL MARATHI-VII (2011521)	Course Outcomes (COs) : साहित्याचे स्वरूप आणि संकल्पना समजतील. १ भारतीय आणि पाश्चात्त्य साहित्य शास्त्रज्ञांनी सांगितलेल्या साहित्याच्या व्याख्या जाणतील. १ मराठी कादंबरीच्या वाटचालीचे स्वरूप समजेल. ३ साहित्याची लेखक आणि वाचकसापेक्ष अशी प्राचीन आणि आधुनिक विविध प्रयोजने स्पष्ट करता येतील. ४ साहित्यनिर्मितीची प्रक्रिया जाणतील. ५ साहित्यनिर्मितीच्या जनक कारणांचे नेमके स्थान स्पष्ट करतील. विद्यार्थी कादंबरीचे परीक्षण करू लागतील. ६ साहित्याच्या भाषेचे स्वरूप समजून आलेले असेल. साहित्य विचारांची संकल्पना समजून आल्याने त्याचे उपयोजन करण्याच्या क्षमता दिसून येतील.
BA III Semester V OPTIONAL MARATHI-VIII (2011522)	Course Outcomes (COs) The student will be able to १ भाषेचे स्वरूप आणि घटक यांची ओळख झालेली असेल. १ भाषिक व भाषेतर संप्रेषणाचे स्वरूप आणि कार्य समजले असेल. १ भाषिक व भाषेतर संप्रेषणाचे स्वरूप आणि कार्य समजले असेल. १ भाषा अभ्यासाच्या परंपरेची ओळख झाली असेल. १ भाषा अभ्यासाच्या परंपरेची जालत झाली असेल. १ भाषा अभ्यासाच्या परंपरेची जालत झाली असेल. १ भाषा अध्यासाच्या परंपरेची का जात झाली असेल. १ भाषा अध्र परिवर्तन का होते याचे आकलन झालेले असेल. १ भाषा त्र परिवर्तन का होते याचे आकलन झालेले असेल. १ भाषा त्र भाषी परिवर्तन का होते याचे आकलन झालेले असेल.
BA III Semester V OPTIONAL MARATHI-IX (2011523)	Course Outcomes (COs) The student will be able to १ मराठीचा उत्पत्तिविचार व उत्पत्तिकाळाचे ज्ञान झालेले असेल. २ मराठी भाषेतील आद्यग्रंथाची ओळख होऊन त्याचे महत्त्व जाणलेले आढळेल. ३ मराठी भाषेतील ग्रंथपरंपरेचा परिचय झालेला असेल. ४ विविध संप्रदायाच्या वाङ्मयाची व संप्रदाय विशेषांची नेमकी ओळख झालेली असेल. ५ महानुभाव संप्रदायाचे मराठी वाङ्मयाला मिळालेले योगदान विचारात घेतलेले जाणवेल. ६ वारकरी तथा भागवत संप्रदायाच्या आचार-विचार

	धर्माची ओळख झालेली दिसेल. ७ ज्ञानदेव, नामदेव आणि संतमेळ्याचे संप्रदाय, भाषा आणि वाङ्मयाला लाभलेले कर्तृत्व समजून आले असेल. ८ महानुभाव आणि वारकरी संप्रदायाचा प्रचार-प्रसार कोणी आणि कसा केला ते समजून आले असेल. ९ संप्रदाय, मराठी भाषा आणि वाङ्मयाला लाभलेले एकनाथ, तुकाराम यांचे कर्तृत्व कळले असेल. १० भाषा आणि साहित्याला महानुभाव आणि वारकरी साहित्याने समृद्ध केल्याचे कळून आलेले असेल. ११ वीरशैव मराठी वाङ्मयाची पूर्वपीठिका, स्वरूप आणि वैशिष्ट्ये समजतील. १२ मध्ययुगीन मराठी वाङ्मयाच्या इतिहासाची यथार्थ माहिती झाल्याचे आढळेल.
BA III Semester V OPTIONAL MARATHI-X (2011524)	Course Outcomes (COs) The student will be able to १ पारिभाषिक शब्दांचे स्वरूप, संकल्पना समजलेली असेल. २ पारिभाषिक शब्दांच्या संकलन, निर्माणासह उपयोजनाचे कौशल्य विकसित झालेले आढळून येईल. ३ ई - मराठी लेखनाचे ज्ञान व उपयोजनकौशल्य अवगत झाले असेल. ४ मुद्रितशोधनाचे स्वरूप आणि पद्धती समजून घेतल्याने प्रत्यक्ष उपयोजन करणे शक्य झाल्याचे आढळेल. ५ विविध क्षेत्रांतील भाषेच्या उपयोजनाचे स्वरूप व महत्त्व जाणतील.
BA III Semester V OPTIONAL MARATHI-XI (2011525)	Course Outcomes (COs) The student will be able to १ प्रामीण साहित्याच्या स्वरूपाची ओळख होईल. १ प्रामीण साहित्याच्या उगमासह वाटचाल लक्षात येईल. २ प्रामीण साहित्याच्या उगमासह वाटचाल लक्षात येईल. ३ द. तु. पाटील यांच्या प्रामीण लेखनाचा परिचय होईल. ४ 'चैत' या कादंबरीतील जीवन, भाषा आणि वाङ्मयीन वैशिष्ट्यांची ओळख झालेली असेल. ४ कादंबरी या साहित्य प्रकारांच्या स्वरूप आणि घटकांचे ज्ञान झाल्याने कादंबरी साहित्याच्या आस्वाद, आकलन आणि मूल्यमापनास साहाय्य झाल्याचे पाहायला मिळेल. ६ दलित साहित्याच्या स्वरूप वैशिष्ट्यांची आणि प्रेरणांची ओळख झालेली असेल. ७ वलित साहित्याच्या या स्वरूप वैशिष्ट्यांची आणि प्रेरणांची ओळख झालेली असेल. ७ वलित त साहित्याच्या उगम आणि वाटचालीची ओळख लक्षात येईल.

	 ८ भटक्या विमुक्त समाजातील किसन चव्हाण या लेखकाची वाङ्मयीनदृष्ट्या ओळख विचारात घेतलेली असेल. ९ 'आंदकोळ' हे भटक्या-विमुक्ताचे आत्मकथन असल्याने भटक्याविमुक्तांचे, उपेक्षितांचे जीवन समजतील. १० मराठी साहित्याच्या अनुभवाचे आणि भाषेच्या समृद्धीचे विस्तारलेले क्षितिज विचारात घेतलेले असेल.
BA III Semester VI OPTIONAL MARATHI-XII (2011621)	 Course Outcomes (COs) The student will be able to साहित्यातील रस संकल्पना समजतील. रससूत्राचे स्वरूप समजतील. काव्यानंदाचे स्वरूप आणि उत्पत्ती जाणतील. काव्यानंदाचे स्वरूप आणि उत्पत्ती जाणतील. काव्यानंदमीमांसेचेभान येईल. साहित्य आणि अन्य कलांमधील परस्परसंबंधांचे भान आलेले असेल. साहित्यमूल्ये समजतील. साहित्यमूल्ये समजतील. साहित्यविषयक विचार आणि जाणिवा अधिक परिपक्व झालेल्या आढळतील.
BA III Semester VI OPTIONAL MARATHI-XIII (2011622)	Course Outcomes (COs) The student will be able to नाच्या स्वरूपाची सर्वांगीण ओळख झाली असेल. विचारांचे ज्ञान घेतले असेल. बोलीची संकल्पना समजून आल्याने त्यांच्या स्वरूपातील तलेले असेल. भाषांच्या परिणामांचा विचार समजल्याने भाषिक विचार लेली आढळेल. धीची जाण वाढलेली असेल.
BA III Semester VI OPTIONAL MARATHI-XIV (2011623)	Course Outcomes (COs) The student will be able to १ पंडिती वाङ्मयाच्या प्रेरणा आणि स्वरूपाचा परिचय झालेला आढळेल. २ पंडिती वाङ्मयातील ग्रंथकार आणि ग्रंथपरंपरेची ओळख झालेली असेल. ३ शाहिरी वाङ्मयाच्या प्रेरणा आणि स्वरूपाचा परिचय झालेला आढळेल. ३ शाहिरी वाङ्मयाच्या प्रेरणा आणि स्वरूपाचा परिचय झालेला आढळेल. ४ मध्ययुगीन शाहिरांच्या अस्सल मराठमोळ्या वाङ्मयीन योगदानाचे महत्त्व जाणून घेतलेले लक्षात येईल. ५ बखर वाङ्मयाच्या प्रेरणा व स्वरूपाचा बोध होऊन या वाङ्मयाचे ऐतिहासिक महत्त्व लक्षात घेतील.

	 ६ अन्य संप्रदायांच्या कार्याची, आचार-विचारधर्माची आणि त्यांच्या वाङ्मयीन कामगिरीची यथार्थ ओळख झालेली आढळेल. <i>मध्ययुगीन वाङ्मयाच्या इतिहासाचे यथार्थ आकलन</i> झाले असेल.
BA III Semester VI OPTIONAL MARATHI-XV (2011624)	 Course Outcomes (COs) The student will be able to जाहिरात कलेचे तंत्र व मंत्र समजून आल्याचे आढळेल. जाहिरातीची कला अवगत होत असल्याचे दिसून येईल. निवेदन कौशल्याचे ज्ञान आणि भान मिळाल्याने प्रत्यक्ष निवेदन कौशल्याचे ज्ञान आणि भान मिळाल्याने प्रत्यक्ष निवेदन कौशल्याचया विकासाला गती मिळत असल्याचे दिसेल. ललित साहित्यकृतीचे तथा ग्रंथाचे वाङ्मयीन परीक्षण करण्याचे कौशल्य आत्मसात झाल्याचे दिसेल. सर्जनशील लेखनासंबंधी आवड निर्माण होईल आणि अशा लेखनास प्रवृत्त झालेले दिसतील.
BA III Semester VI OPTIONAL MARATHI-XVI (2011625)	 Course Outcomes (COs) The student will be able to श्वीवाद म्हणजे काय ते समजून घेतलेले असेल. श्वीवादी साहित्याची संकल्पना, स्वरूप आणि प्रेरणा यांचे आकलन झालेले दिसेल. श्वीवादी कथा साहित्याचा परिचय झालेला असेल. श्वीवादी कथा साहित्याचा परिचय झालेला असेल. ललिता गादगे या स्त्रीवादी लेखिकेचा वाङ्मयीन दृष्टिकोनातून परिचय झालेला असेल. 'प्राजक्ताची फुलं आणि दाह' या कथासंग्रहातील कथांचे स्त्रीवादी आणि वाङ्मयीन दृष्टिकोनातून परिचय झालेला असेल. 'प्राजक्ताची फुलं आणि दाह' या कथासंग्रहातील कथांचे स्त्रीवादी आणि वाङ्मयीन दृष्टिकोनातून अकलन करून घेतलेले असेल. मुस्लिम मराठी साहित्याच्या स्वरूप वैशिष्ट्यांची आणि प्रेरणांची ओळख झालेली असेल. मुस्लिम मराठी साहित्याचा उगम आणि विकास यासंबंधीची ओळख झालेली असेल. अजीम नवाज राही या मुस्लिम मराठी कवीची वाङ्मयीनदृष्ट्या ओळख विचारात घेतलेली दिसेल. 'व्यवहाराचा काळा घोडा' या कवितासंग्रहाचा मुस्लीम मराठी साहित्य प्रवाहाच्या दृष्टिकोनातून वाङ्मयीन आणि सांस्कृतिक परिचय करून घेतलेला असेल. मराठी साहित्यातील 'स्त्रीवादी साहित्य' आणि 'मुस्लिम

मराठी साहित्य' या दोन महत्त्वाच्या प्रवाहांचा अनेकांगाने विचार करणे शक्य झालेले पाहायला मिळेल.

Name of the Department: Hindi

Course Title	Course Outcomes (Cos), Programme
	Specific Outcomes (PSOs)
Programme: B.A. III Hindi	1 छात्र हिंदी भाषा और साहित्य का आकलन करके उनकी
	हिंदी के प्रति रुचि बढ़ेगी I
	2 छात्र साहित्य की आलोचना करने हेतु सक्षम बनेंगे I
	3 छात्र हिंदी भाषा से प्रभावशाली संवाद और साहित्य का
	निर्माण करने की क्षमता बढ़ेगी I
BA III Semester V	1 छात्रों को लेखक भगवान दास मोरवाल के व्यक्तित्व का
विशेष लेखक -भगवान दास मोरवाल (प्रतिनिधि	परिचय हो जाता है I
कहानियां) (2211531)	2 लेखक की बहुमुखी प्रतिभा का परिचय हो जाता है I
	3 लेखक की कहानियों की विषय व विद्या का पता अध्ययन
	हो जाता है I
	4 कहानियों के कला पक्ष और भाव पक्ष ज्ञात होता है I
BA III Semester V	1 छात्रों को साहित्य निर्मिती की प्रक्रिया का बोध हो जाता है
काव्यशास्त्र (2211532)	Ι
	2 छात्र साहित्य के भेद से अवगत हो जाते हैं I
	3 छात्र साहित्य की नई विधाओं से परिचित हो जाते हैं I
	4 छात्र गद्य तथा पद्य के तत्वों को समझ जाते हैं I
	5 छात्र रस अनुभूति की प्रक्रिया समझते हैं I
BA III Semester V	1 छात्रों को हिंदी साहित्य के इतिहास का यथार्थ दर्शन होता
आदिकालीन और मध्यकालीन हिंदी साहित्य का इतिहास	है
(संवत 1050 से 1900 तक) (2211533)	2 छात्रों को हिंदी साहित्य के संतों के विचारों का परिचय
	होता हैI
	3 आदिकालीन भक्तिकालीन रीतिकालीन परिस्थितियों का
	छात्रों को ज्ञान होता है I
	4 छात्रों के मन में हिंदी साहित्य के प्रति रुचि पैदा होती है I
BA III Semester V	1 छात्रों में प्रयोजनमूलक हिंदी के प्रति जिज्ञासा पैदा होती है I
प्रयोजनमूलक हिंदी (2211534)	2 छात्रों में आधुनिक प्रचार प्रसार माध्यमों के प्रति रुचि पैदा
	होती है I
	3 छात्रों में हिंदी के प्रति जागरूकता निर्माण होकर पत्राचार
	की भावना विकसित होती है I
	4 कार्यालय इन पत्राचार से छात्र अभिभूत होकर पत्राचार की
	अभिवृद्धि होती है I
	5 प्रयोजनमूलक हिंदी का व्यवहार में उपयोग करने से कार्य

	क्षमता में वृद्धि होती है I
BA III Semester V	1 छात्रों को हिंदी का सामान्य परिचय हो जाता है I
हिंदी भाषा (2211535)	2 छात्र भाषा के विविध रूपों से परिचित हो जाते हैं I
	3 छात्रों को हिंदी भाषा और लिपि के उद्भव और विकास का
	परिचय हो जाता है I
	4 छात्र भाषा की शुद्धता के प्रति जागृत हो जाते हैं I
	5 छात्र मानक हिंदी वर्तनी और व्याकरण से परिचित हो जाते
	हैं I
BA III Semester VI	1 छात्र हिंदी के प्रति सजग हो जाते हैं I
रोजगार परक हिंदी (2211536)	2 हिंदी में प्राप्त रोजगार के प्रति छात्र अवगत हो जाते हैं I
	3 रोजगार प्राप्ति के लिए छात्र सक्षम बन जाते हैं I
	4 नौकरी प्राप्त करने हेतु इच्छा शक्ति प्रबल बन जाती है I
BA III Semester VI	1 छात्रों को लेखक भगवान दास मोरवाल के व्यक्तित्व का
विशेष लेखक -भगवान दास मोरवाल पाठ्य पुस्तक-	परिचय हो जाता है I
शकुंतिका (उपन्यास) (2211631)	2 लेखक की बहुमुखी प्रतिभा का परिचय हो जाता है I
	3 लेखक के उपन्यास के विषय व विद्या का पता अध्ययन हो
	जाता है I
	4 उपन्यास के कला पक्ष और भाव पक्ष ज्ञात होता है I
BA III Semester VI	1 छात्र साहित्य के विविध उपकरणों को समझते हैं I
आलोचना (2211632)	2 छात्र गद्य के भेद से अवगत हो जाते हैं I
	3 छात्र साहित्य की नई विधाओं से परिचित हो जाते हैं I
	4 छात्र गधे के तत्व को समझ जाते हैं I
	5 छात्र आलोचना की प्रक्रिया से परिचित हो जाते हैं I
BA III Semester VI	1 छात्रों के मन में हिंदी साहित्य के प्रति जागरूकता पैदा होती
आधुनिक हिंदी साहित्य का इतिहास (सन 1900 से 2010	है I
तक)	2 छात्रों को आधुनिक हिंदी साहित्य परंपरा का बोध होता है I
(2211633)	3 छात्रों को आधुनिक रचनाकारों की सुरजनात्मकता का
	आकलन होता है I
	4 छात्रों को आधुनिक काल के विविध वादों का परिचय होता
	है I
BA III Semester VI	1 छात्र अनुवाद स्वरूप को अवगत करके दो भाषाओं का
व्यवहारिक हिंदी (2211634)	ज्ञान प्राप्त करते हैं I
	2 छात्र को विज्ञापन के क्षेत्र में नए रोजगार का अवसर प्राप्त
	होता है I
	3 छात्र अनुवाद और विज्ञापन में परिपूर्ण हो जाते हैं I
	4 छात्र पत्राचार से अवगत होने से पत्र व्यवहार में सरलता आ
	जाती है I
	5 छात्रों में प्रयोजनमूलक हिंदी का व्यवहार में उपयोग करना
	आसान हो जाता है I
	6 व्यवहारिक हिंदी से रोजगार में वृद्धि तथा कौशल्य का
	विकास होता है I
BA III Semester VI	1 छात्रों को वैज्ञानिक दृष्टि मिल जाती है I
भाषा विज्ञान (2211635)	

	2 छात्रों को भाषा विज्ञान का परिचय हो जाता है I
	3 छात्र ध्वनि उच्चारण प्रक्रिया से परिचित हो जाते हैं I
	4 छात्र भाषा की शुद्धता के प्रति जागृत हो जाते हैं I
	5 छात्र पद और अर्थ से परिचित हो जाते हैं I
MA I Semester I	1 छात्रों में हिंदी भाषा और साहित्य के प्रति रुचि निर्माण होती
Subject Title-DSC-1-Theory-1	है I
Paper Title-आधुनिक हिंदी गद्य	2 राजभाषा एवं राष्ट्रभाषा हिंदी का प्रचार प्रसार होता है I
	3 छात्रों में राष्ट्रीय एकात्मता की भावना में वृद्धि होती है I
	4 छात्रों में मानवतावादी और नैतिक मूल्यों का प्रसार होता है
	I
Subject Title-DSC-1-Theory-II	1 छात्रों में भाषा और भाषा विज्ञान की संदर्भ में जानकारी प्राप्त
Paper Title- भाषा विज्ञान	होगी I
	2 छात्र रूप विज्ञान से परिचित होंगे I
	3 छात्र वाक्य निर्मिती प्रक्रिया जान सकेंगे I
	4 छात्र अर्थ विज्ञान को समझ सकते हैं I
Subject Title-DSC-1-Theory-III	1 छात्र कामकाजी हिंदी से परिचित हो जाते हैं I
Paper Title- प्रयोजनमूलक हिंदी	2 मातृभाषा के विभिन्न रूपों से छात्र परिचित होते हैं I
	3 छात्र राजभाषा की संवैधानिक स्थिति से परिचित होते हैं I
	4 छात्र कार्यालय में प्रयुक्त हिंदी से अवगत होते हैं I
Subject Title-DSE-1-Elective(any one)	1 छात्र कबीर के विचारों से अवगत होते हैं I
Paper Title- साहित्यिक वर्ग -विशेष- रचनाकार कबीर	2 छात्र कबीर के दोहों की प्रासंगिकता से परिचित होते हैं I
	3 छात्र कबीर के पदों को समझ लेते हैं I
	4 छात्र कबीर की विद्रोही भावना को समझते हैं I
Subject Title-DSE-1-Elective(any one)	1 पत्रकारिता साहित्य से छात्र परिचित हो जाते हैं I
Paper Title- व्यावसायिक वर्ग पत्रकारिता 1	2छात्र पत्रकारिता साहित्य के विभिन्न विधाओं का अध्ययन
	करते हैं I
	3 छात्रों में पत्रकारिता विद्या में रुचि पैदा होती है I
	4 छात्र तत्कालीन भारतीय सामाजिक राजनीतिक सांस्कृतिक
	परिवेश से परिचित हो जाते हैं I
Subject Title-RM Major Related	1 छात्र अनुसंधानप्रविधि एवं प्रक्रिया से परिचित हो जाते हैं I
Paper Title- अनुसंधान प्रविधि और प्रक्रिया	2 अनुसंधान की पद्धति को समझ कर अनुसंधान करने हेतु
	छात्र सक्षम हो जाते हैं I
	3 साहित्यिक अनुसंधान के विभिन्न क्षेत्रों से छात्र अवगत हो
	जाते हैं I
	4 अनुसंधान के क्षेत्र में संगणक का महत्व एवं उसकी
	उपयोगिता को छात्र समझते हैं I
M.A. I Semester II	1 छात्र हिंदी गद्य साहित्य से परिचित हो जाते हैं I
Subject Title-DSC -IV(Mandatory) Theory	2 छात्र हिंदी गद्य साहित्य की विभिन्न विधाओं का अध्ययन
Paper Title- आधुानक हिंदा गद्य साहत्य	करते हैं I
	3 छात्रों में हिंदी गद्य विधा में रुचि पैदा होती है I
	4 छात्र तत्कालीन भारतीय सामाजिक राजनीतिक सांस्कृतिक
	परिवेश से परिचित हो जाते हैं I

Subject Title-DSC -V(Mandatory) Theory	1 छात्र भाषा और भाषा विज्ञान की संदर्भ में जानकारी प्राप्त
Paper Title- हिंदी भाषा एवं लिपि	करते हैं I
	2 छात्र रूप विज्ञान से परिचित होते हैं I
	3 छात्र वाक्य निर्मिती प्रक्रिया जान सकते हैं I
	4 छात्र अर्थ विज्ञान को समझ सकते हैं I
Subject Title-DSC -VI(Mandatory) Theory	1 छात्रसंगणक में हिंदी के अनुप्रयोग से अवगत हो जाते हैं I
Paper Title- संगणकीय हिंदी एवं व्यवहारिक हिंदी	2 छात्र मुद्रित माध्यम के सैद्धांतिक पक्ष से परिचित होते हैं I
	3 छात्र इलेक्ट्रॉनिक माध्यम रेडियो के लिए लेखन से अवगत
	होते हैं I
	4 छात्र टेलीविजन की जानकारी देते हुए उसमें किए जाने वाले
	लेखन से परिचित होते हैं I
Subject Title-DSE -II (Elective)Theory (any one)	1 सूर्यकां तत्रिपाठी निराला के कृतित्व छात्र समझ जाते हैं I
Paper Title- साहित्यिक वर्ग विशेष रचनाकार सूर्यकांत	2 सूर्यकांत त्रिपाठी निराला की कविता के अंतरंग से छात्र
त्रिपाठी निराला	अवगत हो जाते हैं I
	3 अनामिका काव्य संकलन के कविताओं से छात्र परिचित
	हो जाते हैं I
	4 नए पत्ते काव्य संकलन की कविताओं से छात्र परिचित हो
	जाते हैं I
Subject Title-DSE -II (Elective)Theory (any one)	1 पत्रकारिता साहित्य से छात्र परिचित हो जाते हैं I
Paper Title- साहित्यिक वर्ग विशेष रचनाकार सूर्यकांत	2 छात्र पत्रकारिता साहित्य की विभिन्न विधाओं का अध्ययन
त्रिपाठी निराला	करते हैं I
	3 छात्र में पत्रकारिता विद्या में रुचि पैदा होती है I
	4 छात्र तत्कालीन भारतीय, सामाजिक, राजनीतिक,
	सांस्कृतिक ,परिवेश से परिचित हो जाते हैं I
Subject Title- FP (Field Project)	1 छात्र अनुसंधानप्रविधि एवं प्रक्रिया से परिचित हो जाते हैं I
Paper Title- अनुसंधान परियोजना	2 अनुसंधान की पद्धति को समझकर अनुसंधान करने हेतु
	छात्र सक्षम हो जाते हैं I
	3 साहित्यिक अनुसंधान के विभिन्न क्षेत्रों से छात्र अवगत हो
	जाते हैं I
	4 अनुसंधान के क्षेत्र में संगणक का महत्व एवं उसकी
	उपयोगिता को छात्र समझते हैं I

Name of the Department: Geography

Course Title	Course Outcomes (Cos), Programme Specific Outcomes (PSOs)
Programme B.A. Geography	Programme Specific Outcomes (PSOs) The student will be able to 1. Understand the fundamental concepts and principles in various fields of Geography.
	 Understand the Structure, processes, stages, theories, models, in branches of Geography. Develop general view and importance of man

	 and environment relationship 4. Understand various past, present and future problems and overcome them through proper management, planning and sustainability. 5. Find out solutions by applying Geographic knowledge to most pressing issues for modern society 6. Provide career in education, commerce, industry, transport, tourism, Public and Private sectors. 7. Acquire maps and diagram making, use of Geographic equipment, field work, Social communication, report writing, data presentation skills. 8. Learn to prepare advanced maps based on GIS by using the remote sensing and GPS technique and application of computer.
Class: B.A. III Semester: V Title of the Paper (Course code): Regional Planning and Development (2211551)	 Course Outcomes (COs) The student will be able to Understand the importance of regional planning. Remember the concepts of region, regionalization, regional planning and development and detailed knowledge of region. Analyze indicators of measurement of development. Describe Growth Pole Model, Center place Theory and Growth Foci. Apply Model and Model of Economic Growth in Indian context.
Class: B.A. III Semester: V Title of the Paper (Course code): Urban Geography (2211552)	 Understand the importance of urban settlements through urban geography. Recognize the types of urban Settlements, Site and situations. Correlate human activities and urban development. Understand present urban problems and capable to handle of present problematic situations in urban areas. Develop as a good urban planner and environmental conservator.
Class: B.A. III Semester: V Title of the Paper (Course code): Population Geography (2211553)	 Understand signification of population geography along with source of demographic data. Compare the growth and distribution of world population.

	 Analyze the dynamics of population. Understand the implications of population composition in different regions of the world. Apply the contemporary issues in the field of population studies
Class: B.A. III Semester: V Practical Paper I Title of the Paper (Course code): Elements of Map Work and Weather Reports (2211654)	 Understand importance of map and map scale in Geography Understand the statistical application and interpretation Acquire knowledge about different types Projection Apply the contemporary issues in weather maps
Class: B.A. III Semester: V Practical Paper II Title of the Paper (Course code): Techniques in Geography (2211655)	 Understand importance of Statistical Data by Graph and Diagram Understand the application of computer in Geography Acquire knowledge about Remote Sensing GIS and GPS
Class: B.A. III Semester: V Title of the Paper (Course code): A CERTIFICATE COURSE IN QGIS	 Learn the concepts of open-source software Understand the interface of QGIS and its plug-ins Learn to fetch data into QGIS and work with table attributes Create maps using QGIS followed by its printing process
Class: B.A. III Semester: VI Title of the Paper (Course code): Evolution of Geographical Thought (2211651)	 Analyze the basic theme, ideas and approaches of geographic knowledge with relation to historical juncture, varying schools and era of their emergence. Understand about the debates in the geographical studies. Remember of recent trends in Geography.
Class: B.A. III Semester: VI Title of the Paper (Course code): Political Geography (2211652)	 Understand the history and development of political geography. Compare about evaluation of state and nation.

	 Analyze Geo-political theories. Explain problems and disputes of India with the most current research topics in political geography. 	
Class: B.A. III Semester: VI Title of the Paper (Course code): Social Geography (2211653)	 Understand the problems and prospects of society in India. Describe technological, occupational and migration changes of peoples in India. Recognize the social categories and their spatial distribution. Understand of social welfare wellbeing and solve social problem in India 	
Class: B.A. III Semester: VI Practical Paper III Title of the Paper (Course code): Topographical Maps and Statistical Methods (2211656)	 Understand Methods of Representation of Relief Describe Topographical Map Apply knowledge about Statistical methods and techniques 	
Class: B.A. III Semester: VI Practical Paper IV Title of the Paper (Course code): Surveying and Field Work (2211657)	 Understand proper field work for the collection of primary data to bring out grassroots realities Use of proper tools and surveying methods for measurement in context of collection and processing of data Know to prepare a project report based on data 	
Programme Title M.A. Geography	 Programme Specific Outcomes (PSOs) The student will be able to Understand the fundamental concepts and principles in various fields of Geography. Acquire maps and diagram making, use of Geographic equipment, field work, Social communication, report writing, data presentation skills. Find out solutions by applying Geographic knowledge to most pressing issues for modern society Learn to prepare advanced maps based on GIS by using the remote sensing and GPS technique and application of computer. Understand various past, present and future problems and overcome them through proper management, planning and sustainability. 	
Class: M. A. I Semester: I	Course Outcomes (COs) The student will be able to	

Title of the Paper (Course code): Geomorphology- I (2204101)	 Remember Meaning of Geomorphology and Development of Geomorphic Thoughts Understand Interior structure of the Earth Analyze various geological theories Evaluate Exogenetic and Endogenite forces
Class: M. A. I Semester: I Title of the Paper (Course code): Climatology- I (2204102)	 Compare difference between climate and weather Apply atmospheric knowledge in daily life analyze the climatic effect over human being Measure atmospheric disturbances
Class: M. A. I Semester: I Title of the Paper (Course code): Oceanography and Geohydrology (2204103)	 Understand the structure of ocean basin topography Calculate heat budget of ocean Illustrate factors affecting ocean currents Interpret the Surface & Subsurface water resources
Class: M. A. I Semester: I Title of the Paper (Course code): Economic Geography (2204105)	 Understand the basic concepts of economic geography Apply various locational theories for economic development Demonstrate the importance of World energy situation and Sources of energy Apply Models of transportation & transportation cost
Class: M. A. I Semester: I Title of the Paper (Course code): Representation of Landform and Topographical Map (2204106)	 Understand Definitions, Types of Maps, Indexing of Topographical Sheets Identify Landforms from Topographical Maps
Class: M. A. I Semester: I Title of the Paper (Course code): Study of Weather Maps (2204107)	 Understand the nature and sources of climatic data Interpret climatic isolines
Class: M. A. I Semester: I Title of the Paper (Course code): Analysis of Climatic Data (2204108)	 Understand the graphical analysis of climatic data Measures various climatic diagrams
Class: M. A. I Semester: I Title of the Paper (Course code): Analysis of Socio-Economic Data-I (2204109)	 Understand choropleth map Generate distributional maps
Class: M. A. I Semester: II Title of the Paper (Course code): Geomorphology- II (2204201)	 Recall evolution of Continents and Ocean basins Compare agencies of denudation and their work Analyze various slope development theories Apply Geomorphology and Recent Trends in Geomorphology

Class: M. A. I Semester: II Title of the Paper (Course code): Climatology- II (2204202)	 Classify the world in to climatic region Understand the role of climate in development of agriculture Designs the cloths according to climate Compare the climatic changes through geological past
Class: M. A. I Semester: II Title of the Paper (Course code): Population Geography (2204203)	 Understand the concept and significance of population geography Describe the factors affecting on the distribution and density of population Calculate change in population Interoperate the relationship of population and resources
Class: M. A. I Semester: II Title of the Paper (Course code): Geography of Maharashtra (2204206)	 Understand the Location, Physiographic divisions and climate of Maharashtra Record Minerals, Power Recourses and Industries of Maharashtra. Analyze Agriculture & Irrigation of Maharashtra Measure Maharashtra Transportation and Tourism
Class: M. A. I Semester: II Title of the Paper (Course code): Study of Landforms Analysis Techniques (2204207)	 Identify maps and drainage pattern and slops Construct various land form profile Explain the various methods of slope determination
Class: M. A. I Semester: II Title of the Paper (Course code): Statistical Techniques in Geography- I (2204208)	 Understand the concepts in statics and its importance in geography Calculate measures of central Tendency Apply Measure of Dispersion in research
Class: M. A. I Semester: II Title of the Paper (Course code): Statistical Techniques in Geography- II (2204209)	 Understand the various Relative Measurement methods Index Variability and Relative Variability Analyze correlation
Class: M. A. I Semester: II Title of the Paper (Course code): Analysis of Socio- Economic Data- II (2204211)	 Construct graphs Analyze relationship Variables

Name of the Department: Sociology

Course Title	Course Outcomes (Cos), Programme Specific Outcomes (PSOs)
B.A. Sociology BA-III Semester- V	Course Outcomes (COs) The student will

SOCIOLOGY-VII SOCIOLOGICAL THINKER: WESTERN AND INDIAN-I (2211581)	be able to1)Understanding the grand foundational themes of Sociology2) Application of theories and contents fromclassical Sociological theories developintellectual openness and curiosity
B.A. Sociology BA-III Semester- V SOCIOLOGY-VIII SOCIAL RESEARCH METHODS-I (2211582)	Course Outcomes (COs) The student will be able to 1)Students are introduced to the concept of conducting research, which is inclusive of formulating research designs, method and analysisof data 2)The thrust of the course is on empirical r easoning, understanding andanalysis of soci alreality, which is integral to the concept s of quantitative research
B.A. Sociology BA-III Semester- V SOCIOLOGY-IX SOCIAL DEMOGRAPHY-I (2211583)	Course Outcomes (COs) The student will be able to 1)Demonstrate a knowledge of key concepts i n and different approaches to population stud ies 2)Recognise the relations between population and social groups and processes by linking
B.A. Sociology BA-III Semester- V SOCIOLOGY-X INDUSTRIAL SOCIOLOGY-I (2211584)	Course Outcomes (COs) The student will be able to 1)Understanding work in its social aspects su ch as gendered work and unpaid work, as diff erentfrom its better known economic dimensi on 2)Understanding work in its global dimensio ns, including the mutual relation between wo rk inunderdeveloped societies and that in dev eloped ones, thus bringing out the importanc e of thecomparative perspective in the study of work
B.A. Sociology BA-III Semester- V SOCIOLOGY-XI RURAL AND URBAN SOCIETY-I (2211585)	Course Outcomes (COs) The student will be able to 1)Students understand the characteristics of rural society, social institutions, culture, social values and relevance in Agricultural

	Extension 2)Understanding work in its global dimensio ns, including the mutual relation between wo rk inunderdeveloped societies and that in dev eloped ones, thus bringing out the importanc e of thecomparative perspective in the study of work
B.A. Sociology BA-III Semester- V CASE STUDY (2211586)	Course Outcomes (COs) The student will be able to 1)Students will understand the nature of case study research, recognizing it as an in- depth investigation of a particular individual, group, or phenomenon within its real-life context. And various sources for collecting data in case study research, such as interviews, observations, documents, and artefacts. the differences between these two research approaches, and an understanding of their respective strengths and limitations 2)Case study research and its planning process provide students with a deeper understanding of qualitative research methods and their application in real-life contexts. the diverse usages and advantages of case study research, such as providing detailed insights, exploring complex issues. and how case study research can contribute to theory-building by generating rich and nuanced descriptions that aid in developing and refining theoretical frameworks.
B.A. Sociology BA-III Semester- VI SOCIOLOGY-XII - SOCIOLOGICAL THINKER: WESTERN AND INDIAN-II (2211681)	Course Outcomes (COs) The student will be able to 1)Understanding the grand foundational them es of Sociology 2)Application of theories and contents from classical Sociological theories develop intellectual openness and curiosity
B.A. Sociology BA-III Semester- VI SOCIOLOGY-XIII - SOCIAL RESEARCH METHODS- II (2211682)	Course Outcomes (COs) The student will be able to 1)Students are introduced to the concept of conducting research, which is inclusive

	of formulating research designs, methods and analysisof data 2)The thrust of the course is on empirical r easoning, understanding andanalysis of soci alreality, which is integral to the concept s of quantitative research
B.A. Sociology BA-III Semester- VI SOCIOLOGY-XIV - SOCIAL DEMOGRAPHY-II (2211683)	Course Outcomes (COs) The student will be able to 1)Demonstrate a knowledge of key concepts i n and different approaches to population stud ies 2)Recognise the relations between population and social groups and processes by linking
B.A. Sociology BA-III Semester- VI SOCIOLOGY-XV - INDUSTRIAL SOCIOLOGY-II (2211684)	Course Outcomes (COs) The student will be able to 1)Understanding work in its social aspects su ch as gendered work and unpaid work, as diff erentfrom its better known economic dimensi on 2)Understanding work in its global dimensio ns, including the mutual relation between wo rk inunderdeveloped societies and that in dev eloped ones, thus bringing out the importanc e of thecomparative perspective in the study of work
B.A. Sociology BA-III Semester- VI SOCIOLOGY-XVI - RURAL AND URBAN SOCIETY-II (2211685)	Course Outcomes (COs) The student will be able to 1)Students understand the characteristics of rural society, social institutions, culture, social values and relevance in Agricultural Extension 2)Understanding work in its global dimensio ns, including the mutual relation between wo rk inunderdeveloped societies and that in dev eloped ones, thus bringing out the importanc e of thecomparative perspective in the study of work

Name of the Department: Economics

Course Title	Course Outcomes (Cos), Programme Specific Outcomes (PSOs)
Programme BA III Economics	 Programme Specific Outcomes (PSOs) The student will be able to Apply the knowledge of economics in their own business decision making and for the personal purposes. To get the knowledge in cracking various competitive exams.
Course Titles: MICRO ECONOMICS –I Class Semester V Title of the Paper (2211571)	 Course Outcomes (COs) The student will be able to 1) Understand the basics of economics. 2) Understand the theories related to Micro economics.
Course Titles: MICRO ECONOMICS –II Class Semester VI Title of the Paper (2211671)	 Course Outcomes (COs) The student will be able to 1. Understand the basics concepts of markets. 2. Understand the theories related to various markets
Course Titles: MACRO ECONOMICS-I Class Semester V Title of the Paper (2211572)	 Course Outcomes (COs) The student will be able to 1. Develop and understand study of the Macro Economicanalysis. 2. Compare and construct the study of Micro economics and Macroeconomics.
Course Titles: MACRO ECONOMICS-II Class Semester VI Title of the Paper (2211672)	 Course Outcomes (COs) The student will be able to 1. Develop an understanding study of the trade cycles. 2. Develop awareness on the various concepts of economic growth.
Course Titles: HISTORY OF ECONOMIC THOUGHT-I Class Semester V Title of the Paper (2211573)	 Course Outcomes (COs) The student will be able to 1.Develop awareness on the various new developed economic thoughts. 2. Ability to compare and contrast classical and modern thoughts.
Course Titles: HISTORY OF ECONOMIC THOUGHT-II	Course Outcomes (COs) The student will be able to

Class Semester VI Title of the Paper (2211673)	 Develop an understanding of the history of economics. Develop awareness on the various new developments of economics thoughts.
Course Titles: ECONOMICS OF DEVELOPMENT-I Class Semester V Title of the Paper (2211574)	Course Outcomes (COs) The student will be able to 1. develop an understanding of the economic growth and development, factors affecting economic environment.
	2. Ability to develop awareness on the various new concepts of developments-agriculture, industry, services, banking, etc.
Course Titles: ECONOMICS OF DEVELOPMENT-II Class Semester VI Title of the Paper (2211674)	Course Outcomes (COs) The student will be able to 1. Ability to compare and contrast internal and external sources of finance.
	2. help the students to prepare for varied competitive examinations.
Course Titles: AGRICULTURAL ECONOMICS- I Class Semester V Title of the (2211575)	 Course Outcomes (COs) The student will be able to 1.Ability to develop an understanding of the role of agriculture in rural economy. 2.Ability to develop awareness on the various new developments in agriculture field.
Course Titles: AGRICULTURAL ECONOMICS- II Class Semester VI Title of the (2211675)	Course Outcomes (COs) The student will be able to 1. Ability to develop an understanding of the agricultural economy.
	2.At the end of the course, the student should be able to discuss and debate on the various issues and challenges facing in the Agricultural development during New Economic Policy.
Course Titles: ADD ON COURSE - FINANCIAL MARKETS Class Semester V	Course Outcomes (COs) The student will be able to 1.Ability to develop an understanding of Financial Markets. 2.Ability to develop awareness on the

Name of the Department: Psychology

Experimental	Programme Specific Outcomes (PSOs)
Psychology	The student will be able to
	1 students able to understand the perceptual process, Learning and
	memory process in experimentation
	2. student can learn process of experimentation
Social Psychology	1. Able students understand nature of social psychology
	2. Identify the cognitive process, attitudes, prejudice and human
	aggression.
Abnormal	1. Able the student with concept of abnormal behavior.
Psychology	2. know the various types, causes and treatment of psychological
	disorders
Psychological	1. able student to acquaint with tests,
Testing	2. utilize testing process and characteristics of test
Psychological	1. Able to design of Psychological Experiments.
Practicum	2. Learn student use of elementary statistical technique.
Cognitive	1. able student understand to Perceptual process in cognition 2. Identify
Psychology	Memory and Reasoning process in cognition.
Psychology of	1 identify the Student with Positive Emotions, Personal Goals and well-
Well-Being	Being 2. Able to understand Psychology and Well-Being and
	Happiness
Counseling	1.learn to basic concepts, process and techniques counseling. 2. identify
Psychology	the field of Counseling
Psychological	1. Learn to Develop the ability to use various psychological tests in

Assessment	various situations 2. prepare the use of knowledge psychological test in various domain
Psychology	1. Able to experience to student in use of inferential statistic technique
Practical – Tests	and administering scoring and interpreting test
	2. Able to undertake a small scale research project

Name of the Department: Chemistry

Course Title	Course Outcomes (Cos), Programme
	Specific Outcomes (PSOs)
Programme: B.Sc. Chemistry	 Demonstrate, solve and an understanding of major concepts in all disciplines of chemistry. Solve the problem and also think methodically, independently and draw a logical conclusion. Employ critical thinking and the scientific knowledge to design, carry out, record and analyze the results of chemical reactions. Create an awareness of the impact of chemistry on the environment, society and development outside the scientific community. Find out the green route for chemical reaction for sustainable development. To inculcate the scientific temperament in the students and outside the scientific community. Use modern techniques, decent equipment's and Chemistry software's.
B.Sc. III Semester-V Paper- IX Physical Chemistry (DSE-1A)	 Define the terms in phase equilibria such as- phase, components, degree of freedom, one / two component system, phase rule, etc. Explain eutectic system for desilverisation of silver- lead system. Apply Nernst equation for electrode and cell potentials in terms of activities. Determine of the thermodynamic parameters such as ΔG, ΔH and ΔS. Differentiate between thermal and

	photochemical processes.
	• Identify reasons for high and low
	quantum yield.
	• Draw Jablonski diagram for qualitative
	description of fluorescence and
	phosphorescence.
B.Sc. III Semester-V	Define Jahn Teller Distortion.
Paper- X Inorganic Chemistry (DSE-2A)	• Apply crystal field theory and
	molecular orbital theory to complexes.
	• Define the terms Homoatomic and
	Heteroatomic Polymers.
	• Explain the role of nutrient in plant
	growth.
	Draw the structures of Metallonorphyring
	Differentiate between baemoglobin
	and myoglobin.
B.Sc. III Semester-V	Determine structure of organic
Paper- XI Organic Chemistry (DSE-3A)	compound from given spectral data.
	Recall IR functional group frequency
	values and apply them appropriately.
	• Summarize the stepwise solution to
	combined spectral problems.
	• Write the mechanism of given
	reaction.
	Predict the products of learned reactions
	 Describe role of various reagents in in
	different Organic transformations.
	• Recall the terminologies of retro
	synthesis and apply them appropriately
	not synthesis of common organic
B Sc III Semester-V	 Define different terms in colorimetry
Paper- XII Analytical and Industrial	such as radiant power transmittance
Physical Chemistry (DSE-4A-I)	absorbance, molar, Lamberts Law,
	Beer's Law, molar absorptivity
	• Apply colorimetric methods of
	analysis to real problem in analytical
	laboratory.
	• Explain construction and working of
	Evploin Wheatstone buides mineir 1-
	for conductometric titrations
	 Differentiate the nature of graphs by
	potentiometric titration.
	• Develop the electroplating techniques
	for the metals.
	• Determine the element present in

	flame photometry.
	• Classify the qualitative and
	quantitative nature of element present
	in flame photometry.
	• Apply the electroplating equipment for the deposition of metals.
	• Detection of element by Atomic
	absorption spectroscopy.
B.Sc. III Semester-V Skill Enhancement course	• Drawing the structures, reactions and their stepwise mechanism through Chemdraw
	 Predicting H1-NMR and C13-NMR
	spectra of unknown compounds through Chemdraw software
	Performing analysis (Molecular
	weight, elemental analysis, empirical
	formula) along with physical
	properties such as m.p/b.p
	Correctly predicting IUPAC
	Nomenclature
	• Processing the analytical data of
	Chemistry in excel.
	• Plotting the experimental data of
	chemistry practical in Origin software.
	• Importing the numerical data through
	in DNC IDC IDEC Ditmon Tiff ato
P.S. III Somoston VI	Apply selection rule of retational
PAPER-XIII.	• Apply selection fulle of folational spectra for diatomic molecules
PHYSICALCHEMISTRY(DSE-1B)	 Determine bond length of diatomic
	molecule.
	• Determine force constant of
	vibrational diatomic molecules.
	• Solve numerical on spectroscopy.
	• Explain azeotropic and zeotropic of
	Eleberate maximum and minimum
	Elaborate maximum and minimum partially miscible liquid pairs
	 Distinguish criteria of thermodynamic
	spontaneity.
	• Derive law of mass action, Van't Hoff
	Isotnerm and isocnore.
	• Derivation of Arrhenius equation and
	granhically
	 Derivations of collision theory and
	transition state theory of bimolecular
	reaction and comparison.
	• Solve the problem based on third order

	equations.
B.Sc. III Semester-VI	• Predict the difference between valence
PAPER-XIV: INORGANIC CHEMISTRY	and conduction band.
(DSE-2B)	• Apply SN1 and SN2 reactions to
	appropriate complexes.
	• Define the trans effect in complexes.
	• Explain the various methods for the
	synthesis of trans uranic elements.
	• Draw the structures of allotropes of carbon
	• Draw the structures of carbides,
	borazine and diborane.
	• Differentiate between metals,
	semiconductors and superconductors.
	• Discuss the Band theory.
	Classify between intrinsic and
	extrinsic semiconductors.
B.Sc. III Semester-VI	• Explain classification of heterocyclic
Paper - XV: Organic Chemistry (DSE-3B)	compounds synthesis and reactions of
	heterocyclic compounds like pyrrole,
	pyridine and quinoline.
	Draw different conformations of cyclohexane
	• Describe conformational analysis of
	cyclohexane.
	Differentiate stereoselective and
	stereospecific reactions.
	• Draw structures of carbohydrates like
	glucose, fructose, maltose, lactose,
	sucrose, starch and cellulose.
	• Explain confirmation of glucose.
	• Write inter conversion of glucose and
	fructose.
	• Describe synthetic routes to various
	synthetic dyes. Explain with s theory of
B Sc. III Semester VI	Classify drugs based on therapoutia
Paner-XVI: Analytical and Industrial	• Classify drugs based on merapeutic
Organic Chemistry (DSE-4B (I))	and produce synthesis and uses of
	some representative drugs
	• Explain the Manufacturing process of
	sugar and importance of byproducts of
	sugar industry
	• Describe various methods of
	classification of polymers, synthesis
	and applications of various polymers.
	• Discuss the need of green chemistry i.
	Summarize twelve principles of green
	chemistry ii. Explain advantages of

	anon abamistry iii List simple
	green chemistry III. List simple
	describe establishing routes for
	describe catalytic routes for
	sustainable developments and apply
	the knowledge of contents of
	principles of chemistry.
	• Categorize various agrochemicals in
	different types. Explain synthesis and
	uses of some representative
	agrochemicals.
B.Sc. III Semester-VI	• Developed the skill for handling
Physical Chemistry	instruments like potentiometer, PH-
	meter, colorimeter and determine
	dissociation constant.
	• Recall Lambert-Beer's law for CuSO4
	solution by colorimetrically.
	Determine critical solution
	temperature by phenol-water system.
	• Determine energy of activation by
	various order of reactions.
	Prepare various concentrations of
	buffer solutions.
	• Construct acid base titrations and
	determine the equivalence point
	graphically.
	Calculate atomic and molar
	refractivity.
Inorganic Chemistry	• Put the experiments of gravimetric
J	analysis, remove the interfering radical
	and determine the accurate weight and
	percentage of Ba, Fe and Ni from
	supplied sample.
	Recall Werner theory through
	preparation hexamine
	nickel(II)chloride complex, trioxalato
	aluminate(III),.
	• Determine the nature of complex salts:
	Inner or Outer orbital complex
	Calculate Oxidation State.
	Coordination number etc.
	• Determine the purity of commercial
	sample of milk/talcum
	powder/trioxalato aluminate(III) FAS
	and Boric acid.
	• Separate cations (Na+ Ca^{2+} M σ^{2+}
	Zn^{2+} and anions (Cl- SO42- CO32-)
	hy using Dowey-250 and Amberlite
	IR-120 respectively
	 Determine the total hardness of any
	Determine the total hardness of any

	kind of hard water with their BOD and
	COD values in ppm.
Organic Chemistry	 Separate the given binary Organic mixture and identify its components systemically. Estimate amount of sugar present in sugar solution. Estimate amount of nitro group present in m-nitro aniline solution. Estimate sap value of oil. Prepare the organic compound successfully by following given procedure. Separate the given binary Organic mixture and identify its components systemically.
M.Sc. Advanced Organic Chemistry-I (2294301) Paper Code: HCT 3.1	 Differentiate between different types of stereoisomers Classify between oxidizing, reducing and organic reagents Predict the accurate mechanism for various name reactions Assign the R, S and E/Z configuration to obtained reaction product Apply suitable/selective reagent for
	organic reactions
Organic Polymers (2294302) Paper Code: HCT 3.2	 Differentiate between natural and synthetic polymers Prepare polymers from using suitable monomer Apply the knowledge of various methods to prepare polymers. Predict the stepwise mechanism of polymerization. Able to classify the polymers based on their usage and physical properties.
Organic Spectroscopy (2294303) Paper Code: SCT-3.1	 Determine the structure from the provided structural data Differentiate between inorganic and organic spectroscopies Apply the theoretical knowledge of spectroscopy to determine the structure of unknown compounds. Calculate molecular weight by means of mass spectroscopy Assign the functional groups for the supplied frequency values

Green Chemistry (2294304) Paper Code	• Analyze a process and identify
SCT-3 2	narameters that make
	environmentally
	friendly/sustainable/green
	 Differentiate between chemical and
	green synthesis
	Analyze and compare
	chemical/industrial processes based
	on their relative "greenness".
	• Able to apply the knowledge of PTC
	for green synthesis.
Photochemistry and pericyclic reactions	• Differentiate between various types of
(2294305)	radiative and non-radiative processes.
Paper Code: OET-3.1	• Predict the stereochemistry of product
	of pericyclic reaction
	• Apply the knowledge Woodward-
	Hoffmann selection rules for
	pericyclic reactions.
	• Predict the stepwise mechanism of
	photochemical reaction.
Advanced Organic Chemistry -II	• Plan the synthesis of simple, complex
(2294401)	organic compounds by their own
Paper Code: HCT 4.1	using retrosynthetic approach
	• Differentiate between one functional
	group and two functional group
	disconnection.
	• Apply the knowledge of protection
	and deprotection in order to prepare
	targeted compound
	• Apply the principles of selectivity in
	synthesis
	• Use variety of key reaction for their
Hotoroovalia Compounds (2204402) Panor	applications in organic synthesis.
Code: HCT 4 2	• Predict the names of neterocyclic
Couc. ne 1 4.2	Differentiate between electron rich
	and deficient compounds
	 Apply the knowledge reaction
	mechanism for predicting the accurate
	synthetic mechanism of various
	heterocycles
Stereochemistry (2294403) Paper Code:	Relate the structure and medicinal
HCT 4.3	properties of drugs.
	• Differentiate between different types
	of stereoisomers, including
	enantiomers and diastereomers
	• Predict the accurate stereochemistry
	of products of asymmetric synthesis.
Medicinal Chemistry (2294404) Paper	Relate the structure and medicinal

Code: SCT-4.1	 properties of drugs. Differentiate between organic compounds and drugs
	 Apply the knowledge of drug metabolism and medicinal chemistry

Name of the Department: PHYSICS

Course Title	Course Outcomes (Cos), Programme
	Specific Outcomes (PSOs)
BSc-III: Semester-V	Unit 1. Students will represent, explain and
1)PHYSICS-IX MATHEMATICAL	apply vector theorems to differential
PHYSICS AND STATISTICAL PHYSICS	equation in different applications.
(Course Code: 2231521)	Unit 2. Students will explain orthogonal
	coordinate system, apply and extend it in to Cartesian, and Spherical polar, cylindrical coordinates. Unit 3. Students will study, analyze and apply the statistical concent of Maxwell
	Poltzmann Statistical Concept of Maxwell
	Statistics, and Formi Direc Statistics
	Unit 4. Students will emply Mexical
	Poltzmann Statistics, comprehend and annly
	to evaluate Molecular speeds
	Unit 5 Students will comprehend and apply
	the Bose Einstein
	Unit 6 Students will comprehend and apply
	the Fermi Dirac Statistics
PHYSICS-X SOLID STATE PHYSICS	Unit 1 Students will summarize the
(Course Code: 2231522)	crystalline and non-crystalline phases of the
(Course coue. 2251522)	solids
	Unit 2 Students will analyze the crystalline
	materials and reciprocal lattice.
	Unit 3. Students will interpret and apply
	free electron theory to metals to explain the
	electrical & thermal conductivities.
	Unit 4. Students will interpret the distinction
	between metals, semiconductors and
	insulators.
	Unit 5. Students will recall and justify the
	magnetism reversal with temperature
	Unit 6. Students will recall and rephrase the
	conductivity and superconductivity as one
	of the marvelous states of matter.
PHYSICS-XI CLASSICAL MECHANICS	Unit 1. Students will analyze and evaluate
(Course Code: 2231523)	the motion of particles and motion of a
	body.
	Unit 2. Students will apply Lagrangian

	formulation to investigate the different types
	of motions of a body under different
	constraints
	Unit 2 Students will engly and
	Unit 5. Students will analyze, apply and
	the motion of body in different coordinate
	systems.
	Unit 4. Students will interpret Hamilton's
	principle, deduce Lagrange's equations
	from Hamilton's principle.
	Unit 5. Students will interpret and apply
	principle of coupled oscillations to deduce
	frequency, energy and energy transfer in the
	coupled oscillatory systems.
	Unit 6 Students will interpret and apply
	Fuler's theorem Chassel's theorem and
	apply to the motion of different objects
	apply to the motion of unferent objects
DUVSICS VII NIJCI EAD DUVSICS	Linit 1. Students will define describe and
(Course Code: 2221524)	ount 1. Students will define, describe and
(Course Code. 2251324)	explain the ground state properties of nuclei,
	Comprehend Liquid Drop Widdel of
	Nucleus.
	Unit 2. Students will define, analyze and
	evaluate Q-value of nuclear reaction, derive
	and interpret nuclear reaction cross-section,
	differentiate and explain Pick-up and
	Stripping nuclear reactions.
	Unit 3. Students will appraise the need of a
	Particle Accelerator, State and explain the
	principle of phase stable orbit, principle,
	construction and working of particle
	accelerators like Cyclotron and Betatron.
	Unit 4. Students will classify the detectors
	of nuclear radiations, state and explain the
	principle construction and working of
	Geiger-Muller counter Wilson Cloud
	Chamber and the Scintillation counter
	Unit 5 Students will explain the emission of
	alpha and beta rays Pauli Neutrino
	hypothesis Beta and Alpha Bay Spectrum
	nuclear energy levels from Bata decay
	Luit 6 Students will cleasify and estagonize
	the different men entire of elementary
	use unterent properties of elementary
	particles: leptons, hadrons (baryons and
	mesons), quarks.
PHYSICS-XII ENERGY STUDIES	Unit 1. Students will classify, define and
(Course Code: 2231525)	explain the different forms of energy,
	renewable and non-renewable energy
	sources.
	Unit 2. Students will appraise and explain

	~ . ~
	Solar energy, Solar energy plant, explain,
	interpret IV characteristics and Efficiency of
	nhotovoltaic cell
	Unit 2. Students will emmailed and evaluin
	Unit 5. Students will applaise and explain
	Wind energy and Wind energy quantum,
	wind turbine generator unit, explain
	Horizontal Axis Wind Turbine (HAWT)
	and Wind farm.
	Unit 4 Students will explain and analyze
	Direct conversion of biomass
	the sum of
	thermochemical conversion of biomass
	(Pyrolysis) and Biochemical conversion of
	biomass.
	Unit 5. Students will state and comprehend
	Ocean energy resources, interpret the
	guidelines of ocean energy conversion
	plants Explain Ocean energy routes
	Unit 1. Students
PHYSICS-SEC-5 Inin Film Deposition	Unit 1. Students will comprehend the
and Characterization	different roles of thin films in day today
(Course Code: 2231522)	applications.
	Students will investigate various thin film
	deposition and characterization techniques.
	Unit 2. Students will experiment deposit
	thin
	film by Chamical Danasitian tachnique like
	$\frac{1}{1}$
	Electrodeposition and SILAR.
	Unit 3. Students will characterize the
	deposited thin films by XRD, determine the
	crystal structure and crystallite size from the
	X-ray diffractogram analysis.
	Unit 4 Students will compile the
	experimental data analytical data
	experimental data, analytical data,
	observations and inferences in the form of
	research paper. Students will develop
	presentation skills and present their research
	findings in the form of Research Paper
	Presentation in Conference /Seminar /
	Workshop / Symposia
PHVSICS-XIII FLECTRODVNAMICS	Unit 1 Students will explain motion of
(Course Code: 2221621)	charged particle in constant electric (E)
(Course Coue: 2251021)	field in constant meanstin (D) field hoth
	neid, in constant magnetic (B) neid, both
	crossed uniform electric and magnetic
	fields.
	Unit 2. Students will state and deduce
	Integral & Differential forms of Faradav's
	laws self-inductance of solenoid and
	mutual inductance to transformer
	Linit 2 Students will intermeet Maxwall's
	omit 5. Students will interpret iviaxwell S
	correction to Ampere's law and deduce
	Maxwell's equations for time dependent

	electric and magnetic fields in vacuum, material medium, interpret Physical significance (Integral form) of Maxwell's Equations. Unit 4. Students will interpret and prove Poynting's theorem, deduce Plane E. M. waves in dielectric and Plane E. M. waves in conductors, Attenuation of wave in metal (skin depth). Unit 5. Students will explain Reflection and refraction of E. M. waves at a boundary of two dielectrics, Reflection from a conducting plane – normal incidence, Total internal reflection. Unit 6. Students will derive Radiation reaction for electric dipole
PHYSICS-XIV MATERIALS SCIENCE (Course Code: 2231622)	 Unit 1. Students will interpret atomic spectra, doublet fine structure of alkali metals, analyze spectrum of Sodium, intensity rules. Unit 2. Students will explain Anomalous Zeeman effect, apply to illustrate Paschen Back effect and Stark effect of hydrogen in strong and weak magnetic and electric field. Unit 3. Students will analyze and explain vibrational energy levels and vibrational spectra, electronic spectra of a diatomic molecule, Franck-Condon principle, Raman effect. Unit 4. & 5. Students will set up time dependent and time independent Schrödinger wave equation, deduce probability current density, Particle in a Box, Step Potential, Potential Barrier, Linear Harmonics Oscillator, Zero-point energy. Unit 6. Students will use the Operators to determine Eigen values of Hydrogen atom using Schrodinger's equation.
PHYSICS-XV ATOMIC PHYSICS, MOLECULAR PHYSICS AND QUANTUM MECHANICS (Course Code: 2231623)	Unit 1. Students will interpret atomic spectra, doublet fine structure of alkali metals, analyze spectrum of Sodium, intensity rules. Unit 2. Students will explain Anomalous Zeeman effect, apply to illustrate Paschen Back effect and Stark effect of hydrogen in strong and weak magnetic and electric field. Unit 3. Students will analyze and explain vibrational energy levels and vibrational

	spectra, electronic spectra of a diatomic
	molecule, Franck-Condon principle, Raman
	effect.
	Unit 4 & 5 Students will set up time
	dependent and time independent
	Schrödinger wave equation deduce
	probability current density. Dertials in a
	Day Stop Detential Detential Derrier
	box, Step Potential, Potential Baller,
	Linear Harmonics Oscillator, Zero-point
	energy.
	Unit 6. Students will use the Operators to
	determine Eigen values of Hydrogen atom
	using Schrödinger's equation.
PHYSICS-XVI ELECTRONICS	Unit I. Student will design different projects
(Course Code: 2231624)	using Op-amp.
	Unit 2. Student will design different timer
	circuits IC-555.
	Unit 3. & 4. Student will design circuits for
	different applications using DIAC, TRIAC
	and SCR.
	Unit 5. Student will analyze the display
	mechanism of different display devices
	around them.
	Unit 6. Student will comprehend the theory,
	mechanism and different applications of
	Opto-electronic devices for different
	applications.
PHYSICS-XVI INSTRUMENTATION	Unit 1. Students will classify, illustrate and
(Course Code: 2231625)	design circuits using transducers in various
	applications
	Unit 2. Students will explain the different
	types of Microscopes, construction and
	working and illustrate their applications.
	Unit 3. Students will describe the
	application of UV and IR spectroscopy,
	XPS, Raman Spectroscopy, explain their
	significance and applications.
	Unit 4. Students will state and explain the
	Principle, Construction and working of X-
	ray diffractometer, illustrate various
	application of X-ray diffraction and X-ray
	Fluorescence.
	Unit 5. Students will explain the Principle,
	Construction and working of Mossbauer
	spectrometer, explain the applications of
	Mossbauer Spectroscopy.
	Unit 6. Students will explain the Principle
	Construction and working of ECG EEG
	MRI and explain their applications.
PHYSICS PRACTICAL – IV:	1) Student acquires knowledge about the

Group-I: GENERAL PHYSICS, HEAT	fundamental concepts of General Physics,
AND SOUND	Heat and Sound.
(Course Code: 2231626)	2) Student demonstrates the acquired
	concepts through various experiments
	3) Student illustrates the demonstrations the
	acquired skills with day today experiences
PHYSICS PRACTICAL – V:	1)Student acquires practical skills through
Group-II: OPTICS	experimental performance
(Course Code: 2231627)	2) Student demonstrates the acquired skills
	through experimentation
	3) Student illustrates the demonstrations the
	acquired skills with day today experiences
PHYSICS PRACTICAL – VI:	1) Student independently does circuit
Group-III: ELECTRICITY AND	connections, explains working of circuits,
MAGNETISM	interprets the theory behind the working of
(Course Code: 2231628	circuits.
	2) Student demonstrates, analyses and
	explains the fundaments behind the circuit.
	3) Student illustrates the demonstrations the
	acquired skills with day today experiences
PHYSICS PRACTICAL – VII:	1)Student designs, builds, analyses and tests
Group-IV: NUCLEAR PHYSICS,	the circuits
OPTOELECTRONICS &	2) Students can demonstrate and present the
ELECTRONICS	acquired knowledge.
(Course Code: 2231629)	3) Student apprises their technical skills and
	prepares to accept challenges by facing
	technological advancements to have secured
	tuture study.
PHYSICS PRACTICAL – VII	1) Student acquires skills in Energy
Group – IV: ENERGY STUDIES &	generation, consumption and sustenance
INSTRUMENTATION	2) Student develops the skill of
	instrumentation, instrument handling and
	instrument operation
	3) Student studies practically to be an
	environment savior by acquiring skills of
	generating and handling renewable,
	convertible energy resources.

Name of the Department: Zoology

Course Title	Course Outcomes (Cos), Programme Specific
	Outcomes (PSOs)
B.Sc-Zoology	 Programme Specific Outcomes (PSOs) The student will be able to 1. Inculcate analytical/ critical, logical and innovating thinking and problem solving skills in the area of Zoology.

areas of fundamentals of biochemistry, Animal physiology, principles of ecology, Molecular biology, Animal behavior and chronobiology, Animal behavior and chronobiology, Animal behavior and chronobiology, Animal behavior and chronobiology, Animal biotechnology and Biolog of insect of their carrier development in higher education and research or related opportunities in industryClass -B.Sc-III Semester -V Course Titles Paper -DSE-1A Molecular Biology IX (2231571) Title of the Paper (Course codeCourse Outcomes (COs) The student will be able to CO1- Describe the Structure Of DNA and RNA.CO2- Create Watson and Crick model of DNA.CO2- Create Watson and Crick model of DNA.CO3- Describe DNA Replication in Prokaryotes and Eukaryotes.CO4-Describe process of transcription and translation in prokaryotes and eukaryotes.Paper -X- DSE-2A: Principles of Genetics PaperXI DSE-3A: EndocrinologyCO1- Elaborate basic concepts in genetics. CO3-Describe the various gene interaction . CO4-Describe the various dinds of mutation and their importance.PaperXI DSE-3A: EndocrinologyCO1-Describe the mechanism and explain the concept behind biological rhytms.		2. Acquire skills in some of the specialized
Animal physiology, principles of ecology, Molecular biology, principles of genetics, Evolutionary biology, Animal behavior and chronobiology, Animal behavior and chronobiology of insect of their carrier development in higher education and research or related opportunities in industryClass -B.Sc-III Semester -V Course Titles Paper -DSE-1A Molecular Biology IX (2231571) Title of the Paper (Course codeCourse Outcomes (COs) The student will be able to CO1- Describe the Structure Of DNA and RNA.CO2- Create Watson and Crick model Or DNA.CO2- Create Watson and Crick model of DNA.CO3- Describe DNA Replication in Prokaryotes and Eukaryotes.CO4-Describe process of transcription and translation in prokaryotes and eukaryotes.Paper -X- DSE-2A: Principles of Genetics CO4- Describe mendelian inheritance pattern. CO3-Describe the mechanism of crossing over.CO1- Elaborate basic concepts in genetics. CO4- Describe the mechanism of crossing over.Paper -XI DSE-3A: EndocrinologyCO1-Describe the types of linkage. CO4- Describe the various kinds of mutation and their importance.Paper -XI DSE-3A: EndocrinologyCO1-Describe the mechanism and explain the concept behind biological rhythms.		areas of fundamentals of biochemistry,
Paper -X- DSE-2A: Principles of Geneticscology, Molecular biology, principles of genetics, Evolutionary biology, Animal biotechnology and Biology of insect of their carrier development in higher education and research or related opportunities in industryClass -B.Sc-III Semester -V Course Titles Paper -DSE-1A Molecular Biology IX (2231571) Title of the Paper (Course codeCourse Outcomes (COs) The student will be able to CO1- Describe the Structure Of DNA and RNA .Class -B.Sc-III Semester -V Course codeCourse Outcomes (COs) The student will be able to CO1- Describe the Structure Of DNA and RNA .CO2- Create Watson and Crick model of DNA.CO3- Describe DNA Replication in Prokaryotes and Eukaryotes.CO4-Describe process of transcription and translation in prokaryotes and eukaryotes.CO1- Elaborate basic concepts in genetics. CO2- Describe mendelian inheritance patern.CO3-Describe the types of linkage.CO4- Describe the types of linkage. CO6- Describe the various kinds of mutation and their importance.PaperXI DSE-3A: EndocrinologyCO1-Describe the mechanism and explain the concept behind biological rhytms.		Animal physiology, principles of
Paper -X- DSE-2A: Principles of GeneticsCourse function of genetics. Course Tritice Paper - NSE-1A Molecular Biology IX (2231571) Title of the Paper (Course codeCourse Course Cours		ecology. Molecular biology, principles of
Paper -X- DSE-2A: Principles of GeneticsColl<		genetics Evolutionary biology Animal
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CO4-Describe process of transcription and translation in prokaryotes and eukaryotes.CO5-Interpret post transcriptional modification of eukaryotic mRNAPaper -X- DSE-2A: Principles of GeneticsCO1- Elaborate basic concepts in genetics. CO2- Describe mendelian inheritance pattern. CO3-Describe various gene interaction . CO4- Describe the mechanism of crossing over. CO5-Describe the types of linkage. CO6- Describe the various kinds of mutation and their importance .Paper - XI DSE-3A: EndocrinologyCO1-Describe the mechanism and explain the concept behind biological rhythms.		
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Paper -X- DSE-2A: Principles of GeneticsCO1- Elaborate basic concepts in genetics. CO2- Describe mendelian inheritance pattern. CO3-Describe various gene interaction . CO4- Describe the mechanism of crossing over. CO5-Describe the types of linkage. CO6- Describe the various kinds of mutation and their importance .PaperXI DSE-3A: EndocrinologyCO1-Describe the mechanism and explain the concept behind biological rhythms.		
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pattern. CO3-Describe various gene interaction . CO4- Describe the mechanism of crossing over. CO5-Describe the types of linkage. CO6- Describe the various kinds of mutation and their importance . CO1-Describe different endocrine glands and their hormones. CO2- Describe the mechanism and explain the concept behind biological rhythms. CO2- Describe the mechanism and explain the concept behind biological	Paper -X- DSE-2A: Principles of Genetics	CO2- Describe mendelian inheritance
CO3-Describe various gene interaction . CO4- Describe the mechanism of crossing over. CO5-Describe the types of linkage. CO6- Describe the various kinds of mutation and their importance .PaperXI DSE-3A: EndocrinologyCO1-Describe different endocrine glands and their hormones. CO2- Describe the mechanism and explain the concept behind biological rhythms.		pattern.
CO4- Describe the mechanism of crossing over. CO5-Describe the types of linkage. CO6- Describe the various kinds of mutation and their importance .PaperXI DSE-3A: EndocrinologyCO1-Describe different endocrine glands and their hormones. CO2- Describe the mechanism and explain the concept behind biological rhythms.		CO3-Describe various gene interaction.
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CO5-Describe the types of linkage. CO6- Describe the various kinds of mutation and their importance .PaperXI DSE-3A: EndocrinologyCO1-Describe different endocrine glands and their hormones. CO2- Describe the mechanism and explain the concept behind biological rhythms.		over.
CO6- Describe the various kinds of mutation and their importance .PaperXI DSE-3A: EndocrinologyCO1-Describe different endocrine glands and their hormones. CO2- Describe the mechanism and explain the concept behind biological rhythms.		CO5-Describe the types of linkage.
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PaperXI DSE-3A: Endocrinology their hormones. CO2- Describe the mechanism and explain the concept behind biological rhythms.		CO1-Describe different endocrine glands and
CO2- Describe the mechanism and explain the concept behind biological rhythms.	PaperXI DSE-3A: Endocrinology	their hormones.
explain the concept behind biological rhythms.		CO2- Describe the mechanism and
rhythms.		explain the concept behind biological
		rhythms.
CO3- Describe the structure, function and		CO3- Describe the structure, function and
regulation of neuroendocrine gland.		regulation of neuroendocrine gland.
CO4- Explain the pituitary gland and it's		CO4- Explain the pituitary gland and it's
hormones and their functions control		hormones and their functions control
mechanism and their disorders		mechanism and their disorders
CO5- Describe various hormone secreted by		CO5- Describe various hormone secreted by
pituitary gland control mechanism and their		pituitary gland, control mechanism and their
disorders		disorders

Paper -XII- DSE-4A (I): Wildlife	CO1- Describe importance of wild life and
Conservation & Management	its conservation
	CO2- Evaluate different requirement for the
	management of wild life.
	CO3- Manage wild life tourism.
	CO4- Estimate population of wild life.
	CO5- Describe various socio environmentai
	CO6 Classify animals under IUCN Red Data
	List
	CO1-Describe the process of digestion.
PaperXIII- DSE-1B Animal Physiology:	CO2- Discuss the mechanism and regulation
Life Sustaining Systems	of breathing, oxygen consumption and
	determination of respiratory quotient.
	CO3-Explain the renal physiology.
	CO4-Describe component of blood and types
	of blood groups.
	Heart
	CO5-Interpret the electrocardiogram
	CO6-Explain the blood pressure and it's
	regulation.
	CO7-Compare the different respiratory
	pigments
Demon VIV DEE 2P: Evolutionary Biology	CO1 Evaluin the beginning of life on earth
Paper -XIV- DSE-2B: Evolutionary Biology	CO1- Explain the beginning of life on earth
Paper -XIV- DSE-2B: Evolutionary Biology	CO1- Explain the beginning of life on earth CO2- Describe various evolutionary theories CO3- Identify types of fossil.
Paper -XIV- DSE-2B: Evolutionary Biology	CO1- Explain the beginning of life on earth CO2- Describe various evolutionary theories CO3- Identify types of fossil. CO4- Relate various evidences in the process
Paper -XIV- DSE-2B: Evolutionary Biology	CO1- Explain the beginning of life on earth CO2- Describe various evolutionary theories CO3- Identify types of fossil. CO4- Relate various evidences in the process of evolution .
Paper -XIV- DSE-2B: Evolutionary Biology	CO1- Explain the beginning of life on earth CO2- Describe various evolutionary theories CO3- Identify types of fossil. CO4- Relate various evidences in the process of evolution . CO5-Describe products of evolution.
Paper -XIV- DSE-2B: Evolutionary Biology	 CO1- Explain the beginning of life on earth CO2- Describe various evolutionary theories CO3- Identify types of fossil. CO4- Relate various evidences in the process of evolution . CO5-Describe products of evolution. CO6- Describe various stages of evolution of
Paper -XIV- DSE-2B: Evolutionary Biology	 CO1- Explain the beginning of life on earth CO2- Describe various evolutionary theories CO3- Identify types of fossil. CO4- Relate various evidences in the process of evolution . CO5-Describe products of evolution. CO6- Describe various stages of evolution of man
Paper -XIV- DSE-2B: Evolutionary Biology	CO1- Explain the beginning of life on earth CO2- Describe various evolutionary theories CO3- Identify types of fossil. CO4- Relate various evidences in the process of evolution . CO5-Describe products of evolution. CO6- Describe various stages of evolution of man
Paper -XIV- DSE-2B: Evolutionary Biology Paper -XV- DSE-3B: ANIMAL	CO1- Explain the beginning of life on earth CO2- Describe various evolutionary theories CO3- Identify types of fossil. CO4- Relate various evidences in the process of evolution . CO5-Describe products of evolution. CO6- Describe various stages of evolution of man CO1- Describe various types of behavioral pattern.
Paper -XIV- DSE-2B: Evolutionary Biology Paper -XV- DSE-3B: ANIMAL BEHAVIOUR AND CHRONOBIOLOGY	 CO1- Explain the beginning of life on earth CO2- Describe various evolutionary theories CO3- Identify types of fossil. CO4- Relate various evidences in the process of evolution . CO5-Describe products of evolution. CO6- Describe various stages of evolution of man CO1- Describe various types of behavioral pattern. CO2- Describe various types of social
Paper -XIV- DSE-2B: Evolutionary Biology Paper -XV- DSE-3B: ANIMAL BEHAVIOUR AND CHRONOBIOLOGY	 CO1- Explain the beginning of life on earth CO2- Describe various evolutionary theories CO3- Identify types of fossil. CO4- Relate various evidences in the process of evolution . CO5-Describe products of evolution. CO6- Describe various stages of evolution of man CO1- Describe various types of behavioral pattern. CO2- Describe various types of social behavior in animals
Paper -XIV- DSE-2B: Evolutionary Biology Paper -XV- DSE-3B: ANIMAL BEHAVIOUR AND CHRONOBIOLOGY	 CO1- Explain the beginning of life on earth CO2- Describe various evolutionary theories CO3- Identify types of fossil. CO4- Relate various evidences in the process of evolution . CO5-Describe products of evolution. CO6- Describe various stages of evolution of man CO1- Describe various types of behavioral pattern. CO2- Describe various types of social behavior in animals CO3- Describe various sexual behavior in
Paper -XIV- DSE-2B: Evolutionary Biology Paper -XV- DSE-3B: ANIMAL BEHAVIOUR AND CHRONOBIOLOGY	 CO1- Explain the beginning of life on earth CO2- Describe various evolutionary theories CO3- Identify types of fossil. CO4- Relate various evidences in the process of evolution . CO5-Describe products of evolution. CO6- Describe various stages of evolution of man CO1- Describe various types of behavioral pattern. CO2- Describe various types of social behavior in animals CO3- Describe various sexual behavior in animals
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Paper -XIV- DSE-2B: Evolutionary Biology Paper -XV- DSE-3B: ANIMAL BEHAVIOUR AND CHRONOBIOLOGY	 CO1- Explain the beginning of life on earth CO2- Describe various evolutionary theories CO3- Identify types of fossil. CO4- Relate various evidences in the process of evolution . CO5-Describe products of evolution. CO6- Describe various stages of evolution of man CO1- Describe various types of behavioral pattern. CO2- Describe various types of social behavior in animals CO3- Describe various sexual behavior in animals CO4- Describe various aspects in chronobiology CO5- Describe types and characteristics of
Paper -XIV- DSE-2B: Evolutionary Biology Paper -XV- DSE-3B: ANIMAL BEHAVIOUR AND CHRONOBIOLOGY	 CO1- Explain the beginning of life on earth CO2- Describe various evolutionary theories CO3- Identify types of fossil. CO4- Relate various evidences in the process of evolution . CO5-Describe products of evolution. CO6- Describe various stages of evolution of man CO1- Describe various types of behavioral pattern. CO2- Describe various types of social behavior in animals CO3- Describe various sexual behavior in animals CO4- Describe various aspects in chronobiology CO5- Describe types and characteristics of biological rhythm
Paper -XIV- DSE-2B: Evolutionary Biology Paper -XV- DSE-3B: ANIMAL BEHAVIOUR AND CHRONOBIOLOGY	 CO1- Explain the beginning of life on earth CO2- Describe various evolutionary theories CO3- Identify types of fossil. CO4- Relate various evidences in the process of evolution . CO5-Describe products of evolution. CO6- Describe various stages of evolution of man CO1- Describe various types of behavioral pattern. CO2- Describe various types of social behavior in animals CO3- Describe various sexual behavior in animals CO4- Describe various aspects in chronobiology CO5- Describe types and characteristics of biological rhythm
Paper -XIV- DSE-2B: Evolutionary Biology Paper -XV- DSE-3B: ANIMAL BEHAVIOUR AND CHRONOBIOLOGY Paper -XVI- DSE-4B (I): Applied Zoology	 CO1- Explain the beginning of life on earth CO2- Describe various evolutionary theories CO3- Identify types of fossil. CO4- Relate various evidences in the process of evolution . CO5-Describe products of evolution. CO6- Describe various stages of evolution of man CO1- Describe various types of behavioral pattern. CO2- Describe various types of social behavior in animals CO3- Describe various sexual behavior in animals CO4- Describe various aspects in chronobiology CO5- Describe types and characteristics of biological rhythm
Paper -XIV- DSE-2B: Evolutionary Biology Paper -XV- DSE-3B: ANIMAL BEHAVIOUR AND CHRONOBIOLOGY Paper -XVI- DSE-4B (I): Applied Zoology	 CO1- Explain the beginning of life on earth CO2- Describe various evolutionary theories CO3- Identify types of fossil. CO4- Relate various evidences in the process of evolution . CO5-Describe products of evolution. CO6- Describe various stages of evolution of man CO1- Describe various types of behavioral pattern. CO2- Describe various types of social behavior in animals CO3- Describe various aspects in chronobiology CO5- Describe types and characteristics of biological rhythm CO1- Describe various fishing strategies CO2- Use honeybees for economical
Paper -XIV- DSE-2B: Evolutionary Biology Paper -XV- DSE-3B: ANIMAL BEHAVIOUR AND CHRONOBIOLOGY Paper -XVI- DSE-4B (I): Applied Zoology	 CO1- Explain the beginning of life on earth CO2- Describe various evolutionary theories CO3- Identify types of fossil. CO4- Relate various evidences in the process of evolution . CO5-Describe products of evolution. CO6- Describe various stages of evolution of man CO1- Describe various types of behavioral pattern. CO2- Describe various types of social behavior in animals CO3- Describe various sexual behavior in animals CO4- Describe various aspects in chronobiology CO5- Describe types and characteristics of biological rhythm CO1- Describe various fishing strategies CO2- Use honeybees for economical production of honey

Course Title	Course Outcomes (Cos), Programme Specific Outcomes (PSOs)
Programme Title B.Sc BOTANY	 Programme Specific Outcomes (PSOs) The student will be able to Apply botanical knowledge in their day to day and professional life Distinguish, identify and classify the plants as per their characters and categorise them in different taxa.
Course Titles:- B.Sc Botany Class:- B.Sc.III Semester V Title of the Paper : - PLANT SYSTEMATICS Paper- IX	Course Outcomes (COs) The student will be able to 1) recall all angiospermic terminology 2) recall botanical names of local plants identify the plants with respect to family according to different classification systems
Course Titles:- B.Sc Botany Class:- B.Sc.III Semester V Title of the Paper : - GENETICS Paper- X	 Course Outcomes (COs) The student will be able to analyse Mendel's low of inheritance explain process of linkage and crossing over explain mechanism of sex determination 4) analyse Polygenic traits and can explain Hardy and Weinberg's low
Course Titles:- B.Sc Botany Class:- B.Sc.III Semester V Title of the Paper : - MOLECULAR BIOLOGY Paper- XI	 Course Outcomes (COs) The student will be able to distinguish between different experiments related to discovery of DNA as genetic material to compare structure of DNA and RNA to explain mechanism of DNA replication in Prokaryotes and Eukaryotes analyse process of transcription and translation in Prokaryotes and Eukaryotes
Course Titles:- B.Sc Botany Class:- B.Sc.III Semester V Title of the Paper : ECONOMIC BOTANY	Course Outcomes (COs) The student will be able to 1) understand the uses of different

Name of the Department: BOTANY

Paper- XII (Elective Paper)	 plants and plant part 2) explain uses of different plant as source of vegetable oil 3) compare natural source of drugs obtained from different plants and their parts 4) Categorise the plant natural products as per their origin and importance.
Course Titles:- B.Sc Botany Class:- B.Sc.III Semester VI Title of the Paper : PLANT PATHOLOGY Paper- XIII	 Course Outcomes (COs) The student will be able to identify plant diseases as per their characteristics compare symptoms of fungal and bacterial diseases of plants examine the symptoms of mycoplasma, bacterial and viral plant disease Identify healthy and high productive seeds by its character.
Course Titles:- B.Sc Botany Class:- B.Sc.III Semester VI Title of the Paper : PLANT BIOTECHNOLOGY Paper- XIV	 Course Outcomes (COs) The student will be able to explain recombinant DNA technology compare the different methods of gene transfer explain different methods of gene cloning explain different application of plant tissue culture
Course Titles:- B.Sc Botany Class:- B.Sc.III Semester VI Title of the Paper : CELL BIOLOGY Paper- XV	 Course Outcomes (COs) The student will be able to compare scanning and scanning transmission electron microscopy compare structure of Eukaryotic and Prokaryotic cell categorise cell organelles as per their functions explain the process of meiosis and mitosis
Course Titles:- B.Sc Botany Class:- B.Sc.III Semester VI Title of the Paper : NURSERY, GARDENING & HORTICULTURE Paper- XVI Elective Paper	 Course Outcomes (COs) The student will be able to 1) compare scanning and scanning transmission electron microscopy 2) compare structure of Eukaryotic and Prokaryotic cell 3) categorise cell organelles as per their

Name of the Department: Electronics

Course Title	Course Outcomes (Cos), Programme
	Specific Outcomes (PSOs)
Semester V	1. Get the idea of basics of IC fabrication
Linear Integrated Circuits and Applications	techniques
2231551	2. Build and design various Non-linear
	Application of Op- amp
	3. Build and design various types of filters
	using Op-amp
	4. Build and design different types of
	regulated power supplies using ICs
	5. Build and design programmable
	Instrumentation amplifier and PLL for
	suitable applications
Semester V	1. Will have the knowledge of
Fundamentals of Microcontroller	microprocessor and Data converter
2231552	principles
	2. Assess Microcontroller's internal
	architecture and its operation within the
	area of manufacturing and performance.
	3. Apply knowledge and demonstrate
	programming proficiency using the various
	addressing modes and data transfer
	instructions of the target microcontroller.
	4. Analyse assembly language programs;
	select appropriate assemble into machine a
	cross assembler utility of a
	microcontroller.
	5. Write codes for microcontroller
	applications in assembly language
Semester V	1. Will have the knowledge of electronic
Electronic Communication	communication
2231555	2. Able to classify different types of
	modulation and de-modulation circuits
	3. Analyze the given wire antenna and its
	radiation characteristics also identify the
	suitable antenna for a given
	4 A dont the Impulation of Dedic Devices
	4. Adapt the knowledge of Kadlo Kecelver
	and relevision circuits
	S. Auapt the knowledge of Telephone
	System

Semester V	1. Explain basics of Signal Conditioning
Electronic Instrumentation	and do experiments with available
2231554	techniques
	2. Analyse and examine recorders and lab
	instruments
	3. Classify different instruments used in
	laboratory as measuring instruments
	4. Explain need of data acquisition system
	and study various types of data loggers
	5. Interpret and apply block diagram
	representations of control systems and
	design PID controllers
Semester V	1 Student will simulate and test the
SEC: Circuit Design & Simulation and	circuits with NI Multisim and with Proteus
PCB Fabrication	- a tool widely used in the industry
2231556	2 Identify dimensions of electronic and
	mechanical components for PCB lavouts.
	3. Hands-on experience of Circuit Design
	& Simulation.
	4. Hands-on experience of working with
	PCB Design.
	5. Adapt the skills to do better
	Minor/Major Projects.
Semester VI	1. Build and test circuits using power
Power Electronics	devices such as SCR, IGBT and MOSFET.
2231651	2. Adapt the basic knowledge of Thyristor
	3. Analyze and design controlled rectifier.
	4. Build and test circuits for inverters and
	choppers
	5. How to make use of power devices for
	various applications
Semester VI	1. Able to explain the concept of
Embedded System Design	embedded system, microcontroller,
2231652	different components of microcontroller
	and their interactions.
	2. Get familiarized with programming
	environment to develop embedded
	solutions.
	3. Develop programs for 89x51
	microcontroller to perform various tasks
	with embedded systems such as I/O,
	A Evaluate amb added C and download the
	4. Evaluate embedded C and download the
	to interfacings of various real world
	devices
	5 Design circuitry using microcontroller
	in order to interface it to external devices
Semester VI	1. Design and build fibre ontic systems for
Modern Communication Systems	communications

2231653	2. Analyse Performance of Satellite and
	Cellular communication
	3. Explain performance of Microwave and
	Radar Communication
	4. Make Digital data transmission circuits
	of ASK, FSK, PSK, PCM.
	5. Categorize different computer
	communication protocols and their
	applications
Semester VI	1. Adapt the basic knowledge of IoT and
Advance Single Board Computer with	Raspberry pi
Python and IoT	2. Able to develop Python programs
2231654	3. Interface and test RPi with IO devices
	using GPIO pins
	4. Able to interface and test various
	sensors with RPi
	5. Design IOT applications in different
	domain and be able to analyze their
	performance

Name of the Department: Mathematics

Course Title	Course Outcomes (Cos), Programme Specific Outcomes (PSOs)
Programme Title B. Sc. Mathematics	Programme Specific Outcomes (PSOs)
	PSO1 : Solid Foundation in Knowledge: Bachelor Degree in Mathematics is the culmination of in-depth knowledge of many core branches of mathematics, viz. Algebra, Calculus, Geometry, Differential Equations, Metric Space, Real and Complex Analysis including some related areas like Computer Science and Statistics. Thus, this programme helps students in building a solid foundation for further higher studies and research in Mathematics. PSO 2: Problem Solving: Students
	undergoing this programme learn to logically question assertions, to recognize
	patterns and to distinguish between essential and irrelevant aspects of problems. This helps them to learn behave responsibly in a rapidly changing interdependent

	society.
Course Titles: Algebra Class: B Sc. I: Semester: I Title of the Paper (Course code: 23MJ33111)	 Course Outcomes (COs) Upon successful completion of the course, students will be able: To find rank of the matrix, inverse of matrix by using Cayley-Hamilton theorem. To obtain the solution system of linear equations, To find Modulus and Argument of a complex numbers, De-Moiver's theorem and its applications, Roots of Complex number
Course Titles: Calculus Class: B Sc. I: Semester: I Title of the Paper (Course code 23MJ33112)	 Course Outcomes (COs) Upon successful completion of the course, students will be able to Evaluate the limits using L'Hospital rule. Find the nth derivatives using properties. Apply the Leibnitz rule Find higher order partial derivatives using definitions.
Course Titles: Fundamentals of Mathematics Class: B Sc. I: Semester: I Title of the Paper (Course code:23MN33111)	 Course Outcomes (COs) Understand Relations, Functions and Logic. Find gcd by using division algorithm and Euclidean algorittm. Solv determinant, inverse of the matrix and find eigen values and eigen vectors.
Course Titles: Quantitative Aptitude Class: B Sc. I: Semester: I Title of the Paper (Course code:23OE33111)	 Course Outcomes (COs) The student will be able to Improve arithmetical ability skill. 2) Enhance problem solving skill.

Course Titles: Vedic Mathematics Class: B Sc. I: Semester: I Title of the Paper (Course code: 23IK33111)	 Course Outcomes (COs) The student will be able to Learn Vedic Multiplication Methods. 2) Obtain Division by Vedic methods
Course Titles: Geometry Class: B Sc. I: Semester: II Title of the Paper (Course code	 Course Outcomes (COs) The student will be able to To find Intersection of two spheres, intersection of a cone with plane and line. To find equation of enveloping cone and cylinder.
Course Titles: Differential Equations-I Class: B Sc. I: Semester: II Title of the Paper (Course code	Course Outcomes (COs) The student will be able to 1) Choose the appropriate method 2) Choose the proper rule of finding IF Find the CF in all cases
Course Titles: Calculus of one Variable Class: B Sc. I: Semester: II Title of the Paper (Course code	 Course Outcomes (COs) The student will be able to Learn about derivatives and its application Understand Rolle's Theorem, Lagrange's Mean Value Theorem and Cauchy's Mean Value Theorem.
Course Titles: Logical Reasoning (Verbal) Class: B Sc. I: Semester: II Title of the Paper (Course code	Course Outcomes (COs) The student will be able to 1) Improve Logical Reasoning (Verbal) -I 2) Understand Logical Reasoning (Verbal) -I 3) Enhance Logical Reasoning (Verbal) -II
Course Titles: Programming in C++ Class: B Sc. I: Semester: II Title of the Paper (Course code	 Course Outcomes (COs) The student will be able to Understand overview of C. Learn Constants, Variables and Data Types.
Course Titles: Differential Calculus	Course Outcomes (COs)

Class: B Sc. II: Semester: III Title of the Paper (Course code: 2131305)	 The student will be able to 1) To find the equation of tangent line and normal line and length of tangent, normal, sub-tangent, subnormal at any point of a curve. 2) To understand the concept of curvature of a curve.
Course Titles: Laplace and Fourier Transform Class: B Sc. II: Semester: III Title of the Paper (Course code: 2131306	 Course Outcomes (COs) The student will be able to To memorize and explain definitions, formulas, equations and theorems and learn certain techniques. To find the Laplace transforms, and inverse Laplace Transform.
Course Titles: Differential Equations Class: B Sc. II: Semester: IV Title of the Paper (Course code: 2131405)	Course Outcomes (COs) Upon successful completion of the course, students will be able:
	 To solve ODEs of the first order and of degree higher than first utilizing the standard techniques. To solve the homogeneous second order ODE
Course Titles: Group Theory Class: B Sc. II: Semester: IV Title of the Paper (Course code: 2131406)	Course Outcomes (COs) Upon successful completion of the course, students will be able:
	 Define the meaning of Group and subgroup, to describe the formation and theories of group. Solve all type of problems on equivalence, congruence and divisibility.
Course Titles: Ring and Linear Algebra Class: B Sc. III: Semester: V Title of the Paper (Course code: 2231531)	Course Outcomes (COs) Upon successful completion of the course, students will be able:
	• Get knowledge of ring, integral domain, sub-ring and field.
	• Get an idea of homomorphism of ring, ideals and quotient ring.
Course Titles: Complex Analysis Class: B Sc.III: Semester: V	Course Outcomes (COs) Upon successful completion of the course,

Title of the Paper (Course code: 2231532)	students will be able:
	• Get an idea of complex differentiation, Necessary and sufficient condition of analytic function, Cauchy-Riemann Equations.
	• Understand complex integral, Taylor's, Maclaurin's and Laurent's series, Type of Singularities.
Course Titles: Real Analysis Class: B Sc.III: Semester: V Title of the Paper (Course code: 2231533)	Course Outcomes (COs) Upon successful completion of the course, students will be able:
	 Learn when certain theorems apply and when they do not. Explain what a definition or theorem says.
Course Titles: Partial Differential Equations Class: B Sc.III: Semester: V Title of the Paper (Course code: 2231534)	Course Outcomes (COs) Upon successful completion of the course, students will be able:
	 Learn formation of PDE and methods to solve first order Partial Differential Equations Learn linear and non-linear PDEs and their methods of solution.
Course Titles: Metric Spaces Class: B Sc. III: Semester: VI Title of the Paper (Course code: 2231631)	Course Outcomes (COs) Upon successful completion of the course, students will be able:
	• Equip students with basic mathematical tools such as open & close sets, continuity, completeness, totally boundedness and compactness which can be used to study general topology and real & complex analysis.
	• Enhance abstract thinking and visualization of students.
Course Titles: Numerical Analysis Class: B Sc.III: Semester: VI Title of the Paper (Course code: 2231632)	Course Outcomes (COs) Upon successful completion of the course,

	 students will be able: Understand finite differences. Get knowledge of interpolation.
Course Titles: Programming in C++ Class: B Sc.III: Semester: VI Title of the Paper (Course code: 2231633)	Course Outcomes (COs) Upon successful completion of the course, students will be able:
	• Describe the procedural and object oriented paradigm with concepts of keywords, identifiers, functions, classes, data and objects.
	• Describe the concept of Input and Output management.
Course Titles: Graph Theory Class: B Sc.III: Semester: VI Title of the Paper (Course code: 2231635)	 Course Outcomes (COs) Upon successful completion of the course, students will be able: Understand graph- undirected and directed, Types of graphs, Isomorphic graphs.
	• Get an idea of operations on graphs.

Name of the Department: COMMERCE

Course Title	Course Outcomes (Cos), Programme
	Specific Outcomes (PSOs)
Programme Title	Programme Specific Outcomes (PSOs)
B. COM	The student will be able to
	1. Comprehend the ideas, guidelines,
	and procedures associated with
	starting a business
	2. Gain expertise in accounting,
	costing, auditing, marketing,
	entrepreneurship, and management.
BCOM III SEMESTER V	Discuss the strategic management
Paper Title: Modern Management	process and apply the same in
Practices 2221501	organizational developments.
	• Explain the concept and significance of
	HRM in obtaining organizational goals
	• Identify the contents of Human
	Resource Accounting & Human
	Resource development Audit
	• Analyze the causes and effects of stress
	in the organization

Course Title: Business Regulatory	• Examine various aspects of entering into
Framework 2221503	a contract and implications of different
	types of contract
	• Show a fundamental understanding of
	the Indian Contract Act, 1872's
	requirements on both particular
	contracts and general contract
	principles.
	• Interpret the regulation governing the
	Contract of Sale of Goods
	• Outline the duties and clauses pertaining
	to limited liability partnerships in
	contracts.
Course Title: Co-operative Development	• Define the meaning and principles of
2221504	Co-operation
	• Discuss the constitution and functions of
	short term and medium term cooperative
	credit structure societies
	• Tell the constitution, functions,
	progress of non agricultural cooperative
	credit societies
	• Examine the institutional arrangement
	for cooperative education and training
Course Title: Advanced Accountancy I	• Examine the concepts, procedures, and
2221505	final accounts used in the banking
	sector.
	• Summarize holding companies,
	insurance companies, and the processes
	used in the insurance companies claim
	Calculations.
	Demonstrate the variations in balance sheet consolidation between a holding
	company and a subsidiary company
	• Explain about the concepts and
	nroblems associated with management
	accounting
Course Title: Advanced Accountancy II	Demonstrate the auditing concepts
2221506	techniques, and audit plan.
	• Describe the Limited Company Audit.
	• Tell about the audits of cooperative
	societies and cooperative housing
	societies.
	• Identify the differences in Cost, Tax,
	and Management Audits, etc.
Class: BCOM III SEMESTER VI	• Define the quality standards to attain
Course Title: Modern Management	organizational goals.
Practices 2221601	• Discuss the various techniques of
	improving overall productivity of the
	organization

	• Summarise about the fundamental idea and structure of Total Quality
	Management, along with each of its
	constituent parts.
	• Determine the importance of crisis
	management, environmental management, and disaster management
	among other things.
Course Title: Co-operative Development 2221604	• Discuss and list the cooperative laws and legislation in India
	• Explain the role and importance of
	important cooperative societies in India
	• Examine the Maharashtra Cooperative Housing Societies Laws to compare the housing society trends in India and Canada.
	• Spell out "cooperative audit," along with "its," "scope," and "types."
	• Talk about Internal Audit and the Responsibilities of an Internal Auditor.
	• Examine the Authorities and Responsibilities of a Cooperative Auditor
Course Title: Business Regulatory	Discover the basic provisions of the
Framework 2221603	corporations Act, 2013 regarding the different kinds of corporations, the articles of association, the memorandum of association, and the administration of company law.
	• List the key provisions of the Consumer Protection Act that safeguard consumer interests and the Competition Act that prohibit actions that could negatively impact competition:
	 Examine every vigilance initiative run
	by the Indian central government and
	provide guidance to different authorities
	in central government agencies on how
	improve their vigilance efforts
	 Explain the legislation under FEMA that
	controls the management and regulation
	of foreign exchange.
Course Title: Advanced Accountancy III	• Explain the merger and acquisition
2221000	experience
	 Analyse ratios, their applications in
	accounting, and their practical
	application in hire-purchase agreements

	and commercial decision-making.
	• Solve accounts on Hire purchase
	systems
	• Tell about cost accounting terms and
	costing techniques.
Course Title: Advanced Accountancy IV	• Explain the basic concepts and
2221606	provisions of GST and income tax.
	• Determine your income from salary and house property.
	• Discover how to calculate capital gains,
	income from various sources, and
	income from businesses and professions.
	Develop their own Income Tax Return
Class. M. Com. II Costing	• Discuss the Costing process and apply
SEMESTER -III	the same in organizational
Class. M. Com. II Costing	developments.
SEMESTER -III	• Explain the concept and significance of
	Costing in obtaining organizational
	goals
	Identify the contents of Costing & Cost Audit
	• Analyze the causes and effects of stress
	in the organization
	Apply costing techniques in Business organizations
Course Title: Advanced Costing –Paper	• Examine various aspects of costing.
IV	• Show a fundamental understanding
	about costing methods and techniques.
	• Interpret the costing Methods
	• Outline the duties of Cost Auditor
	• Apply the costing knowledge in their
	practical life and Business
	Organizations

Name of the Department: Computer Science

Course Title	Course Outcomes (Cos), Programme
	Specific Outcomes (PSOs)
Programme B.C.A.	1) Analyze and apply advanced
	technologies to solve real world problems in
	aspects of computer application.
	2) Apply the standard software engineering
	practices and strategies in software project
	development using the open source
	programming environment to deliver a
	quality product for business success.
	3) Design solutions to complex engineering
	problems.
	4) Apply ethical principles in project

	management.
	5) Learn teamwork while project
	development.
	6) Recognize the need for learning in the
	context of technological change.
BCA-III	Course Outcomes: After Completion of this
	course students will be able to
Programme:DSC-1E Theory Title	1.Use java API for web application
Advanced Java	development .
	2.Understand Server side programming.
	3.Apply concept of internationalization build
	web page .
	4 .Implement Hibernate concepts to develop
	web applications.
DSC-2E Theory Title: Visual	course outcomes: After completion of this
Programming	1 Design a complete program using visual
	nrogramming concents
	2. Develop GIII based applications
	3. Understand Object Oriented Concepts and
	database connection in C#.
DSC-3E Theory Title: Advanced Python	Course outcomes:
Programming	After completion of this course students will
	be able to
	1. Understand working of all the containers of
	python.
	2.Able to apply the Concept of Django
	framework to develop web application
DSC-4E Theory Title: Data Warehouse	Sonderstand the NumPy and pandas library.
and Data Mining	After completion of this course students will
	1) Identify the key process of data mining
	and data warehousing and data
	discovery
	2) Identify the appropriate data mining
	algorithms to solve real world
	problems.
SEC3 Theory Title: Computer Graphics	Course outcomes:
	After completion of this course students will
	1) Understand usage of graphical input and
	output devices
	2) Understand the multimedia authorning
DSC 1E Theory Title: Dot Not Technology	Course outcomes:
DSC-IF Incory InterDot Net Icenhology	On the completion of this course student
	will be able to
	1) Understand the Microsoft .NET
	Framework and ASP.net Page structure
	2) Design web applications with a variety of
	controls.
	3) Use Microsoft ADO.NET to access data in
	1 1 1

	1 $7 $ $1 $ $7 $ $1 $ $1 $ $1 $ 1
	4) Apply AJAX technology on server side
	controls.
DSC-2F Theory Title: Android	Course Outcomes
Programming	After completion of this course, student will
	1) Describe the process of developing
	mobile applications.
	2) Create mobile application on the Android
	Platform
	3) Design and implement mobile applications
	using SQLite databases.
DSE-3F Theory Title: Linux and Shell	Course outcomes:
Programming	After completion of this course student will
	1) Understand the basic Linux
	commands of the Linux operating
	system and can write shell scripts.
	2) Develop the basic skills required
	to write network programs.
	3) Create file systems, directories and
	operate them.
DSE-4F Theory Title: Recent Trends in	Course Outcomes:
IT	At the end of this course students will be
	able to
	1) Understand the concept of Big data and
	Hadoop.
	2) Understand the concept of Data Science
	and uses of Data Science.
	3) Understand the concept of machine
	learning basics, features and characteristics
	of
	machine learning
Sec4 Theory Title: Cryptography and	Course outcomes:
Network Security	At the end of this course student will
itetwork Security	1) Understand the cryptography concepts
	and techniques.
	2) Learn Concent of Digital Signature
	3) Understand Network security using
	firewall biometric and smart card
DSE-4F Theory Title: Recent Trends in IT Sec4 Theory Title: Cryptography and Network Security	 to write network programs. 3) Create file systems, directories and operate them. Course Outcomes: At the end of this course students will be able to 1) Understand the concept of Big data and Hadoop. 2) Understand the concept of Data Science and uses of Data Science. 3) Understand the concept of machine learning basics, features and characteristics of machine learning Course outcomes: At the end of this course student will 1) Understand the cryptography concepts and techniques. 2) Learn Concept of Digital Signature. 3) Understand Network security using firewall, biometric and smart card.

Class: BSC ECS-III

Course Title	Course Outcomes (Cos), Programme
	Specific Outcomes (PSOs)
Programme B.Sc (ECS)	B.Sc (ECS) graduates will gain in-depth
	knowledge in the field of Computer, Science &
	Technology. The students will have the ability to
	design, implement and evaluate a computer-
	based system, process, component and
	program to meet desired IT needs.
Programme:DSC-1E Theory Title	Course Outcomes: After Completion of this
:Advanced Java	course students will be able to
	1Acquire the knowledge of IO Programming
	2.Implement the client server Program with

	the help of networking concept 3.Gain the knowledge of Servlet technology 4.Create dynamic HTML content with Servlets and JavaServer Pages, using the JSP Standard Tag Library (JSTL)
DSC-2E Theory Title: Python Programming	Course Outcomes: On completion of this course, the students will be able to: 1.Describe principles of Python 2.Develop the skills of object oriented programming 3.Solve problems and increase programming capability. 4.Develop the skill of designing Graphical user Interfaces in Python. 5.Acquire the ability to write database applications in Python
DSC-3E Theory Title: Visual Programming	Course Outcomes: On completion of this course, the students will be able to: 1.Adopt Microsoft .NET Framework and Object Oriented Approach. 2.Design and develop console and window based .NET applications. 3.Create GUI components in C#. 4.Implement string manipulation, events handling, exception handling & database manipulation
DSC-4E Theory Title: Data Communication and Networking	On completion of this course, the students will be able to: 1.Know the basic concepts of data communications and networking. 2.Identify network layered models, the Open System Interconnect (OSI) and the Internet Model using TCP/IP protocols. 3.Explain how noise, attenuation, and distortion affect signal transport, encoding methods of analog and digital data digital transmission. Flow and Congestion control. 4.Identify the use of LAN components like Bridges, Switches, Routers etc. and the backbone networks. 5.Know the basics of network configuration and maintenance.
SEC3 Theory Title: Theory of Computer Science	Course Outcomes:Expected Course OutcomesOn completion of this course, the studentsshould be able to:1.Acknowledge the formal definitions ofmachine models.2.Design Finite machines for a given regularlanguage

	3.Analyze a given FiniteAutomata machine
	and find out its language.
	4.Design pushdown automata machine for
	given Context Free languages.
	5.Design Turing machine for any
	computational problem.
	Course Outcomes :
DSC 1F Theory Title: Android	On completion of this course the students
Application Development	will be able to:
Application Development	1. Demonstrate an understanding of the
	fundamentals of how Android systems work.
	2.Demonstrate their skills in utilizing
	Android software development tools.
	3. Design and develop user interfaces for the
	Android platfor
	4 apply style and themes in android apps
	5.Use SOLite Database in Android
DSC-2F Theory Title: Internet	Course Outcomes
Programming Using .Net	After completion of this course, student will
	1. Design a web page with various controls.
	2.Perform validation with validation
	controls.
	3.Implement ADO.NET to access data in a
	web application.
	4.Configure and deploy Web Application
DSE-3F Theory Title: React JS	Course outcomes:
	On completion of this course, the students
	should be able to:
	1. Implement class components
	2. Implement functional components
	3. Implements react hooks
	4. Implement higher order components
	5. Implements react-redux in an application
DSE-4F Theory Title: System Security	Course Outcomes:
	On completion of this course, the students
	will be able to:
	1 .Develop an understanding of information
	assurance as practiced in computer
	operating systems, distributed
	systems, networks and representative
	applications.
	2.Gain familiarity with prevalent network
	and distributed system attacks, defenses
	again stthem, and forensics to investigate
	the aftermath.
	3.Develop Basic Understanding Of
	Cryptography,how it has evolved,and some
	key encryption techniques used today.
	4 .Develop An Understanding Of Security
	Policies(such as authentication, integrity and
	confidentiality)
	5.implement such policies in the form of
	message exchanges.

SEC4 Theory Title: Compiler	Course outcomes:
Construction	On completion of this course, the students
	should be able to:
	1 .Introduce the major concepts in areas of
	language translation and compiler design.
	2.Develop an awareness of the function
	and complexity of modern compilers.
	3. Give students the knowledge and skills
	necessary to develop a language translator
	or compiler covering a broad range of
	engineering and scientific applications.
	4 .Learn context free grammars, compiler
	parsing techniques, construction of
	abstract syntax trees, symbol tables, and
	actual code generation.
	5 .Provide a thorough coverage of the basic
	issues in code optimization techniques

Name of Department: BBA

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Course Title	Course Outcomes (Cos), Programme
	Specific Outcomes (PSOs)
Course Title: Marketing Management-I	 Able to know the basic of Marketing Concepts Differentiate between different types of customers and markets Understand the Factors Influencing Consumer Behaviour Know about Classification of services To Study different and current Issues in Marketing
Course Title: Financial Management – I	 Discuss the types of financial decisions involved in a business. Differentiate between Equity Share Capital, Preference Share Capital and Debentures on basis of its features, merits and demerits. State the features of Trade Credit, Bank Overdraft, Cash Credit, Public Deposit. Demonstrate the benefit of trading on equity in capital structure by EBIT-EPS Analysis. Compute cost of equity, cost of preference shares, cost of debt, composite cost of capital. Use PBP, ARR and NPV technique in capital budgeting decisions under normal situations.
Course Title: Human Resource	• Understand the role of HR Manager in

Management - I	modern business.
	• Work effectively with colleagues with
	diverse skills, experience levels and
	way of thinking
	• To evaluate HRM related social,
	cultural, ethical and environmental
	responsibilities and issues
	 To plan human resources and
	implement techniques of job design
	• Develop the competencies to recruit,
	train, and appraise the performance of
	employees
Course Title: Business Law- I	• Distinguish between the terms
	Contract & Agreement' and also
	discuss all the essential elements which
	will make it a valid Contract.
	• Relate the exact relationship between
	Valid acceptance & Tules regarding a
	• Differentiate between the 'Sale &
	• Differentiate between the Sale &
	distinguished from other similar
	contracts
	• Understand the concept of partnership
	and all its essentials.
	• Apply in practice regarding how to
	register a partnership firm and how to
	dissolve it.
Course Title: Production Management I	• Explain the concept of Production
	Management
	• Understand factors and recent trends of
	plant location
	• Explain the principles and types of
	 Describe the knowledge of plant levent
	 Describe the knowledge of plant layout Differentiate between Production
	Differentiate between Production System and Production Technology
Course Title: F-Commerce	Understand concept of e-commerce
	Apply e-commerce in husiness
	Learn online payment System
	Understand concept of internet banking
	and online dealing
	Distinguish between Traditional
	Payment System & Modern Payment
	System and securities associated with
	it.
Course Title: Retailing Management – I	Discuss basic concepts of Retail
	• Know all the different kind of Retail
	Outlets, and differentiate between

	organized and unorganized
	• Discuss the importance of Location and
	Store Design
	• Assist the actual customers, and find
	store
	• Understand all the Rule laws
	associated with Retail industry
Course Title: Advanced Cost Accounting	• Understand the concept of Learning curve.
	• Prepare a Contract account for each
	contract in order to bring together all
	costs relating to a particular contract and calculate profit/loss.
	Prepare Process accounts to assign
	product costs to units of output.
	sten in being able to control them
	 Distinguish between Joint Products &
	By products and will be able to
	properly apportion the Joint cost.
	• Prepare an Operating cost sheet and
	calculate the operating cost. They will
	also be able to explain what operating
	cost is.
	• Describe the contemporary issues in cost and management accounting
Course Title: Brand Management	Provide students with breadth and
	depth in Brand Management.
	• Understand the principles of Branding
	at the Corporate & Product levels.
	• Understand the Basics of Branding.
	• Explain a) Brand Associations: Why is
	it important for parent Brands b) Brand
	Image: How it works and helps in maintaining brand
	 Describe what Brand Lovalty is &
	types associated with it.
Course Title: Indian Financial System	• Outline financial system in India, its
	functions and structure.
	• Discuss various ways in which a
	company may raise equity capital in primary market.
	• Explain the functioning of stock market in India.
	• Explain the features of money market
	and financial instruments in money
	market.
	 Elaborate the concept of mutual funds

	and types of mutual fund schemes in India.
Course Title: Marketing Management-II	 Understand how new product development takes place, and how companies make different Lines for their products Elaborate how companies use pricing strategies for different products and different customers. Find out various promotion strategies that are been used by different marketers Distinguish different type of employees and process at Service outlets Relate the importance of Physical evidence and Environment in service sector.
Course Title: Financial Management - II	 Explain the significance of working capital management in a business concern. Compute the working capital requirements on basis of cash cost approach. Formulate the cash budget as an aid to cash management planning. Know the constituents of credit policy under receivables management. Compare two inventory policies and recommend the best one on basis of profitability using concept of EOQ. Also calculate ROL, Maximum Level and Minimum Stock Level. Discuss the factors influencing dividend policy of a business concern.
Course Title: Human Resource Management - II	 Understand the importance of Compensation management. Distinguish between Traditional & Modern Methods of performance appraisal. Understand the reason of internal mobility & separation Understand the various provisions of Factories Act 1948 Learn the various forms of Workers Participation Management
Course litie: Business Law II	• Apply the knowledge acquired to make the best choices based on their interests and prevent them from being mistreated or misled by businesses.

	 Exercise their fundamental rights provided by the constitution to bring about transparency and openness so that citizens are well informed which will promote accountability and citizen centric development. Understand the types of companies; how memorandum of association is different from articles of association. They will also be able to distinguish between the various types of capitaland explain the rule of directors in management and administration of the
Course Title: Material Management	 Understand the levels, functions of Production Planning & importance of Planning and control Elaborate the concept, principles, type & factors affecting Material Handling
	 Explain purchasing cycle, vendor rating, policy relating to it Apply material storing techniques Acquired the knowledge of Quality management & factors affecting industrial productivity
Course Title: Cyber Security	 Understand the various ideas about cyber crime Define the concept of ethical hacking. Understand different cyber laws.
Course Title: Retailing Management – II	 Describe the characteristics and functions performed within retail buying organizations Elaborate different pricing strategies followed at various retails outlets. Outline the steps involved in the creation of a marketing communication program Provide brief insight about floor operation, product display, product handling, Inventory management and retail sales. Describe the Principles of strategic retail management, which the international retailing companies have implemented in building their retail strategy on the global market.
Course Title: Analysis of Financial	• Differentiate between various forms of
Statements	business organizations and explain who the stakeholders of financial statements

	 are. Understand the importance & techniques of Financial Statement Analysis. Prepare Funds Flow statement and will also be able to analyze the reasons for changes in the financial position of a company between two balance sheets. Summarizes the amount of cash and cash equivalents entering and leaving a company by preparing a Cash Flow statement which tells whether the company generates cash to pay its debt obligations and fund its operating expenses. To demonstrate an understanding of the
	corporate restructuring process, types, motives, and need
Course Title: PROJECT WORK	 Students will be able to gain an understanding of material through projects rather than just reading and writing. They will also be able to exercise planning, organizing, and creativity, which are vital skills. It is also important to engage students in hands-on activities in addition to reading and writing, so they can develop their soft skills

Name of the Department: BJMC

Course Title	Course Outcomes (Cos), Programme Specific Outcomes (PSOs)
Programme BJMC	 Programme Specific Outcomes (PSOs) The student will be able to Think critically, creatively, independently; carry out journalistic research and take up internships and jobs. describe effective contents for news media outlets and build network.
Course Titles: HCT 1.1 Introduction to Journalism & Communication Theories Class : BJMC	Course Outcomes (COs) The student will be able to 1. The students will be able to understand

Semester: I Title of the Paper (Course code): (2010101)	concepts in communication and shall be able to implement them in not only their professions but everyday life.
	2. Communication is integral to human expression and growth and has taken many forms over centuries. The students will be able to identify the use of media in providing meaningful information.
Course Titles: HCT – 1.2 Development and Extension Communication Class : BJMC Semester: I Title of the Paper (Course code): (2010102)	 Students will be able to recognize and explain the concept and importance of development Students will be able to distinguish between communication and development communication
Course Titles: HCT – 1.3 - News Reporting, Editing and Feature Writings Class : BJMC Semester: I Title of the Paper (Course code): (2010103)	 Students will be able to identify news values and comprehend the news process Organize a news story according to the hard news structure
Course Titles SCT – 1.2 Advertising Class : BJMC Semester: I Title of the Paper (Course code): (2010105)	 The student analyze the Indian advertising scenario and will distinguish between advertising and marketing. The student categorize different types of advertisements. The students will also be able to appraise and interpret the legal, ethical and social aspect of advertising.
Course Titles: HCP – 1.1 - Practical & Field Work Paper – 1 Class : BJMC Semester: I Title of the Paper (Course code): (2010106)	1.Student visited various newspapers and TV / Radio offices to learn the work
Course Titles: SCP 1.1 Practical & Field Work -2 Class : BJMC Semester: I Title of the Paper (Course code): (2010107)	1. External Supervisor gives field visit work to students as a reporter work.
Course Titles: Internship Class : BJMC Semester: I Title of the Paper (Course code): (2010108)	1. Student will be learning actual work in the news paper or TV radio office.

Course Titles: HCT – 2.1 Public Relations & Corporate Communication Class : BJMC Semester: II Title of the Paper (Course code): (2010201)	 Develop public relations materials, as demonstrated through Designing a set of press releases to address crisis scenarios creating a set of press releases to relay good news, and constructing a best practice press kit Compose ad copy in a variety of media, as demonstrated through Critical evaluation of visuals, graphics, and the written word and designing a best practices ad kit
Course Titles: HCT – 2.2 - Web Journalism and social media Class: BJMC Semester: II Title of the Paper (Course code): (2010202)	 Student will be able to explain New Media, its origin and evolution and impact on readers, business and society. Student will identify the milestones of
	internet journalism in India and worldwide. Student will be able to define important terms of digital world. Student will be able to explain the role of a New Media Journalist.
Course Titles: HCT 2.3 - Electronic Media (Radio& T.V.)	1. Students will outline the relationship of each personnel inside a radio station.
Class: BJMC Semester: II Title of the Paper (Course code): (2010203)	2. The students will memorize basic evolution of TV industry and its growth in India.
Course Titles: HCT 2.3 - SCT – 2.1 Media Management& Press Laws Class: BJMC	1. Students will be able to identify ethical issues faced by the media and discuss trends in commercialization of news
Title of the Paper (Course code): (2010204)	2. Students will be able to discuss the various media laws and their implications on conduct of media Students will be able to analyze the issue of media regulation in India
Course Titles: HCP – 2.1 - Practical & Field Work Paper – 1 Class: BJMC Semester: II Title of the Paper (Course code): (2010206)	1. Student visited various newspapers and TV / Radio offices to learn the work
Course Titles: HCT 2.3 - SCP 2.1 Practical	1. External Supervisor gives field visit work

& Field Work -2 Class: BJMC Semester: II Title of the Paper (Course code): (2010207)	to students as a reporter work.
Course Titles: Internship Class: BJMC Semester: II Title of the Paper (Course code): (2010208)	1. Student will be learning actual work in the newspaper or TV radio office.

Name of the Department: Library and Information Science

Course Title	Course Outcomes (Cos), Programme
Programma Titla	Programma Spacific Outcomes (PSOs)
R Lib and I So	The student will be able to
D.LID and I.St.	[PSO: 01] Demonstrate in denth
	[1 SO. 01] Demonstrate in deput
	nringinlag, theories and laws related
	principles, meeties and laws related
	With the broad field of Library and
	Information Science and its sub-fields
	such as types of libraries, types of
	information sources, library
	management, reference and
	information services. [PSO: 02]
	Demonstrate understanding of
	rationality and procedures of (1)
	selection, acquisition, classification,
	cataloguing and physical processing of
	documents; (11) using Information and
	Communication Technologies in
	Libraries and Information Centres; (11)
	providing library and information
	services and managing other library
	routine activities.
	[PSO: 03] Apply skills in carrying out
	professional activities such as (1)
	acquisition, accessioning,
	classification, cataloguing, and
	physical processing of documents; (ii)
	housekeeping operations using library
	management software and Information
	and Communication Technologies;
	(iii) maintaining library collection (iv)
	educate users
	[PSO: 04] Demonstrate skills in
	providing various library services such
	as document circulation, reference and

	information services Internet and
	database searching
	[PSO: 05] Demonstrate knowledge
	[1 SO: 05] Demonstrate Knowledge,
	understanding and skills that offer job
	opportunities as librarians in public
	libraries and school libraries; as
	assistant librarians in different types of
	college libraries, as library assistants /
	technical assistants in university
	libraries and other libraries of higher
	education institutes, as librarians
	and/or assistant librarians in corporate
	and industrial libraries, libraries of
	research institutes, etc.
	[PSO: 06] Demonstrate professional
	attitude through commitment for
	providing every user his/her
	document/information: ensuring every
	document/information its user saving time of
	the user and enhancing use of
	reading material and user satisfaction
	through effective and efficient library
	services
	[PSO: 07] Demonstrate core values by
	honoring diversity and insuring
	inclusion by treating all students and
	colleagues with respect and dignity
	showing respect for and sensitivity to
	and ar culture and religious
	differences; and challenging projudice
	bioges and intelements at the work lace
	ota and displaying athias integrity
	etc. and displaying ethical integrity
Course Title	Compared Optimized Construction of the standard sector sector of the standard sector sector of the standard sector
Course fille:	course Outcomes (COs) The student will be
Foundations of Library and Information	After completion of this course the student
Class Somester I	After completion of this course, the student
2020101	will be in a position to understand the
2020101	definition, nistory and purpose of the library.
	The students will be in a position to
	understand Development of libraries,
	Philosophy, Laws of Library Science. Further,
	they will be aware of the role of professional
	associations and the standard professional
	ethics of librarianship.
Foundations of Library & Information	1.Explain the Concept, Definition, History and
Science Class Semaster I	rupuse of the understanding of Development of
	2. Adopt the understanding of Development of library Science
	3 To Attune The role of professional
	associations

	4 Integrate the standard professional ethics of
	noranaisinp.
Library Organization	1. To give the students an opportunity to develop values that will help them Document selection
	Acquisition and processing of books
	2.Discover and implement on-print Serials
	Control, Circulation and stock checking process
	of the library.
Reference Service	1. Develop the broad range of in Reference
Class Semester I	2 To execute the Reference interview and search
	techniques and useful information services in the library.
	3. The students will be expertise in providing
	reference services to users of a library.
Information Science	1.Appraise the concept of the Information,
Class Semester I	information needs, categories, information
	2.Differentiate operations associated. Primary.
	Secondary and Tertiary sources of Information
	Science will be categorized.
Knowledge organization: A	1.Outline and bifurcate the Classification of
Class Semester I	Books, accordingly.
	of Colon Classification Systems and DDC
	3.Analyze the classification of books will be done
	accordingly and organization of knowledge is
	done in the different libraries.
Information Science	1.Appraise the concept of the Information,
Class Semester I	information needs, categories, information
	2.Differentiate operations associated, Primary,
	Secondary and Tertiary sources of Information
	Science will be categorized.
Knowledge organization: A	1.Outline and bifurcate the Classification of
Class Semester I	Books, accordingly.
	of Colon Classification. Systems and DDC.
	3.Analyze the classification of books will be done
	accordingly and organization of knowledge is
	done in the different libraries.
Document Description	
Class Semester I	Review the Catalogue of Books, classified $A \Delta C R_{-2}$
	2. Design The books catalogue and will be done
	accordingly and organization catalogue card
	3. Interprets the catalogue multiple copies of
	books in the different libraries.
Information Technology: Basics (Theory)	Acquire the knowledge of Information
Class Semester I	technology, computer, software, library network
	in the field of library and information centres

	Apply and adopt The computer applications in
	the different libraries.
Library Systems	1. Explains Types of Libraries Library legislation
Class Semester II	2.Adopt Resource sharing with other libraries.
	3. Develop and become member in Professional
	different libraries
Librow Managamant	1 Enhance the basics of management and how
Class Semester II	management principles are applied in library
Class Semester II	management
	2 The ability to perform the Collection
	maintenance Library Rules and Regulations
	Reporting etc.
	3. Acquaintance with the basics of collection
	management and Human resource
	management.
Reference Sources	1.Perform the broad range of Reference resources
Class Semester II	available in various subject areas. 2. The ability to
	evaluate and suggest resources.
	3.Prepare bibliography
	4.Evaluate User studies and user education.
Documentation Techniques and	1. The intricacies of Documentation Techniques
Services	and Services
Class Semester II	2. the ability to evaluate and prepare effective
	Acquainted with the concept of an index
	indexing languages vocabulary control and the
	semantic web. Information Systems and Centres.
Knowledge organization: B	1.Outline and bifurcate the Classification of
Class Semester II	Books, accordingly.
	2.Develop to classify the books on different
	types of Colon Classification, Systems and
	DDC.
	3.Analyze the classification of books will be
	done accordingly and organization of
	knowledge is done in the different libraries.
	4. Prepare various classification systems.
	Fundamental Categories, Trends in library
	classification and other systems.
Document Description:B	1. Analyze the normative principles, document
Class Semester II	descriptions prepare various catalogue entries
	2. Design for simple, complex, various
	authorships, editorial publications, serial
	documents
	3 Prenare catalogue entries for print and non
	nrint materials serial publications and
	corporate body authored documents
	3 Prenare catalogue entries for print and pon-
	print materials
Knowledge Organization	1 The students will prepare Classifications of
Class Semester II	books and other materials
	2.Impart skills in using DDC 19th edition and

	CC 6th edition classification schemes for classifying various print and non print materials.
Document Description Class Semester II	 1.Prepare various catalogue entries for simple, complex, various authorships, editorial publications, serial publications and corporate body authored documents. 2.Able to prepare catalogue entries for non-print materials.
Information Technology Class Semester II	 Practically use and implement the basics of information communication and technology to librarianship and information management. Aware of the features of the latest Operating Systems, Office management software and web page designing. Competence to create library using Excel entries, Bibliographical entries and design office documents. Entries in the excel sheet, Downloading of E-books and E-journals and should be collected in the C.D.