Cri. II

COURSE	COURSE CODE	COURSE OUTCOME
PROGRAMME	: B.A. Marathi	
SEMESTER I		
PAPER –I :	UAMAR1C1	C.O. 1) 'वडीलधारी माणसे' या ललितकलाकृतीचा अभ्यास करुन स्वत: विद्यार्थ्यानेजीवनात तसे बनण्याचा प्रयत्न करणे.
		C.O. 2) व्यवहारीकजीवनात भाषा संज्ञापन कौशल्यआत्मसात करुन भाषांतर, वृत्तलेखन, वृत्तांत लेखनात, अर्ज करण्याचे कौशल्यसंपादन करुन, तसा जीवनातप्रयोग करणे.
PAPER –I		C.O. 1) माणसाच्याजीवनातविनोदाचेमहत्त्व मनाला विरंगुळा देण्यासाठी, तसेच आपल्यातील दोष सुधारण्यासाठी 'कावळ्यांची शाळा' हे नाटकअभ्यासून हा नीतिबोधघेऊन तसे विद्यार्थ्यांनी कृती करणे.
मराठी (ऐच्छीक)	UAMAR101	C.O. 2) कोणताही धर्म त्याच्या मुळाशीमाणुसकी आणि मानवताच असते. पण काही लोक आपल्या स्वार्थासाठी धर्माचा वापर करुन दुरुपयोग करतात. विश्वास,मानवता हाच सर्वश्रेष्ठ धर्म आहे हे शफाउतखानयालेखक 'राहिले दूर घर माझे' या नाटकातूनमांडले आहे.
SEMESTER II		
PAPER –I	UAMAR2C1	C.O. 1) 'नापास मुलांची गोष्ट' या ललित लेख संग्रहातूनजीवनातनैराश्य जीवन न जगतासापेक्षजीवनजगण्यासाठी प्रयत्न करणे, तसेचविद्यार्थ्यानीभावीजीवनातचिकाटीने, जिद्दीनेयशाचेशिखरगाठले पाहिजे.
		C.O. 2) व्यवहारीकजीवनात भाषा संज्ञापन कौशल्यआत्मसात करुन इतिवृत्त लेखन, अहवाल लेखन, आकलनकौशल्यसंपादन करुन त्याचा प्रयोगजीवनातसेवाभावीकार्यातकरणे.
PAPER –I मराठी (ऐच्छीक)	UAMAR201	C.O. 1) कविता या साहित्य प्रकाराचासैध्दांतिक परिचय करुन देऊन विद्यार्थांनाकवितेचेघटक व प्रकार, समजावून देणे.
		C.O. 2) अभ्यासांसाठीनेमलेल्याकवींच्याकवितांचा परिचय करुन त्यांच्या काव्याची विविध स्वरुप वैशिष्ट्ये विद्यार्थ्यांना सांगणे व विद्यार्थ्यांचे मन कवितेकडे वळविणे.
SEMESTER III		
PAPER –II	UAMAR301	C.O. 1) कादंबरी साहित्य प्रकाराची विद्यार्थ्यांना ओळख करुन देऊन कादंबरीच्याघटकांचीविद्यार्थ्यांनामाहिती

मराठी (ऐच्छीक)			करुन देणे.
		C.O.	2) 'थँक्यूमिस्टरग्लाड' व 'दिवे गेलेले दिवस' या कादंब-यामधून सामाजिक, राजकीय, आर्थिक बदलाचे तसेच
			जागतिकीकरणामुळे निर्माण होणा-या नवनवीन समस्यांचे ज्ञान विद्यार्थ्यांना करुन देणे.
PAPER –III		C.O.	 भाषा कशी निर्माण झाली याचे स्वरुप विद्यार्थ्यांना समजावून देणे.
मराठी (ऐच्छीक)	UAMAR302	C.O.	 लिपी, चिन्ह, अर्थरुप, भाषेची निर्मिती प्रक्रिया व भाषेचीकार्येविद्यार्थ्याना माहिती करुन देणे.
		C.O.	 महाराष्ट्रातील विविध बोलींचीओळख विद्यार्थ्यांना करुन देणे.
SEMESTER IV	ſ	1	
PAPER –II		C.O.	1) आत्मचरित्र या वाङ्मूयप्रकाराची माहिती देवून 'मन मेंहैं विश्वास' व 'जसंघड्लंतसं' या कादंब-यांची
मराठी (ऐच्छीक)	UAMAR401		विद्यार्थ्यांना माहिती देवून अशा व्यक्तींचा काही बोध घ्यावा असा संदेश देणे.
		C.O.	 थोर मोठ्या व्यक्तींचाआदर्शडोळ्यासमोर ठेवून स्वतःचीप्रगती करुन घेणे.
		C.O.	1) 'मालवणीतल्यावाटा' - मालवणीबोली, संस्कृती, कवितेतून कशी अभिव्यक्त झाली आहे त्याची ओळख
PAPER –III			करुन देणे.
मराठी (ऐच्छीक)	UAMAR402	C.O.	2) मालवणीगा-हाणी, म्हणी, वाक्प्रचार यांची ओळख करुन देणे
		C.O.	3) 'चाकरमानी' नाटकातीलकोकणातीलसमाजजीवनाची माहिती करुन देणे.
		C.O.	 मालवणीबोलीतीलकवींच्याकवितांचा परिचय करुन देणे.
SEMESTER - V		1	
	UAMAR501	C.O.	1) मराठी भाषा कशी निर्माण झाली, ताम्रपट व शिलालेख या आधारे विद्यार्थ्यांना समजावून देणे.
Paper No. IV		C.O.	2) महानुभावीयपंथीयांच्यासाहित्याचीओळख कुरुन देणे.
मराठी (ऐच्छीक)		C.O.	3) वारकरी पंथीयांचेसमाजोन्नतीआत्मोन्नती कार्य याची ओळख करुन देणे.
		C.O.	 संस्कृतसाहित्याच्याप्रभावातूनपंडितीसाहित्याची निर्मिती कशी झाली याविषयीची माहिती विद्यार्थ्याना
			करुन देणे.
		C.O.	1) प्राचीनभारतातीलसाहित्याचेस्वरुप, संकृल्पना आणि सिद्धांत यांची माहिती करुन देणे.
Paper No. V	UAMAR502	C.O.	2) साहित्याचाआस्वाद कसा घेतला जातो ते प्राचीनभाष्यकारांमार्फत विद्यार्थ्यांना समजावून देणे.
मराठी (ऐच्छीक)		C.O.	3) साहित्य भाषेचेस्वरुप आणि कार्य कसे असते ते विद्यार्थ्यांना सांगून साहित्य निर्मिती प्रक्रिया समजावून
			देवून लेखन करण्यास प्रवृत्त करणे.
Paper No. VI		C.O.	1) साहित्य आणि समाज यांचा संबंध समजावून देणे.
मराठी (ऐच्छीक)	UAMAR503	C.O.	2) स्त्रीवादीसाहित्याची माहिती आणि भिन्न कादंबरीतून स्त्रीयांचे अनुभव विद्यार्थ्यांना समजावून देणे.
		C.O.	3) महानगरीयजाणीवेचे साहित्य विद्यार्थ्यांना समजावून देणे व 'दृश्य नसलेल्या दृश्यात' कवितासंग्रहाची

			माहिती देणे.
Paper No. VII	UAMAR504	C.O.	 भाषाशास्त्राच्या विविध शाखा विद्यार्थ्यांना समजावून देणे.
मराठी (ऐच्छीक)		C.O.	 २) स्वनिम्विन्यास विद्यार्थ्यांना समजावून देणे.
मराठा (एफाफ)		C.O.	 रुपिमविन्यास आणि अर्थ विन्यास विद्यार्थ्यांना समजावून देणे.
		C.O.	 कांदाचिर' या कथासंग्रहाआधारेमहानगरीयजीवनातीलसामाजिक, राजकीय, आर्थिक, धार्मिक
Paper No. VIII			स्थित्यंतराची माहिती विद्यार्थ्यांना समजावून देणे.
मराठी (ऐच्छीक)	UAMAR505	C.O.	2) 'भर चौकातीलअर्ण्यरुदन्' या कादंबरीतूनपरप्रांतियांचेमहानगरातीलदुःख विद्यार्थ्यांना सम्जावून देणे.
		C.O.	3) मुंबईतीलसमाजजीवनाचावेध या साहित्य कलाकृतींच्या आधारे घेऊन विद्यार्थ्यांना महानगरीयजीवनाची
			माहिती समजावून देणे.
Paper No. IX		C.O.	1) व्यावसायाभिमुखअभ्यासक्रमाचीओळख करुन देणे.
मराठी (ऐच्छीक)	UAMAR506	C.O.	2) भाषांतर,अनुवाद, रुपांतर, अर्वाचिनीकरण या विषयी माहिती करुन देणे व जागतिकीकरणातील त्याचे
	01101110000		महत्त्व सांगणे.
		C.O.	 विद्यार्थ्यांना आकलनकोशल्य, भाषांतरकोशल्य समजावून देणे.
SEMESTER - VI	-		
		C.O.	 शाहिरी वाङ्मयाची ओळख करुन देणे व विद्यार्थ्यांना तसे काव्य लिहिण्यास प्रवृत्त करणे.
Paper No. IV	UAMAR601	C.O.	2) नाथपंथ, दत्तपंथ यांची ओळख विद्यार्थ्यांना करुन देणे.
मराठी (ऐच्छीक)		C.O.	3) हिंदू धर्माखेरीज इतर पंथीयांनी निर्माण केलेल्या वाङ्मयाची माहिती विद्यार्थ्यांना करुन देणे.
		C.O.	4) बखरगद्याचीओळख करुन देणे.
		C.O.	1) साहित्याबाबतपाश्चात्यसाहित्यिकांच्याविचारांची माहिती करुन देणे.
Paper No. V	UAMAR602	C.O.	2) पाश्चात्यसाहित्यिकांचेसाहित्याविषयीचे विचार विद्यार्थ्यांना सांगणे.
मराठी (ऐच्छीक)		C.O.	3) प्राचीन आणि पाश्चात्य साहित्य विचारवंतांबाबतसाहित्याच्यासुरुवाती पासून ते आजपर्यंतचा अभ्यास
			विद्यार्थ्यांचा चांगला होण्यासाठी प्रयत्न करणे.
		C.O.	1) सामाजिकस्थित्यंतरे व मराठी साहित्य या विषयी विद्यार्थ्यांना माहिती देणे.
Paper No. VI मराठी (ऐच्छीक)		C.O.	2) ग्रामीण साहित्य कलाकृती 'ऐसेकुणबीभूपाळ' या कादंबरीच्या आधारे विद्यार्थ्यांना ग्रामीण समस्यांची
	UAMAR603		माहिती देणे.
		C.O.	3) दलित साहित्य संकल्पना समजावून सांगून 'जाता नाही ती जात' या नाट्यकलाकृतीच्या आधारे
			समाजातील जातीय समस्या किती भयावह आहे याची माहिती विद्यार्थ्यांना करुन देणे.

		C.O.	 साहित्याचासमाज मनावर कसा परिणाम होतो, तसेच साहित्य निर्मिती ही कशी घडत असते, याची माहिती विद्यार्थ्यांना करुन देणे.
Paper No. VII मराठी (ऐच्छीक)	UAMAR604	C.O. C.O. C.O.	 मराठी व्याकरणव नियम याचे पालन विद्यार्थ्यांनी करावे याकरीता शब्दांचेवर्गीकरण, पारंपारिक व आधुनिकता विद्यार्थ्यांना समजावून देणे. विकरण, लिंग, वचन, विभक्ती विद्यार्थ्यांना समजावून देणे. शब्दसिद्धी व प्रयोग विचार विद्यार्थ्यांना समजावून देणे. यामुळे विद्यार्थ्यांचे भाषेविषयीचे ज्ञान वृद्धींगत होऊन व्यवहारात भाषाप्रयोग कसा करावा हे समजते.
Paper No. VIII मराठी (ऐच्छीक)	UAMAR605	C.O. C.O. C.O.	 'साकल्याच्याप्रदेशात' या कवितासंग्रहाआधारेनवकाव्यातीलसामाजिकतेचे, जागतिकतेचे, जागतिकीकरणाचे, बदलत्या पर्यावरणाचे दर्शन विद्यार्थ्यांना करुन देणे. 'किरवंत' या नाटकाआधारेसमाजामध्ये कशा अनिष्ट प्रथा परंपरेनुसार चालत आलेल्या आहेत याची विद्यार्थ्यानाओळख करुन देणे. विद्यार्थ्यांना समाजात नैतिकतेचीओळख करुन देणे, समाज सुसंस्कृत घडावा या संदर्भातील त्यांचे कर्तृत्वाची जाणीव करुन देणे.
Paper No. IX मराठी (ऐच्छीक)	UAMAR606	C.O. C.O. C.O.	 मुलाखत - महत्त्व विशद करुन जीवनातमुलाखतीला कसे महत्त्व असते ते सांगणे. प्रसारमाध्यमांमध्येमुलाखततंत्र कसे हाताळावे याचे कौशल्य समजावून देणे. ग्रंथपरीक्षणाचेकौशल्य विद्यार्थ्यांना समजावून देणे. विद्यार्थ्यांना व्यावहारीकजीवनात या विषयांच्याअध्ययनामुळे स्वतःला दुभाषिक, भाषांतरकर्ता, रुपांतरकर्ता म्हणून प्रसारमाध्यमातून व शासकीय सेवा करता येते.
The level of attain	ment of B.A. Mai	rathi pr	ogramme :- 100%
तृतिय वर्ष वाणिज्य म	राठी		
SEMESTER - V	1		
	Paper No. 101	C.O. C.O. C.O.	 'इडली, ऑर्कीड आणि मी' या व्यावसायिक स्वरुपाच्याकादंबरीतून विद्यार्थ्यांना व्यवसाय करण्याची प्रेरणा देणे. जीवनातकितीहीसंकटे आली तरी जिद्द, कष्ट व साहस असेल तर जगातनावलौकिकमिळवता येतो याची जाणीव विद्यार्थ्यांना करुन देणे. व्यावहारिक मराठी मधून विद्यार्थ्यांना भाषांतरकौशल्य, पत्रव्यवहाराचेकौशल्य समजावून देणे.
		C.O.	 विबंधामुळेवैचारिकतावाढविणे.

SEMESTER - V	I		
		C.O. 1) 'भोवळ' या कादंबरीतून शेअर्स मार्केटचीमाहिती विद्यार्थ्यांना करुन देणे.
		C.O. 2) शेअर्स मार्केटच्याउलाँढालीमध्ये कसे घोटाळे केले जातात याचे वास्तवदर्शनविद्यार्थ्यांना कादंबरीच्या आधारे करुन देणे.
	Paper No. 201	C.O. 3) 'निवृत्त' झालेल्या नानांचे पतसंस्थेच्या घोटाळ्यामुळे लाखो रुपये बुडतात. अशा भ्रष्टाचारीप्रवृत्तीचे दर्शन विद्यार्थ्याना करुन देणे.
		C.O. 4) व्यावहारिक मराठी मधून समाजामध्ये, कंपन्यांमध्येसंवादकौशल्य कसे साध्य करावे याची माहिती विद्यार्थ्याना देणे.
PROGRAMME	· B A Hindi		
SEMESTER I	. D.A. IIIIui		
SEMESTERT		CO - 1	आधुनिक हिंदी गद्य-पद्य साहित्य का परिचय हुआ
Hindi	UAHINCOM101	CO - 2	हिंदी कहानियों का महत्त्व समझा
Compulsory	UAHINCOWIUI	CO - 3	मानक हिंदी का परिचय हुआ
PAPER –I		CO - 4	हिंदी पद्य साहित्य से परिचय हुआ
Hindi Ancillary		CO - 1	हिंदी कहानीकारों से परिचय हुआ
PAPER –I	UAHIN101	CO - 2	हिंदी कहानी का महत्त्व समझा
(Optional)		CO - 3	कथेत्तर गद्य से परिचय हुआ
SEMESTER II		1	
		CO - 1	कहानी विधा का परिचय हुआ
Hindi	UAHINCOM102	CO - 2	हिंदी के प्रतिभाशाली कवियों का साहित्य परिचय हुआ
Compulsory		CO - 3	मानक हिंदी का परिचय हुआ
TT' 1' A '11	UAHIN201	CO - 1	हिंदी की विधाओं के संदर्भ में ज्ञान मिला
Hindi Ancillary	0/1111/201	CO - 2	उपन्यास साहित्य की जानकारी मिली
SEMESTER III			

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मध्यकालीन एवम		CO - 1	प्राचीन काव्य और आधुनिक काव्य का परिचय हुआ∣
-	UAHIN301	CO - 2	संतों के विचारों से छात्र परिचय हुआ∣
आधुनिक काव्य Paper II		CO - 3	राष्ट्र के प्रति गौरव तथा सर्वधर्मसमभाव जैसे नितीमुल्य का महत्व काव्यद्वारा समझाया
r aper 11		CO - 4	छात्रों को कविताए लिखने के लिए प्रेरणा मिली
प्रयोजन मूलक		CO - 1	प्रयोजनमूलक हिंदी का ज्ञान मिला∣
हिंदी Paper	UAHIN302	CO - 2	अनुवाद विधा की जानकारी मिली
III		CO - 3	विज्ञापन प्रक्रिया को समझा
SEMESTER IV			
आधुनिक हिंदी		CO - 1	उपन्यास विधा की जानकारी मिली∣
गद्य	UAHIN401	CO - 2	निबंध विधा की जानकारी मिली∣
Paper II		CO - 3	नाटक विधा की जानकारी मिली
·		CO - 1	जनसंचार माध्यमों से परिचय हुआ
जनसंचार माध्यम	UAHIN402	CO - 2	समाचार क्षेत्र की जानकारी मिली
Paper III		CO - 3	इलेक्ट्रॉनिक माध्यमों का महत्त्व समझा
SEMESTER V			
		CO - 1	हिंदी साहित्य के इतिहास का परिचय हुआ
हिंदी साहित्य का	UAHIN501	CO - 2	आदी कालीन हिंदी साहित्य का परिचय हुआ
इतिहास Paper IV	011111001	CO - 3	भक्ति कालीन हिंदी साहित्य का परिचय हुआ
		CO - 4	रीति कालीन हिंदी साहित्य का परिचय हुआ
स्वातंत्र्योत्तर हिंदी	UAHIN502	CO - 1	काव्य नाटक विधा का परिचय हुआ∣
साहित्य Paper V	0/1111/002	CO - 2	रेखाचित्र से परिचय हुआ
		CO - 3	संस्मरण की जानकारी मिली
हिंदी में सूचना		CO - 1	सूचना प्रौद्योगिकी की आवश्यकता समझी
प्रौद्योगिकी	UAHIN503	CO - 2	इंटरनेट और हिंदी का महत्त्व समझा
Paper VI		CO - 3	सूचना प्रौद्योगिकी का प्रयोग किया

साहित्य समीक्षा :		CO - 1	साहित्य समीक्षा, स्वरुप, साहित्य तत्त्व, हेतू, प्रयोजन की जानकारी मिली∣
स्वरुप एवम्	UAHIN504	CO - 2	काव्य के विभिन्न रुप (महाकाव्य, खंडकाव्य, मुक्तकाव्य, गीत, गजल) आदी से परिचय हुआ
सामान्य परिचय		CO - 3	छंदों की जानकारी मिली
Paper VII		0-5	छदा का जानकारा मिला
भाषा विज्ञान हिंदी		CO - 1	भाषा के विविध रुपों की जानकारी मिली
भाषा और	UAHIN505	CO - 2	भाषा परिवर्तन के विभिन्न कारणों से परिचय हुआ
व्याकरण Paper		CO - 3	भाषा विज्ञान की उपयोगिता की जानकारी मिली
VIII		CO - 4	हिंदी व्याकरण की जानकारी मिली
आधुनिक हिंदी		CO - 1	भारतीय नवजागरण आंदोलन समझा
साहित्य की	UAHIN506	CO - 2	सत्यशोधक समाज की जानकारी मिली
वैचारिक पृष्ठभूमि		CO - 3	मार्क्सवाद से परिचय हुआ
Paper IX			
SEMESTER VI			
आधुनिक हिंदी		CO - 1	आधुनिक हिंदी कविता के विकास की जानकारी मिली∣
साहित्य का	UAHIN601	CO - 2	आधुनिक हिंदी साहित्य पृष्ठभूमि प्रवृत्तियों की जानकारी मिली∣
इतिहास Paper		CO - 3	आधुनिक हिंदी गद्य के इतिहास की जानकारी मिली∣
IV			
स्वातंत्र्योत्तर हिंदी		CO - 1	हिंदी गीतों से लगाव बढा
साहित्य Paper V	UAHIN602	CO - 2	हिंदी गीतों का साहित्यिक महत्व समझा
		CO - 3	हिंदी निबंध विधा का महत्त्व जान लिया
सोशल मिडिया		CO - 1	सोशल मिडिया के प्रकार जान लिये
	UAHIN603	CO - 2	सोशल मिडिया और कानून को जान लिया∣
Paper VI		CO - 3	सोशल मिडिया का प्रयोग किया
साहित्य समीक्षा :		CO - 1	शब्द शक्ति, अर्थ, स्वरुप, प्रकार की जानकारी मिली∣
स्वरुप एवम्	UAHIN604	CO - 2	रस के विविध अंग, स्वरुप, भेद की जानकारी मिली∣
सामान्य परिचय		CO - 3	गद्य के विविध रुप (नाटक, उपन्यास, कहानी, निबंध, आत्मकथा) की जानकारी मिली
Paper VII		CO - 4	अलंकारों से परिचय हुआ

भाषा विज्ञान		CO - 1	प्राचीन और मध्यकालीन भारतीय आर्य भाषाओं की जानकारी मिली
हिंदी भाषा और	UAHIN605	CO - 2	हिंदी के विभिन्न बोलियों से सामान्य परिचय हुआ
व्याकरण Paper	UAIIIN005	CO - 3	हिंदी शब्दसमुह की जानकारी मिली
VIII		00 3	
आधुनिक हिंदी		CO - 1	मनोविश्लेषणवाद का स्वरुप समझा
साहित्य की	UAHIN606	CO - 2	दलित साहित्य से परिचय हुआ
वैचारिक पृष्ठभूमि		CO - 3	हिंदी पत्र पत्रिकाओं से परिचय हुआ
Paper IX			~ ~
The level of attai	nment of B.A. Hir	idi programm	ne :- 100%
PROGRAMME	:M.A. Hindi		
SEMESTER I			
हिंदी साहित्य का		CO - 1	हिंदी साहित्य के इतिहास का परिचय हुआ∣
इतिहास PAPER	PAHIN101	CO - 2	आदी कालीन हिंदी साहित्य का परिचय हुआ
_I		CO - 3	भक्ति कालीन हिंदी साहित्य का परिचय हुआ
		CO - 4	रीति कालीन हिंदी साहित्य का परिचय हुआ
काव्यशास्त्र एवम		CO - 1	भारतीय काव्यशास्त्र की जानकारी मिली
साहित्यालोचन	PAHIN103	CO - 2	रस सिद्धांत की जानकारी मिली
Paper 3		CO - 3	हिंदी आलोचकों का सामान्य परिचय मिला
		CO - 4	पाश्चात्य काव्यशास्त्र तथा सिद्धांतो की जानकारी मिली
		CO - 5	पाश्चात्य विचारकों की जानकारी मिली
भाषा विज्ञान		CO - 1	भाषा के विविध रुपों की जानकारी मिली
एवम् हिंदी भाषा	PAHIN105	CO - 2	भाषा परिवर्तन के विभिन्न कारणों से परिचय हुआ
Paper 5		CO - 3	भाषा विज्ञान की उपयोगिता की जानकारी मिली
-		CO - 4	हिंदी व्याकरण की जानकारी मिली
प्राचीन एवम्		CO - 1	संत कबीरदास जी का साहित्य परिचय मिला
मध्यकालीन काव्य	PAHIN107	CO - 2	जायसी के महाकाव्य पद्मावत की जानकारी मिली
Paper 7		CO - 3	गोस्वामी तुलसीदास के साहित्य से परिचय हुआ

SEMESTER II			
हिंदी साहित्य का		CO - 1	आधुनिक हिंदी कविता के विकास की जानकारी मिली∣
इतिहास	PAHIN102	CO - 2	आधुनिक हिंदी साहित्य पृष्ठभूमि प्रवृत्तियों की जानकारी मिली
(आधुनिक काल)		CO - 3	आधुनिक हिंदी गद्य के इतिहास की जानकारी मिली
Paper 2			
काव्यशास्त्र एवम	5	CO - 1	वक्रोक्ति सिद्धांत का सामान्य परिचय मिला
साहित्यालोचन	PAHIN104	CO - 2	पाश्चात्य काव्यशास्त्र सिद्धांतो और विचारकों की जानकारी मिली∣
Paper 4		CO - 3	हिंदी के प्रमुख आलोचकों की जानकारी मिली
		CO - 1	भाषा विज्ञान की विविध शाखाओं का परिचय मिला
भाषा विज्ञान	PAHIN106	CO - 2	रुप विज्ञान, वाक्य विज्ञान, अर्थ विज्ञान की जानकारी मिली∣
एवम हिंदी भाषा Deper		CO - 3	हिंदी की रुप रचना से परिचय हुआ∣
Paper 6		CO - 4	देवनागरी लिपी की जानकारी मिली
प्राचीन एवम्		CO - 1	भ्रमरगीत सार साहित्यिक परिचय मिला
मध्यकालीन काव्य	PAHIN108	CO - 2	मीरा पदावली की जानकारी मिली
		CO - 3	कवी भुषण के साहित्य से परिचय हुआ∣
Paper 8			
SEMESTER III			
आधुनिक गद्य		CO -1	गोदान उपन्यास की जानकारी मिली
आधुानक गंच Paper 9	PAHIN109	CO - 2	निबंध कला को समझा
		CO - 3	कहानी साहित्य से परिचय हुआ
		CO - 1	कामायनी काव्य समझा
आधुनिक काव्य Paper 10	PAHIN110	CO - 2	अज्ञेय की कविता से परिचय हुआ∣
raper 10		CO - 3	मुक्तिबोध की कविता की जानकारी मिली
विविध विमर्श एवं		CO - 1	मैत्रेयी पुष्पा के साहित्य से नारी विमर्श जाना
साहित्य Paper	PAHIN111	CO - 2	ओमप्रकाश वाल्मीकि जी की कविता विद्रोही है
11		CO - 3	आदिवासी जगत की वास्तविकता समझी
मराठी संतो का	PAHIN112.3	CO - 1	संत नामदेव के पदों का परिचय हुआ∣
हिंदी काव्य		CO - 2	संत तुकाराम के अभंग का महत्व समझा

Paper 12.3		CO - 3	संत नामदेव, संत तुकाराम का उपदेश आज अति आवश्यक हैं
विशेष अध्ययन -		CO - 1	डाक बंगला उपन्यास के द्वारा नारी विमर्श समझा
कमलेश्वर Paper	PAHIN113.3	CO - 2	प्रतिनिधी कहानियों का स्वरुप समझा
13.3		CO - 3	देश विभाजन की पीडा का वास्तव समझा
SEMESTER IV			
मराठी से हिंदी		CO - 1	जयंत नारलीकर के साहित्य से परिचय हुआ
अनुदित साहित्य		CO - 2	विं. दा. करंदिकर की कविता प्रभावी हैं
का तुलनात्मक	PAHIN114.2	CO - 3	कोकण के साहित्य, समाज का परिचय हुआ
अध्ययन			
Paper 14.2			
प्रयोजन मूलक		CO - 1	प्रयोजन मूलक हिंदी का स्वरुप समझा∣
हिंदी	PAHIN115.2	CO - 2	राजभाषा की जानकारी मिली
Paper 15.2		CO - 3	संविधान में राजभाषा संबंधी प्रावधान समझा
प्रकल्प लेखन	PAHIN116	CO - 1	अनुसंधान प्रक्रिया से परिचय हुआ∣
Paper 16		CO - 2	शोध का महत्त्व समझा
		CO - 3	साहित्य का अनुशिलन करना आसान हुआ
The level of attain	nment of M.A. Hin	di program	me :- 80%
PROGRAMME	: B.A. ENGLISH		
SEMESTER I			
Communication Skills in English PAPER –I	UACS101	S	lents understood language proficiency by providing adequate exposure to reading and writing kills lents were oriented towards the functional aspects of language
Introduction to Literature Paper PAPER –I (Optional)	UAENG-101	C.O. 1 Students were acquainted with the characteristics of various literary genres. C.O. 2 Students understood to write clearly, coherently and effectively about various genres of literature	
SEMESTER II		•	

Communication Skills in English PAPER –I	UACS-201	C.O.1 Students improved listening, speaking, writing skills of the students. Students understood the process of communication and its effect on giving and receiving information
Introduction to Literature Paper: PAPER –I	UAENG-201	C.O. 1 Students recognized the culture and context of the work of literature Students developed sensitivity to nature and fellow human beings
(Optional)		
SEMESTER III		
Business Communication PAPER –II	UABC301	C.O. 1 Students developed awareness about the complexity of communication in a dynamic business environment.C.O. 2 Students were well acquainted with the effective use of communication.
Indian Literature in English PAPER –II (Optional)	UAENG301	C.O. 1 Students were introduced to the uniqueness of Indian Literature in English C.O. 2 Students were well acquainted to the pluralistic dimensions of Indian Literature in English
American Literature PAPER –III	UAENG302	 C.O. 1 Students were well acquainted with the various genres and literary terms of twentieth century American Literature C.O. 2 Students understood various themes and styles of American Literature
SEMESTER IV		C.O. 2 Students understood various memes and styles of American Enerature
Business Communication PAPER –II	UABC-401	C.O. 1. Students developed effective oral, writing and listening skills among learners.C.O. 2 Students developed Listening, Speaking, Reading and Writing skills and should be prepared to meet the challenges of Communication in the business world
Indian Literature in English PAPER –II (Optional)	UAENG-401	C.O.1. Students understood the different genres of Indian Literature in English C.O.2 Students were familiarized with different perspectives of approaching this literature
American Literature, Paper III	UAENG-402	 C.O. 1. Students were familiarized with the socio-cultural milieu of twentieth century America through literary texts C.O. 2 Students were introduced with cross-cultural perspectives and discussions on American Literature
SEMESTER - V		

16^{th} to 18^{th}		a a transmission of the state o
Century English	UAENG-501	C.O. 1. Students were introduced with English Literature of the 16 th , 17 th and 18 th centuries C.O. 2. Students understood the distinctive features of English literature of the 16 th , 17 th and 18 th
Literature: Paper	UAENG-JUI	centuries
No. IV		
Literary Criticism:	UAENG-502	C.O. 1. Students were familiarized with important critical terms
Paper No. V A- Grammar and		C.O. 2. Students understood the nature and function of literature and criticism
A- Grammar and Art of writing:	UAENG-503	C.O. 1. Students understood a basic of phonetics, morphology and word transformation
Paper No. VI	UALING-303	C.O. 2. Students improved speaking skills.
19 th Century		C.O. 1. Students were introduced with literary works in their dynamic interface with the healteround
English Literature:	UAENG-504	C.O. 1. Students were introduced with literary works in their dynamic interface with the background C.O. 2. Students understood the literature of the 19 th century.
Paper No. VII		
20th Century		C.O. 1. Students were introduced with literary genres, trends, and literary movements of Britain in the
British Literature:	UAENG-505	20th Century. C.O.2. Students were acquainted with comprehensive understanding of literary genres trends and
Paper No. VIII		movements in 20th Century British Literature.
B- Drama and		
Theatre:	UAENG-506	C.O. 1. Students were introduced the social and artistic movements that have shaped theatre and drama.
Paper No. IX	Chilling 500	C.O. 2. Students were familiarized with the discipline-specific skills to the creation of drama.
SEMESTER - VI		
16^{th} to 18^{th}		C.O. 1. Students were acquainted with how background influences shaped the writer's thinking.
Century English	UAENG-601	C.O. 2. Students understood how background influences shaped the writer's thinking.
Literature: Paper	UALING-001	
No. IV		
Literary Criticism:	UAENG-602	C.O. 1. Students were familiarized with the technique of close reading of literary texts C.O. 2. Students understood the various literary theories and critical approaches
Paper No. V		C.O. 2. Students understood the various metary theories and cruical approaches
A- Grammar and		C.O. 1. Students were acquainted the rules of grammar, grammatical analysis and sentence
Art of writing:	UAENG-603	transformation
Paper No. VI		C.O. 2. Students understood to write effectively in various domains.

19th Century English Literature: Paper No. VII	UAENG-604	 C.O. 1. Students learned to appreciate poetry as mirroring private personality, protest and subsequently, public concerns C.O. 2. Students were acquainted with the development of the Victorian Novel .
20th Century British Literature: Paper No. VIII	UAENG-605	C.O. 1. Students understood to create linkages between social and historical contexts and literary texts . C.O. 2. Students understood the skills for a critical and analytical understanding of the text.
Drama and Theatre: Paper No. IX	UAENG-606	C.O. 1. Students were acquainted with the difference between the concepts of drama and theatre. C.O. 2. Students understood the history of drama and theatre as a literature and performing art.
The level of attain	ment of B.A. En	glish programme :- 86.66%
PROGRAMME	M.A. ENGLISH	I
SEMESTER - I		
Literary Theory and Criticism	PAENG-101	C.O. 1. Students were introduced to a wide range of critical methods and literary Theories.C.O. 2. Students understood to use the various critical approaches and advanced literary theories.
Linguistic and Stylistic Analysis of Text	UAENG-102	C.O. 1. Students understood the concept of style in literature.C.O. 2. Students understood the linguistic basis of literary criticism
Fiction	PAENG-103	C.O. 1. Students were familiarized with different genres in fiction.C.O. 2. Students were familiarized with different types of fictional narratives.
Drama	PAENG-303	C.O. 1. Students were introduced to a wide range of theatrical practices around the world. C.O. 2. Students were introduced to various theories of drama
SEMESTER - II	·	
Literary Theory and Criticism	PAENG-201	C.O. 1. Students understood to mobilize various theoretical parameters in the analysis of literary and cultural textsC.O. 2. Students were familiarized with the trends and cross-disciplinary nature of literary theories

Linguistic and Stylistic Analysis of Text	UAENG-202	C.O. 1. Students understood to use stylistic approach in teaching literature.C.O. 2. Students understood the impact of stylistic analysis on academic writing
Fiction	PAENG-203	C.O. 1. Students were well acquainted with an idea of the growth of fiction over the period of the last three centuries.C.O. 2. Students understood the social, cultural and psychological implications of Fiction.
Drama	PAENG-403	C.O. 1. Students understood the elements of drama and theatre C.O. 2. Students were introduced with the conventions of research papers
SEMESTER - III		
Poetry from Chaucer to the Present	PAENG-301	 C.O. 1. Students were familiarized with the major representative poets of every age and movements therein. C.O. 2. Students were familiarized with different genres of poetry in the context of socio- cultural background of the age
Nineteenth Century American Literature	PAENG-302	 C.O. 1. Students understood to appreciate American literature by reading aesthetically and not just for knowledge/information C.O. 2. Students understood to analyze the rhetorical strategies that American authors employ
Twentieth Century American Literature	PAENG-303	 C.O. 1. Students were acquainted with the various genres and literary terms of twentieth century American Literature C.O. 2. Students were introduced to the socio-cultural milieu of twentieth century America through literary texts
Shakespeare	PAENG-304	C.O. 1. Students were familiarized with timeless dimensions of Shakespeare's works.C.O. 2. Students were familiarized with the contemporary relevance of Shakespeare with reference to modern versions and films based on his plays.
Indian Writing in Translation	PAENG-305	 C.O. 1. Students were familiarized with the study of Indian literatures in the various Indian languages through English translation. C.O. 2. Students were acquainted with major movements, trends and tendencies beside major authors and literary texts in multiple languages in India through English translation.
SEMESTER - IV		
Research Methodology	PAENG-306	C.O. 1. Students understood the concept of 'research' C.O. 2. Students were familiarized with the procedures involved in research.

Political Reading of Literature	PAENG-307	C.O. 1. Students were familiarized with literature as an institution embedded in cultural politics C.O. 2. Students were introduced with literary texts, mediate dominant ideologies.
Project Based Courses		 C.O. 1. Students were familiarized with critical competence, logical reasoning and scholarly composition regarding to the research. C.O. 2. Students learned to develop the skills of identifying an area of their research.
The level of attain	nment of M.A. B	English programme :- 87.50%
PROGRAMME		
SEMESTER - I		
Micro Economics		 CO1 Students will be aware about principles of economics and role of government in economy. CO2 Students will be aware about scientific method, study of micro economics and basis of growth. CO3 Students will be aware about the study of market, demand and supply, and relationship between price elasticity of demand and revenue. CO4 Students will be aware about specialization and trade opportunity cost and comparative cost.
SEMESTER - II		
Macro		 CO1 Students will be were aware about circular flow of income and understand the concept GDP, GNP, NNP. CO2 Students will be aware about national income identity and study the concept of consumption saving
Economics		 and investment. CO3 Students will be aware about source of tax revenue and non tax revenue, public expenditure. CO4 Students will be understood balance of payments and concept of FOREX.
SEMESTER - III		
Demography-I		 CO1 Students will be aware about nature and scope of demography and theories of population. CO2 Students will be aware about scientific features of census and demographic survey. CO3 Students will be aware about techniques of analysis and study of fertility.
Indian Economy: Contemporary Concerns		 CO1 Students will be aware of fiscal framework fiscal rules impact on deficits. CO2 Students will be aware of demonetization benefits, analysis short term impact and success. CO3 Students will be aware of the concept of universal basic income. CO4 Students will be aware of the terminologies of income health and fertility.
Micro-		CO1 Students will be aware about utility as representation of preference.

Economics		CO2	Students will be aware aboutproduction function in short and long run.
		CO3	Students will be aware about cost and revenue relationship in short and long run.
		CO4	Students will be aware about with competitive market such as perfect competition and monopoly
			competition.
SEMESTER - IV			
		CO1	Students aware familiar supply of money CRR, CDR in India
Macro		CO2	Students aware familiar market equilibrium derivation of LM Curve
Economics		CO3	Students aware familiar saving and investment function with derivation of the IS Curve.
		CO4	Students aware familiar money market related monetary policy and its instruments.
		CO1	Students will be aware of Maharashtra's Economy.
Development		CO2	Students will be aware of tribal era with present status poverty overviews of nutrition and health
Issues Of			education.
Maharashtra's		CO3	Students will be aware of water resources, government policy overview of rural and urban water
Economy			supply.
Leonomy		CO4	Students will be aware of committee approach to health, regional disparities, health care system and
			connectivity.
SEMESTER - V			
Micro	ECOMIE501	CO1	The students will be well acquainted with the microeconomic theory in respect to the study of
Economics - III			perfect competition, general equilibrium and welfare economics.
Economics Of		CO1	The students will be aware about the policy options with special emphasis on the path of
Development -	ECOMIE502	COI	development such as inequity, poverty and technological aspects.
VIII			development such as mequity, poverty and technological aspects.
Economics Of	ECOEAC503	CO1	The students will be able to learn the role of agriculture in economic development of the country
Agriculture And	LCOLACJOJ		with understanding of agricultural productivity and agricultural labour. Also, the students will be
Co-Operation			able to understand the aspects of agricultural credit, agricultural marketing and the global problems.
Research		CO1	The students will be acquainted with the concepts, principles and methods of economic research
Methodology:	ECOEAC504		based on qualitative and quantitative data. Also, the students will be able to get insight into the
Paper X			application of modern analytical tools and techniques related economics decision making.
Environmental		CO1	The students will be able to understand the economics causes of environmental problems. Also,
Economics:	ECOEAC505		economic implication of environmental policy will be addressed and will be acquainted with the
Paper Xi			valuation of environmental improvement.

History Of			
Economic	ECOEAC506	CO1	The students will be able to know the economic thoughts of the celebrated economists starting from
Thoughts: Paper	LCOLINCJOU		the classical period. Also, they will be able to study the noble laureates of recent period.
XII			
SEMESTER - VI			
Macro		CO1	The students will be able to understand the macro economic theory with analytical tools with the
Economics – III:	ECOMA-601		understanding of goods market with fixed exchange rate, the money market uncovered interest rate
Paper XIII			parity and the benefits and costs of fixed and flexible exchange rates.
International	ECOINT-602	CO1	The students will be able to know the systematic exposition of models which explains the
Economics:	LCOINT-002		composition, direction, and consequences of international trade and the determinants and effects of
Paper XIV			trade policy. They will also learn the national and international monetary system.
Economics Of		CO1	The students will be acquainted with the various aspects related to the principles of co-operation
Agriculture And	ECOEA-603	COI	and co-operative organization in the globalized economy.
Co-Operation			
Research	ECORM-604	CO1	The critical thinking and listening skills will be strengthened in conducting economic research
Methodology:			among the students.
Paper XVI			
Indian Economic		CO1	The students will be acquainted with the history of Indian economic thoughts with special reference
Thoughts Paper	ECOIET-605		to the economic issues and the workings of the Indian mind in the field of economics.
XVII			
International		CO1	The students will be exposed to the changing phase of international trade policy and practice also
Trade Policy	ECOITPP-606	001	they will be acquainted with the correct trends in international development.
And Practice:			and y will be acquainted with the contest alongs in international development.
Paper XVIII			
The Level of Atta	inment For B.A.	(Econo	omics) Programme Is :- 80.00 %
~		a	
Course: Business	Economics for	Comm	nerce
SEMESTER – I			
Micro	UBCOMFSI.3	CO1	Students are aware about basic tools, opportunity cost principle and use of marginal analysis in
Economics	UDCOMF31.3		decision making.

		000	
			Students are aware about relationship between elasticity of demand and revenue.
			Students are aware about law of variable proportions and laws of returns to scale.
		CO4	Students are aware about accounting cost and economic cost and relationship between short run and
			long run.
SEMESTER - II			
		CO1	Students are awareabout perfect competition and monopoly competition in short run and long run.
		CO2	Students are aware about oligopolistic markets.
Micro Economics	UBCOMFSII.3	CO3	Students are aware about cost-oriented pricing methods under product pricing, transfer pricing in business world.
		CO4	Students are aware about importance of capital budgeting and its type.
SEMESTER - III			
Elements Of		CO1	Students will be aware with the measurement of national product.
Macro		CO2	Students will be aware with features and phases of trade cycles.
Economics		CO3	Students will be aware with investment functions and marginal efficiency of capital.
Preamble		CO4	Students will be aware with money supply demand for money price and inflation.
SEMESTER - IV			
Foundation Of		C01	Students will understand sources of public revenue.
		CO2	Students will understand effects of taxation.
Public Finance		CO3	Students will understand significance of public expenditure.
		CO4	Students will understand intergovernmental fiscal relations.
SEMESTER - V			
		CO1	Students will be aware about overview of new economic policy 1991 in India. Also, sustainable
			development goals and foreign investment policy in India.
Macro		CO2	Students will be aware about overview of national agricultural policy, price, and financial system.
Economics		CO3	Students will be aware about small and medium enterprises and disinvestment policy.
Aspects of India		CO4	Students will be aware about recent trends, challenges in Banking and insurance industry.
SEMESTER - VI			
International		CO1	Students will be aware about theories of international trade, Ricardo's and Heckscher-Ohlin theory
Economics			and terms of trade.

	CO2 Students will be aware about commercial trade policy, free trade and protection, tariff and non-tariff
	barriers.
	CO3 Students will beaware about balance of payments and international economic organization.
	CO4 Students will be aware about foreign exchange market and role of central bank in foreign exchange
	rate management, managed flexible exchange rate system of India.
PROGRAMME : M.A. EC	UNOMICS
SEMESTER - I	
	CO1 Students will be able to know the consumer's behaviour, income and substitution effects and indirect utility.
Minut	CO2 Students willbe able to understand the concept of production function, law of variable proportions
Micro Economics –I	and problem of profit maximization for a firm.
Economics –1	CO3 Students will be able to know the price and output determination under perfect competition market
	failure.
	CO4 Students will beaware about features of monopoly and welfare effects of monopoly.
Macro	CO1 The students were able to know the macroeconomics accounting stocks and flows, the
Economics	determination of natural economics, the open economy, macro foundation of macroeconomics.
04-4	CO1 Students will be aware about basic laws of probability and some main theorems of covariance correlation.
Statistical Methods In	CO2 Students will be aware about various tests of hypothesis (t, f, z test)
Economics	CO3 Students will be aware about linear regression with respect to R.
Economics	CO4 Students will beaware about problems in simple linear regression model.
	CO1 Students will be aware about economic growth and structural changes in capabilities, entitlements
	and deprivation and measurement of development.
Economics Of	CO2 Students will be aware about modern theories of growth and distribution Harrod- Domar, Solow
Development – I	Model, Roomer and Lucas Model.
	CO3 Students will be aware about micro-economics of development segmentation of rural land, labour
	capital, credit, micro finance.
	CO4 Students will be aware about macro-economics of development environmental problems and

	sustainable development.
SEMESTER - II	
Public Economics	 CO1 Students will be aware about the role of government in market economy of social welfare. CO2 Students will be aware about public expenditure. Also why the government is increasing public expenditure in economy? CO3 Students will be aware about basic concept of tax theory. Also what are the benefits of direct and indirect tax for constructing social welfare? CO4 Students will be aware about new concept of tax in Indian economy.
Mathematical Techniques For Economics	 CO1 Students will be aware about set theory related to economics. CO2 Students will be aware about derivative, integration and its application in economics. CO3 Students will be aware about constrained optimisation, language multiplier application in economics. CO4 Students will be aware about basic operations of matrices and simultaneous equations with matrices
Micro Economics –II	 CO1Students will be aware about introduction to game theory and certainty equivalence. CO2Students will be understood the market oligopoly and law of Cournot, Bertrand and Stackelbarg model. CO3 Students will be aware about moral hazard adverse selection, principle agent model and asymmetric information. CO4 Students will be able to understand theories of the firm.
Macro Economics –II	 CO1 Students will be aware of various concepts like imperfectly flexible prices, price setting under imperfect competition, menu costs, real rigidity and quadratic price adjustments. CO2 Students will be aware of DGGE model, wealth effects and government budget constraint, money/ bond finance and riparian equivalence. CO3 Students will be aware of new keynesian economics, diseuilibrium, multiple equilibrium, hysterisis reconstructing the keynesian multiplier, the nk model of inflation. CO4 Students will be aware of macroeconomic policy, rules versus discretion, credibility and reputation, dynamic inconsistency and unconventional monetary policy inflation targeting and exchange rates.
SEMESTER - III	
International Trade: Theory And Policy	 CO1 Students will be aware about the theoretical exposition of business, effects and the restriction on free flow in international trade with the empirical evidence is depending advantage of trade. CO2 Students will be aware about classical and non-classical international trade theory with advantages

	and disadvantages of international trade. CO3 Students will be aware about modern theory of international trade, module providing information, concept of international-industry trade role in economy.
Economy Of Agricultural Product And Rural Market	 CO1 Students will be aware about the course aims at providing utilization on natural resources in agricultural production for increase production and productivity of agricultural sector. CO2 Students will be able to understand financial problem in agricultural sector. Also provide information about organised banking sector, role after established bank sector in India. CO3 Students will be able to understand concept and problems of agricultural labour. CO4 Students will be aware about agricultural and land reforms in India.
Economics Of Labour Market	 CO1 Students will be aware about nature of the labour market and theory of human capital. CO2 Students will be aware about the theory of labour, theory of demand and supply. CO3 Students will be aware of the wages issues in labour market, wages structure and components of wages. CO4 Students will be able to understand employee turnover linkages in labour markets and social securityand infant and child mortality rate. CO5 Students will be able to understandmigration and population projections.
Agricultural Development And Policy	CO1 The students will be able to understand the concept of agricultural development, the factors leads to agricultural development and the share of agriculture in GDP.
Environmental Economy	 CO1 Students will be aware about the knowledge of economic growth that is depending on natural resources. Also about the concept of sustainable development. CO2 Students will be aware about role of environment for human man well- being, protection through micro foundation on environmental economy. CO3 Students will be aware about types of pollution. Also about world pollution impact on human well - being. CO4 Studentswill be aware about the concept of save environment, Also regarding kind of policy government declared for save environment.
SEMESTER - IV	
Economics Of Human	CO1 Students will be aware about growth and development compared to human development, basic needs, quality of life, and capability approach.

	CO2 Students will be aware about aware the concept of dimensions of human development and measurement of HDO and PQLI
	CO3 Students will be aware about the concept of measurement of economic and social measurement of human equality of life.
	CO4 Students will be aware about social security with education and health.
	CO1 Students will be aware about population science, demography and economic development, theory of demography transition
	CO2 Students will be aware about the basic concepts of nuptiality and fertility.
	CO3 Students will be aware about the basic concepts of morbidity, mortality, and infant and child mortality rate.
	CO4 Students will be able to understand the concepts of migration and population projection.
	CO1 Students will gain first-hand information on various topics of their project work. They will get
	exposure to application of various research techniques, interview techniques, drafting of reports.
	They will understand about various social issues prevailing in the society. This will help them while
	pursuing their higher studies.
inment For M.A	. (Economics) Programme Is :- 71.42 %
B.A. GEOGRA	PHY
	CO1 To know the fundamentals of Physical Geography.
	CO2 Understand latitudes, longitudes and international dead line.
UAGEO101	CO3 Acquire knowledge about origin of various landforms.
UNGLOIDI	CO4 Understand the work of internal coerces.
	CO5 Acquire knowledge of external forces.
	CO6 Study the land forms and process.thermodynamic process.
UAGEO201	CO1 To understand the Human Geography as a basic branch of Geography along with the Dichotomy Environmentalism and Possibilisum
	CO2 It aims to understand the Racial groups in the world and man- environment conflict and Ecological
	crises
	CO3 To understand world population growth and distribution and it also aims to familiarize the students
	UAGEO101

		to the population policies.
SEMESTER - III	[
An Introduction To Climatology	UAGEO301	 CO1 Students should know the fundamental branches of Geography in general and Climatology in particular. CO2 Students should get acquainted with the climatologically Concepts. CO3 Students should know the basis of Human development by studying these Physical branches of geography
An Introduction To Oceanography	UAGEO302	 CO1 Understand importance of ocean. CO2 Knowledge about effect of ocean Currents. CO3 Understand human impacts on Ocean. CO4 Study about types of tides. CO5 To make aware about jadeites use of water. CO6 To understand Watershed management and water harvesting Structure.
SEMESTER - IV	,	
Physical Geography Of India	UAGEO401-	 CO1 To acquaint the students with distinct dimensions of India. CO2 To focus the climate of India and mechanism of monsoon of India. CO3 To make students aware of the magnitude and nature of problem & Prospectus of national & state level on geographical basis. CO4 To understand the physical setup of the country.
Agricultural Geography Of India	UAGEO402-	 CO1 To understand the concept and development of Agriculture. CO2 To examine the role of agricultural determinants towards the changing cropping pattern. CO3 To study the Green Revolution. CO4 The course also aims to familiarize the students with the Agricultural concepts and modern technologies used in Agriculture
SEMESTER - V		
Geography Of Settlements	UAGEO501	 CO1 To Study the basic of Urban & Rural Geography. CO2 To Study the types of Urban & Rural Settlements, site & Situation. CO3 To get the ideas of relationship between human activities & urban development. CO4 To make the students capable for handling the present problematic situation in Urban and rural areas. CO5 The students studying this syllabus will become good planner and environmental Conservator.

		CO1 Understand the history of population
Population	UAGEO502	CO2 Understand the types of data
Geography		CO3 Study of distribution and density of population.
		CO4 Get knowledge of population theories
Teels And		CO1 To introduce the students with the importance of field work & advanced Techniques in Geography.
Tools And		CO2 To provide training in application of modern tool & techniques in Geography.
Techniques In	UAGEO503-	CO3 To enhance the skill of the students in instrumental survey.
Geography For		CO4 To enable the students to understand the use of computer for analysis of Geographical data.
Spatial Analysis		CO5 To give basic information to the students about Arial Photographs, Remote Sensing, GIS and GPS.
D - 6 1		CO1 Understand the concept of regional planning and development
Refional		CO2 Understand the process and politics in regional planning
Planning And	UAGEO504	CO3 Study and Problems of urban development
Development		CO4 Study the value of regional planning and development
		CO1 Understand Structure, Components of Atmosphere.
		CO2 Study about Nutrient cycling.
Geography Of	UAGEO505	CO3 Understand the value of Resource.
Resources		CO4 Understand the types of Resource.
		CO5 Get knowledge about environmental hazards and management.
		CO6 Make aware about conservation of resources.
Geospatial	UAGEO506	CO1 To introduce the students with the importance of field work & advanced Techniques in Geography.
1		CO2 To provide training in application of modern tool & techniques in Geography.
Technology		CO3 give basic information to the students about Arial Photographs, Remote Sensing, GIS and GPS.
SEMESTER - V	Τ	
		CO1 Understand Structure, Components of Atmosphere.
		CO2 Study about Nutrient cycling.
Environmental Geography	UAGEO601	CO3 Acquire knowledge about biodiversity.
		CO4 Understand environmental problems there Cause, Effect and Remedies.
		CO5 Get knowledge about environmental hazards and management.
		CO6 Understand the various environmental protection acts.
Geography Of		
Tourism And	UAGEO602	CO1 Understand the history of tourism
Recreation		CO2 Understand the types of tourism

		CO3 Study of new trends of tourism
		CO4 Get knowledge of tourism law
Tools And Techniques In	UAGEO603	CO1 To introduce the students with the importance of field work & advanced Techniques in Geography. CO2 To provide training in application of modern tool & techniques in Geography. CO3 To enhance the skill of the students in instrumental survey.
Geography For Spatial Analysis		CO4 To enable the students to understand the use of computer for analysis of Geographical data. CO5To give basic information to the students about Arial Photographs, Remote Sensing, GIS and GPS.
Economic Geography	UAGEO604	CO1 To acquaint the students with distinct dimensions of India.CO2 To understand the economic setup of the country.CO3 To get information about air ways, railways, and road ways in India.CO4 To get information about transport and trade in India
Social Geography	UAGEO605	 CO1 Understand the nature, scope, and concept, relationship between culture and social environment, and right of information act. CO2 Evolution to civilization and various cultural development and cultural system according to religion, language and geography, and global cultural changes. CO1 Understand the concept of space and social process and present status. CO2 Understand the concept of space and social process and present status
Research Methodology	UAGEO606	 CO1 To understand the concepts in research methodology. CO2 To give basic information to the students about research. CO3 To get familiar with principles and techniques of research. CO4 To understand the process and value of geographical research. CO5 To develop skills for applying ICT in geography. CO6 To aware the students research methodology with recent technology.
The level of attain	ment of B.A. Ge	ography programme:- 100%
PROGRAMME	B.A. PSYCHOI	LOGY
SEMESTER – I		
Fundamental of Psychology I & II	UAPSY-101 & UAPSY- 102	CO1 Aware oneself of basic concepts and modern trends in Psychology CO2 Create an interest in further studies in psychology CO3 Apply the psychological concepts in different areas of day to day life
SEMESTER – II		

Social Psychology I & II	UAPSY - 201 & UAPSY - 202	 CO1Demonstrate a familiarity with key concepts in social psychology and research method of social psychology. CO2 Apply social-psychological theories to understand a range of human social behaviour CO3 Communicate social psychological theory and research both orally and in writing.
SEMESTER – II	I	
Developmental Psychology I & II	UAPSY - 301 & UAPSY - 302	 CO1 Construct and interpret an overview of developmental psychology. CO2 Interpret evidence through typical research methods used to understand human development. CO3 Explain and evaluate the major psychological theories as they apply for human development. CO4 Analyse the change that occurs through physical, cognitive and psychosocial development from conception to adolescence.
SEMESTER – IV	/	
Psychology of Adjustment I & II	Applied Component- UAPA4A1 & UAPA4A2-	CO1 Understand the basic concepts and modern trends in Psychology of Adjustment CO2 Take interest in Psychology of Adjustment as a field of study and research CO3 Apply various concepts in Psychology of Adjustment in the Indian context
SEMESTER – V	-	
Psychological Testing and Statistics I	UAPS- 504	CO1 Understand the nature, uses, technical features, and the process of construction of psychological tests CO2 Become aware about the measurement of intelligence and personality CO3 Understand the concepts in statistics and the various measures of Descriptive Statistics
Abnormal Psychology I	UAPS-505	CO1 Understand the basic concepts in Abnormal Psychology and the theories of abnormality CO2 Understand the different psychological disorders – their symptoms, diagnosis, causes and treatment CO3 Aware about mental health problems in society CO4 It will laid a foundation for higher education and a professional career in clinical psychology
Industrial – Organizational Psychology- I Paper No. – VI	UAPS-506	 CO1 Understand the basic concepts in and various facets of Industrial and Organizational Psychology CO2 Aware about the role and importance of psychological factors and processes in the world of work CO3 It will create a foundation of post graduate specialization in Industrial and Organizational Psychology and professional career in the same domain.

Cognitive Psychology-I Paper No VII	UAPS 507	 CO1 Understand the fundamental concepts of Cognitive Psychology and the basic cognitive processes CO2 Aware about the various applications of cognitive processes in everyday life and applications in other fields CO3 Provide the theoretical orientations and background for the courses in Practicum in Cognitive Processes CO4 It will larid foundation specialization at post graduate level in cognitive psychology and a career in the field of Cognitive Psychology
Counselling Psychology- I Paper No. –VIII	UAPS -508	 CO1 Understand the nature, process, goals, techniques, ethical issues and major theories in Counselling Psychology CO2 Take interest in the various applications and fields of counselling CO3 It will laid foundation for higher education in Counselling and a career as a professional counsellor
Practicals in Cognitive Processes and Psychological Testing- I Paper No. – IX	UAPS-509	 CO1 Use experimental designs, apply methodology to conduct experiments, statistical analysis, interpretation and discussion of data CO2 Equip oneself with psychological testing : test administration, scoring and interpretation of test scores. CO 3 Familiarize with computer-based experiment (Coglab)
SEMESTER – V	T	
Psychological Testing and Statistics -II	UAPS-604	 CO1 Understand the nature, uses, technical features, and the process of construction of psychological tests CO2 Become aware about the measurement of intelligence and personality CO3 Understand the concepts in statistics and the various measures of Descriptive Statistics
Abnormal Psychology -II	UAPS 605	 CO1 Understand the basic concepts in Abnormal Psychology and the theories of abnormality CO2 Understand the different psychological disorders – their symptoms, diagnosis, causes and treatment CO3 Aware about mental health problems in society CO4 It will laid a foundation for higher education and a professional career in clinical psychology
Industrial – Organizational Psychology - II Paper No. – VI	UAPS -606	 CO1 Understand the basic concepts in and various facets of Industrial and Organizational Psychology CO2 Aware about the role and importance of psychological factors and processes in the world of work CO3 It will create a foundation of post graduate specialization in Industrial and Organizational Psychology and professional career in the same domain.

Cognitive Psychology -II Paper No VII	UAPS -607	 CO1 Understand the fundamental concepts of Cognitive Psychology and the basic cognitive processes CO2 Aware about the various applications of cognitive processes in everyday life and applications in other fields CO3 Provide the theoretical orientations and background for the courses in Practicum in Cognitive Processes CO4 It will larid foundation specialization at post graduate level in cognitive psychology and a career in the field of Cognitive Psychology
Counselling Psychology - II Paper No. – VIII-	UAPS- 608	 CO1 Understand the nature, process, goals, techniques, ethical issues and major theories in Counselling Psychology CO2 Take interest in the various applications and fields of counselling CO3 It will laid foundation for higher education in Counselling and a career as a professional counsellor
Practicals in Cognitive Processes and Psychological Testing – II: Paper No. – IX	UAPS- 609	 CO1 Use experimental designs, apply methodology to conduct experiments, statistical analysis, interpretation and discussion of data CO2 Equip oneself with psychological testing : test administration, scoring and interpretation of test scores Familiarize with computer-based experiment (Coglab)
The level of atta	inment of B.A. F	Sychology programme:- 100%
	Com (Applied C	omponent –Psychology)
Applied Component – Psychology of Human Behaviour at Work (PHBW)		 CO1 Understand the basic concepts and modern trends in the field of Psychology of Human Behaviour at Work and take interest in the field CO2 Aware oneself about the role and importance of psychological factors and processes in the world of work

PROGRAMME : B.Com	
SEMESTER I	

AFM-I	UBCOMFSI.1	CO1. Understand ethical issues related to the accounting profession. CO2. Prepare Financial Statements in accordance with generally accepted accounting principal.
COM – I	UBCOMFSI.2	The students will gain knowledge about- CO1. Introduction to Business CO2. To acquaint the students with the recent development in the trade and industry and its environment. CO3. To induce students towards entrepreneurship.
B.C.	UBCOMFSI.4	CO1: To create awareness about the concept, meaning, definition of communication. CO2: To educate students about the objectives and channels of communication CO3: To impart knowledge about various methods and modes of communication CO4: to explain the barriers in communication and ways to effectively overcome these barriers. CO5: to emphasise the importance of listening skills and technique to cultivate good listening skills
Environmental Studies	UBCOMFSI.5	 CO1. To create an environmental awareness among commerce students. CO2. Make aware students about various environmental factors and its relation to the field of Commerce. CO3. To highlight functional and spatial links between environment, economy and society. CO4. To create an insight into various environmental issues at various levels and environmental movements towards making environment sustainable.
Mathematical and Statistical Techniques	UBCOMFSI.6	CO1. After successful completion of the course, students get able to use concepts base on mathematics and statistics in the field of commerce and industry to solve the real life problems.
SEMESTER II		
AFM-II	UBCOMFSII.1	CO1. To develop critical thinking and problem solving competencies at both individual and group levels.CO2. Ability to organize analyse and interpret numerical and financial data .
COM – II	UBCOMFSII.2	The students will gain knowledge about- CO1. To acquaint the students with the service sector like Banking, Insurance and Information Technology. CO2. To develop analytical skills & managerial skills.
B.C.	UBCOMFSII.4	CO1. To comprehend the concept and techniques of interviews, meetings and conferences. CO2. To gain insight to the concept of public relations, know the functions of PR department. CO3. To develop awareness of crisis management and ways to dealb with crisis. CO4. To develop effective writing skills that will enable students to effectively write trade letters and

		letters to various government and non-government agencies.
		CO5. To be able to draft various types of reports and business proposals.
Environmental Studies	UBCOMFSI.5	 CO5. To create an environmental awareness among commerce students. CO6. Make aware students about various environmental factors and its relation to the field of Commerce. CO7. To highlight functional and spatial links between environment, economy and society. CO8. To create an insight into various environmental issues at various levels and environmental movements towards making environment sustainable.
Mathematical and Statistical Techniques	UBCOMFSI.6	CO2. After successful completion of the course, students get able to use concepts base on mathematics and statistics in the field of commerce and industry to solve the real life problems.
SEMESTER III		
AFM-III	UBCOMFSIII .1	CO1. Apply foundation knowledge and skills necessary to identify problems and generate feasible alternatives.
		CO2. Ability to develop role as sole trader and create partnership firm.
B.LAW	UBCOMFSIII .2	 CO1. To get aerial view of the legal frame work with special reference to various business laws. CO2. To develop awareness of the Indian Contract Act CO3. To gain knowledge of special contracts with reference to Law of Indemnity and Guarantee, Law of Bailment and Pledge and Law of Agency CO4 To develop awareness of Sale of Goods Act CO5 To acquaint with Negotiable Instruments Act
COM – III & IV	UBCOMFSIII .3	On completion of the course learners will be able to understand, CO1. To make the learners aware about conceptual knowledge and evolution of management. CO2. To familiarize the learner with the functions in management
Management Accounting Auditing	UBCOMFSIII .4	 CO1. Encourage and occlusions of knowledge and Skill relating to the application of concepts and Techniques of management accounting. CO2. Able to decision making of Business short and long period
Marketing Management BM-III	UBCOMFSIII .5	 CO1. To understand the concepts of marketing management features importance functions and scope of marketing CO2. To comprehend marketing environment, its types and emerging opportunities. CO3. To understand competition, strategic marketing and SWOT analysis

		CO4. To give insight to the concept of Product- its levels classification, PLC, Product positioning
		CO5. To elucidate the term Pricing – its objectives, factors affecting pricing decisions, methods of
		pricing and steps in pricing
		The course enables the learners will be able to understand.
	UBCOMFSI	CO1. Fundamental of Advertising.
Advertising		CO2. Different role of Advertising in Marketing, economy and society.
ravertising	II.6	CO3. Development and issues concerning contemporary advertising.
		CO4. The Regulatory framework of Advertising.
		CO5. Advertising in India.
		CO1. To understand the vital role of company secretary in management of companies.
	UBCOMFSI	CO2. To gain knowledge about, company secretary practices, company documentation and formation
CSP	II.7	CO3. To create awareness about role of company secretary as advisor, liaison officer, representative
		CO4. To familiarise with the important company documents and procedure of company formation.
		CO5. To explicate secretarial correspondence with various stake holders of the company
SEMESTER IV		
AFM-III	UBCOMFSIV.	CO1. Describe the Financial environment within Organist ion.
	1	CO2. Critically evaluate the financial objectives of company.
	UBCOMFSIV. 2	CO1. To give insights into Indian Companies Act
		CO2. Togive glimpse of Corporate Law and IPR
B.LAW		CO3. To develop awareness Indian Partnership Act
		CO4. To realise the importance of Consumer Protection Act
		CO5. To get knowledge of Competition Act
		The course enables the students to understand,
	UBCOMFSIV.	CO1. To acquaint the learners with the basic concepts of production management, Inventory management
COM –IV		and Quality management.
	5	CO2. To provide basic knowledge about Indian Financial System.
		CO3. To update the learners with the recent trends in Finance.
Management		CO1. Basic knowledge of auditing vouching ,verification and valuation of asset & Liabilities.
Accounting	UBCOMFSIV. 4	CO2. Able to play role of Auditor in firm ,Bank, Company etc.
Auditing	4	
Marketing	UBCOMFSIV.	CO1. To understand Distribution channels, types, functions of middlemen, logistics e-marketing
Ð		

Management	4	CO2. To give insight to the concept of Promotion mix, objectives, factors affecting promotion mix, steps
8		in designing marketing communication plan, Role of social mediain marketing communication
		CO3. To understand the buyer behaviour
		CO4. To educate about Marketing of services
		CO5. To emphasise the emerging issue rural marketing and its importance.
		Learners are able to get vital knowledge about,
	UBCOMSSI	CO1. To get the students acquainted with the working and role of advertising agency.
Advertising	V.5.01	CO2. Media and aspects of media planning.
	V.3.01	CO3. Advertising techniques and practices.
		CO4. Creativity in Advertising.
		CO1. To give broad overview of Management of Companies
COD	UBCOMFSIV.	CO2. To make aware about Company Meetings
CSP	6	CO3. To recognize the importance and application Dematerialization
	0	CO4. To familiarise with the concept and technique of Online Trading
		CO5. To introduce various concepts of Dividend, Dividend Reinvestment Plan (DRIP) Company Reports
SEMESTER V		
		On completion of the course learners will be able to,
B.M – I		CO1. acknowledge the need for formal management education.
Management and	UBCOMTSVI	CO2. Acquire skills for becoming effective managers.
Organization	.1.3	CO3. To help students to gain insight into the contemporary issues in management.
Development		CO4. To help students understand the managerial functions of motivating, directing, coordinating and
		controlling.
	UBCOMTSVI	CO1. Able to express the place and role of cost accounting.
Cost Accounting	.2.3	CO2. Describe the fundamental concepts of cost accounting
	.2.5	CO2. Desende the fundamental concepts of cost accounting
		CO1. To gain insight into the fundamentals of marketing, marketing research, MIS, consumer behaviour,
		market segmentation and CRM
Maulastina	UBCOMTSVI .3.3	CO2. To get familiarized with the terminologies of marketing mix, product, product mix, PLC, Branding.
Marketing		Packaging, product positioning, service positioning and pricing.
		CO3. To understand concept of physical distribution, supply chain management, promotion, integrated
		marketing communication, sales management and personal selling.
		CO4. To emphasize the key marketing dimensions like marketing ethics, competitive strategies rural

		marketing, digital marketing and green marketing. CO5. To create awareness about the challenges faced by marketing managers, careers in marketing, factors responsible for success and failure of brands in India.
Financial Accounting	UBCOMTSVI .4.3	CO1. Knowledge of International Accounting Principles and impact of global issues.CO2. Ability to evaluate financial results through examination of relevant data i.e income statement and Balance sheet.
Financial Management (B.M – II)	UBCOMTSVI .5.3	 On completion of the course learners will be able to, CO1. To help students understand the various sources of finance. CO2. To enable the students to understand basic concepts, functions and objectives of financial management.
Marketing Research	UBCOMTSVI .6.4	 On completion of the course learners will be able to, CO1. Students should understand the Research Methodology process. CO2. Students should be able to identify the overall process of designing a research study from its inception to its report.
Entrepreneurship and management of micro, small scale and medium entrepreneur	UBCOMTSVI .7.7	On completion of the course learners will be able to, CO1. To equip them with a platform to develop an entrepreneurial venture. CO2. Get insight in to their creative, entrepreneurial and team skills.
SEMESTER VI		
B.M – I Management and Organiation Development	UBCOMTSV .1.3	On completion of the course learners will be able to, CO1. To equip them with a platform to develop an entrepreneurial venture. CO2. Get insight in to their creative, entrepreneurial and team skills.
Cost Accounting	UBCOMTSV .2.3	CO1. Apply cost accounting methods to identify profitable .CO2. Recognize and understand ethical issues related to the accounting profession.
Marketing	UBCOMTSV .3.3	 CO1. To introduce the concepts ofhuman resource management- its nature importance and functions CO2. To create awareness about the terminologies of human resource planning, job analysis, recruitment and selection, importance of placement and induction.

		 CO3. To know the importance of human relations, leadership, motivation and employee morale. CO4. To understand Concepts of human resource accounting, human resource audit CO5. To instil significance of group dynamics, team building, emotional quotient, mentoring, career planning, managing workforce diversity, downsizing outsourcing, safety and security management
Financial Accounting	UBCOMTSV .4.3	CO3. Ability to prepare a federal Individual tax return. CO4. Accounting graduates will be professionally competent in C A ,C .S and ICWA etc
Financial Management (B.M – II)	UBCOMTSV .5.3	On completion of the course learners will be able to,CO1. To acquaint students with basics of risks and returns, Capital Stuctures.CO2. Understand the issues involving cash management and receivables management
Marketing Research	UBCOMTSV .6.4	On completion of the course learners will be able to, CO1. The students should be able to organize and conduct research in a more appropriate manner. CO2. The students should be able to write a research proposal, research report and thesis.
Entrepreneurship and management of micro, small scale and medium entrepreneur	UBCOMTSV .7.7	On completion of the course learners will be able to, CO1. Understand the issues involved in entrepreneurial development. CO2. Demonstrate the ability to prepare a business plan for a venture.
The level of attainn	nent of B.Com.	programme is :-
PROGRAMME : N	M.Com	
SEMESTER I	1	
Strategic Management		 CO1. To enable the learners to understand new forms of strategic management concepts and their use in business. CO2. To provide information pertaining to bus, corporate and global reforms. CO3. To develop learning & analytical skills of the learners to enable them to solve cases and to provide strategic solutions. CO4. To acquaint the learners with recent developments and trends in the business corporate world.

Economics For Business Decisions	 CO1. This course is designed to equip students with basic tools of economic theory and its practical applications. CO2. The course aims at familiarizing the students with the understanding of the economic aspects of current affairs and there by prepares them to analyse the market behaviour with economic way of thinking. CO3. In addition to providing an insight into application of economic principles in business decisions, it also intends to widen analytical ability of the students and to provide them a foundation for further study of economics.
	CO4. In order to make the study practical oriented, the paper requires discussion of some cases involving the use of concepts of business economics.
Cost And Management Accounting	 CO1. To enable the abilities of learners to develop the concepts of cost and management accounting and its significance in the business. CO2. To enable the learners to understand, develop and apply the techniques of costing in the decision making in the business corporate. CO3. To enable the learners in understanding, developing, preparing and presenting the financial report in the business corporate.
Business Ethics	CO1. To Familiarize the learners with the concepts and relevance of Business Ethics in the modern era.
And Corporate	CO2. To enable learners to understand the scope and complexity of corporate Social responsibility in the
social	global and Indian context.
Responsibility	
SEMESTER II	
Strategic	 CO1. To enable the learners to understand new forms of strategic management concepts and their use in business. CO2. To provide information pertaining to bus, corporate and global reforms.
Management	 CO2. To provide information pertaining to bus, corporate and grobal reforms. CO3. To develop learning & analytical skills of the learners to enable them to solve cases and to provide strategic solutions. CO4. To acquaint the learners with recent developments and trends in the business corporate world.
Economics For	CO1. This course is designed to equip students with basic tools of economic theory and its practical
Business	applications.
Decisions	CO2. The course aims at familiarizing the students with the understanding of the economic aspects of

Cost And Management	 current affairs and there by prepares them to analyse the market behaviour with economic way of thinking. CO3. In addition to providing an insight into application of economic principles in business decisions, it also intends to widen analytical ability of the students and to provide them a foundation for further study of economics. CO4. In order to make the study practical oriented, the paper requires discussion of some cases involving the use of concepts of business economics. CO1. To enable the abilities of learners to develop the concepts of cost and management accounting and its significance in the business. CO2. To enable the learners to understand, develop and apply the techniques of costing in the decision making in the business corporate.
Accounting	CO3. To enable the learners in understanding, developing, preparing and presenting the financial report in the business corporate.
Business Ethics And Corporate social Responsibility :	 CO1. To Familiarize the learners with the concepts and relevance of Business Ethics in the modern era. CO2. To enable learners to understand the scope and complexity of corporate Social responsibility in the global and Indian context.
SEMESTER III	
Advanced Financial Accounting	CO1. To know and understand the provisions of different Acts applicable while preparing the Final Account of Banking Companies, Insurance Companies, Cooperative Societies etc
Advanced Cost Accounting	CO1. To study the meaning and allocation of overheads by using different methods, understand the concepts, activity based Costing System, Responsibility Accounting Transfer pricing.
Corporate Financial Accounting	CO1. Determining the different methods of valuing Goodwill & Shares, studying the Holding Companies.
Advanced Financial Management	CO1. Understand the meaning of Budget, different types of Budgets, Working Capital Management, Receivables management etc.
SEMESTER IV	•

Advanced		CO1. To know and understand the provisions of different Acts applicable while preparing the Final
Financial		Account of Banking Companies, Insurance Companies, Cooperative Societies etc
Accounting		
Advanced Cost		CO1. To study the meaning and allocation of overheads by using different methods, understand the
Accounting		concepts, activity based Costing System, Responsibility Accounting Transfer pricing.
Corporate		
Financial		CO1. Determining the different methods of valuing Goodwill & Shares, studying the Holding Compaines.
Accounting		
Advanced		CO1. Understand the meaning of Budget, different types of Budgets, Working Capital Management,
Financial		Receivables management etc.
Management		
The level of attain	ment of M.Cor	m. programme is:-
PROGRAMME :	B.Com Banki	ng & Insurance
SEMESTER I		
Foundation		CO1. To know the reasons of gender disparity language differences, religions etc.
Course –I	UBIFSI.5	CO2. Different types of disabilities, communalism, etc.
	CDI SI.S	CO3. Studying the features and basic parts of Indian Constitution.
Principles of		CO1. To study the meaning and basic functions of management
Management	UBIFSI.2	CO2. To study the Indian and foreign business leaders.
D '		CO3. Importance of management process and practices
Business		CO1. To study the theory of communication & Obstacles to communication.
Communication -	UBIFSI.4	CO2. To aware students about different forms of communication and business letters.
1		CO3. To study the language and writing skills
Business		CO1. Basic tools & scope & importance of Business Economics.
Economics	UBIFSI.6	CO2. Demand Function & Demand estimation & forecasting.
Engline and the		CO3. Supply & production decision & cost of production.
Environment and		CO1. Describe the functions of commercial bank.
Management of	UBIFSI.1	CO2. Develop an understanding of various financial services.
Financial		CO3. Explain key insurance terminology and its principles.
Services		

UBIFSI.3	CO1. Develop the ability to use accounting concepts, principles.
	CO2. To study the Manufacturing companies final account.
	CO3. To study the methods of valuation of stock.
URIESI 7	CO1. To study organising data, frequency distribution and data representation.
001101.7	CO2. To study the concept of co-variance, correlation and regression.
	CO1. To study the meaning of Globalisation, Liberalisation and Privatisation and its impact on Indian
UDIECH 5	society.
UDIF5II.5	CO2. Basic human rights at an Indian citizen.
	CO3. Meaning of stress, its causes and remedial measures to overcome the stress.
	CO1. To know the concept of OB, its features and different models of OB.
UBIFSII.6	CO2. To study the Motivation, leadership concepts and theories.
	CO3. Importance of leader in the business leadership.
	CO1. To study the presentation skills & Group Communication.
	CO2. To study the Business Correspondence.
0011011.4	CO3. To study the language and writing skills.
	COS. TO study the language and writing skins.
	CO1. To know the meaning of law, Indian constitution, Contract Act.
UBIFSII.2	CO2. To study the Negotiable Instrument Act and information Technology Act.
	CO3. To study Consumer Protection Act And RTI Act.
	CO1. To understand the meaning of bank and insurance.
URIESII 1	CO2. To study the various fund based facilities and non fund based facilities provided by bank.
ODII DII.1	CO3. To study the principles and objectives of insurance
URIESII 3	CO1. To study the various methods use in calculation of goodwill
ODII 511.5	CO2. To understand the concept of redemptions of share and redemption of debenture.
LIBIESII 7	CO1. To study ratio proportion and percentage.
ODII 511.7	CO2. To study the concept of statistical application and management
	CO1. To study the meaning and importance of Management accounting.
UDIF5111.2	CO2. To study the Vertical statement, Balance Sheet and Profit and Loss Account.
	UBIFSII.5 UBIFSII.6 UBIFSII.4

		CO3. Dividend Policies and Working Capital Management.
Mutual Fund		CO1. To know the meaning, features, definition, advantages and limitations of MFM
Management	UBIFSIII.5	CO2. To know the different parties involved in MFM.
		CO3. To study the fund selection process.
Foundation		CO1. Taking an overview of banking Company.
Course – III(An	UBIFSIII.7.1	CO2. To study the Banking & Customer –Banker Relationship.
overview of		CO3. To study the Universal Banking, Technology in Banking Sector & Microfinance.
Banking Sector)		
		CO1. To study in detail the Indian Financial System, Financial Markets in India
Financial Markets	UBIFSIII.8	CO2. To study commodity market & Derivative Markets.
		CO3. To study the Indian Money Market, Capital Market, Equity Market in details
		CO1. To acquaint the students with basic principles underlying the provisions of direct tax and to develop
		a broad understanding of the tax laws and accepted tax practices.
Direct Taxation	UBIFSIII.9	CO2. To give an understanding of the relevant provisions of Direct Tax.
		CO3. Students of the course will be able to explain different types of incomes and their taxability and
		expenses and their deductibility.
		CO1. Describe the common factors influencing dividend policy.
Financial	UBIFSIII.1	CO2. Describe applications of options in financial management.
Management I		CO3. To bring financial management decisions from the business world to the classrooms.
		CO4. Calculate capital budgeting and resource allocations.
SEMESTER IV		
Corporate And		CO1. To study the Company Law, Regulatory Framework Governing Stock Exchange.
Securities Law	UBIFSIV.6	CO2. To study the SEBI in detail.
Securities Law		CO3. To study the Depositories Act 1996.
		CO1. To study the meaning of Cost Accounting.
Cost Accounting	UBIFSIV.2	CO2. To study the classification of Cost and Cost Sheet.
		CO3. To study the Standard Costing and Marginal Costing.
Customer		CO1. To Know the CRM, Technological support in CRM.
Relationship	UBIFSIV.3	CO2. To study the implementation of CRM
Management		CO3. To study the CRM In Banking & Insurance Sector.
Business	UBIFSIV.7	CO1. To study the Macroeconomics Data & Theory.

Economics II		CO2. To study the Money, inflation and Monetary Policy CO3. To study the theory and issue of International Trade.
Foundation Course IV (An overview of Insurance Sector)	UBIFSIV.5	 CO1. To understand the concept of insurance. CO2. To understand the insurance plans available of various life insurance companies. CO3. To understand the insurance plans available of various general insurance companies.
Financial Management II	UBIFSIV.1	 CO1. Identify the major sources of short-term financing available to the firm. CO2. Apply risk and return concept. CO1. To understand the concept of leverage and its benefits. CO2. To understand the concept of working capital management and its benefits
SEMESTER V		
Financial Reporting And Analysis	UBIFSV.1	CO1. To know and study the final accounts of Banking, Insurance, Limited Companies.CO2. To study the Cash Flow statements.CO3. Taking an overview of IFRS, Ethics in maintaining the books of accounts etc.
Business Ethics And Corporate Governance	UBIFSV.4	 CO1. Understanding the concept of Ethics, Business Ethics, its features, advantages, limitations etc. CO2. Studying the concept of Corporate Governance, different types of committees, in regards to Corporate Governance. CO3. Studying the meaning of Corruption and Frauds, different types of frauds in the Banking and Insurance sector,
Auditng -I	UBIFSV.2	CO1. To study the various approaches to audits, inspections & review.CO2. To study the similarities and differences between audit and investigation.CO3. To study the skills required to manage the audit function & challenges to managing audits.
Strategic Manangement	UBIFSV.3	 CO1. Understanding the concept of Ethics, Business Ethics, its features, advantages, limitations etc. CO2. Studying the concept of Corporate Governance, different types of committees, in regards to Corporate Governance. CO3. Studying the meaning of Corruption and Frauds, different types of frauds in the Banking and Insurance sector,
International Banking & Finance	UBIFSV.5	CO1. Identify the reasons for international tradeCO2. Describe the importance of balance of trade and balance of payment.CO3. Evaluate cross border investment opportunities.
Research	UBIFSV.6	CO1. To understand some basic concepts of research and its methodologies.

Methodology		CO2. Identify appropriate research topics.
		CO3. To understand how to write a report
SEMESTER VI		
Security Analysis And Portpolio Management	UBIFSVI.1	 CO1. Study the meaning and definition of Security analysis, different type of avenues available for investment. CO2. To study the NPV, Equity and Bond valuation.
Wanagement		CO3. To study the meaning and types of Ratio Analysis.
International Business	UBIFSVI.4	CO1. To know the meaning and definition of Domestic and International Business, difference in between these two business.CO2. Different environment governing International Business, International Marketing.
		CO3. International Business entry strategies and outcomes.
Auditing-II	UBIFSVI.2	 CO1. To aware the learners about how to conduct the Audit of limited Companies. CO2. To aware the learners about new areas of auditing like Cost Audit, Human Resource Audit, Forecast Audit . CO3. To aware the learners about professional Ethics & Misconduct in audit
Human Resource Management	UBIFSVI.3	 CO1. Contribute to the development, implementation & evaluation of employee recruitment, selection& retention plans & processes. CO2. Administer & contribute to the design & evaluation of the performance management programme CO3. Develop, implement & evaluate employee orientation, training & development programmes.
Central Banking	UBIFSVI.5	CO1. To understand the Functions of central banking CO2. To understand the role of RBI in Indian economy
Project Work in Banking & Insurance	UBIFSVI.6	 CO1. Student should be able to identify the Research design and overall Research methodology process. CO2. Students should be find out the solution of research problems with the help of Research Methodology.
The level of attain	ment of B.Com	. (BI) programme:- 89.65%
PROGRAMME :	B.Com SMAR	Τ
SEMESTER I		
Introduction To Business	USMARTFS I-1	 CO1 Analyze the local business environment. CO2 Formulate a marketing plan including marketing objectives, marketing mix, strategies, budgetary considerations and evaluation criteria.

		CO3	Write a business plan for an entrepreneurial start-up venture
		CO4	understand the concept of leadership & Explain organization structure
		CO1	Demonstrate a clear understanding of major marketing concepts in writing and orally using proper business communications techniques.
Communication	USMARTFS	CO2	The ability to communicate ideas clearly and concisely in oral and written structures, and in formal and informal settings
Skills	I-2	CO3	Apply effective written and oral communication skills to business situations.
			Communicate marketing information persuasively and accurately in oral, written and graphic
			formats.And Use oral communication skills
		CO1	Evaluate an e-Business opportunity.
Introduction To	USMARTFS	CO2	Produce high quality documents utilizing Word, Excel, Access or PowerPoint
Computer-I	I-3	CO3	Summarize key historical media, technology, and marketing milestones
-		CO4	Develop, monitor, and assess digital networked communication/marketing campaigns
		CO1	Describe mathematic relation & function
		CO2	Solve business arithmetic operations with fractions to do business problems, and be able to select
Business	USMARTFS I-4		which math method needs to be used to do problems.
Mathematics		CO3	Use percentages, ratios, and proportions for business applications such as discounts, markups, and
Wathematics			markdowns, and be able to differentiate which math methods should be used for different problems.
		CO4	Use business statistics for central measurements, frequency distributions, graphs, and measure of
			dispersion and be able to select which math method should be used for different problems.
	USMARTFS I-5	CO1	Assess and apply the 4 P's (Product, Place, Promotion, Price) in the B2B environment for products
Supply Chain &			or services being marketed to organizations.
Introduction To		CO2	Explain the techniques to conduct market analysis practices including market segmentation and
Marketing			targeting.
		CO3	Identify and integrate market mix elements into a comprehensive plan.
		C01	overview fmcg industry
FMCG &	USMARTFS	CO2	to introduce the business
RETAIL-I	I-6	CO3	to introduce the manufacturing
		CO4	to get knowledge of fmcg operational strategy
SEMESTER II			
Introduction To	UA&FFII-1	CO1	Employ digital tools to analyze the effectiveness of a marketing campaign.
Computer-II	UACITI-1	CO2	To give knowledge of network basic & infrastructure

		CO3	Describe the process to formulate and manage the B2B marketing strategy including all key
			components.
		CO4	Predict mega trends associated with the digital networked environment.
		CO1	describe structure of indian economy
Indian Economy	UA&FFSII-2	CO2	explain market structure
Indian Economy	υΑαγγ511-2	CO3	explain introduction to financial system
		CO4	describe purchasing power
		CO1	explain accounting rules
Fundamentals Of	UA&FFSII-3	CO2	introduction to cost accounting
Accounting	UA&FFSII-3	CO3	describe consignment
		CO4	explain EMI
Customer		CO1	understand customer relation
Releation	UA&FFSII-4	CO2	define CRM
Marketing		CO3	explore CRM
		CO1	use critical thinking skills in business situations.
Business Ethics	UA&FFSII-5	CO2	apply an ethical understanding and perspective to BUSINESS situations.
		CO3	apply the principles of business ethics and corporate SOCIAL responsibility.
		CO1	to help in outlet management
FMCG-II	UA&FFSII-6	CO2	to help in introduction of fmcg industry
FMCG-II	UA&FF5II-0	CO3	to get familiarize with sales management
		CO4	explain direct store delivery
SEMESTER III			
		CO1	to create awareness about the applicability of the concept, techniques & processes of marketing in
Rural Marketing,			rural context
Retail		CO2	to familiarize with the special problem to sales in RURAL marketing
Management&	UU&FSSII-1	CO3	to help understand the working of marketing institution
Modern Trade		CO4	to familiarize with retail management
		CO5	explain 4p's in rural marketing
Distribution &		CO1	explain the importance of distribution channel supply CHAIN management
Supply Chain		CO2	identify how distribution channel add value to businesses
Management	UU&FSSII-2	CO3	explain indirect taxes
		CO4	describe inventory control

Human Skills	UU&FSSII-3	 CO1 to understand basic human behavior pattern as they ARE THE most important resource CO2 to help in dealing & creating greater awareness of HUMAN behavior
	00&15511-5	CO3 to help manage human resource effectively
		CO1 analyze any legal obligations, principles, and rules associated with the organization
		CO2 introduction of negotiable instrument
Business Law	UU&FSSII-4	CO3 explain law of contract
		CO4 describe sales of goods act
		CO5 familiarize with consumer protection act
General		CO1 describe Indian society.
Awareness &		CO1 describe Indian society.CO2 describe Indian political system
Major Issues In	UU&FSSII-5	CO3 explain science & technology
India		CO4 explain ecology
		CO1 to enable the student in data analysis
Fmcg & Retail-III	UU&FSSII-6	CO2 explain route planning
		CO3 to understand asset management
-		CO4 to introduce the basic of business
SEMESTER IV		
		At the end of this course students should be able to:
Marketing		CO1 describe marketing research, what kinds of information it can provide, and how it is used by
U		marketing.
Research, Busine		CO2 identify and explain alternative research methods and their relative strengths and weaknesses.
ss Plan& Market	UU&SSSII-1	CO3 identify and describe examine major types of measurement techniques and data collection methods.
Analysis		CO4 analyze data obtained through marketing research using the software.
		CO5 write a marketing research report and make an oral presentation of the research results.
		CO6 make sound tactical and strategic business decisions based on the proper interpretation of marketing
		research results.
		CO1 understand the core features of the operations and production management function at the
Operational		operational and strategic levels, specifically the relationships between people
Management	UU&SSSII-2	CO2 define 'operations' and 'operations management'
		CO3 identify operational and administrative process
		CO4 identify and evaluate the processes, tools and principles of operations management to better

			understand the logistics and supply chain operations.
		CO5	explain and evaluate the quality processes in manufacturing and service sector to improve the
		COJ	
		COC	operational performance.
		CO6	apply contemporary techniques to layout design
		CO7	describe manufacturing planning and control strategies
		CO1	explain financial management
Financial		CO2	explain capital budgeting
Management/Bus	UU&SSSII-3	CO3	introduction to cash management
iness Finance	00&55511-5	CO4	introduction to account receivable management
		CO3	to help understanding new channel development
		CO4	familiarize task based personal evaluation & action plan
Selling &		CO1	to enable the student for critical sales competencies that drive buying decision
0	UU&SSSII-4	CO2	to introduce basic principles & practical steps in negotiating process
Negociable Skills		CO3	utilize sales skills.
		CO1	understand what a product is, the various levels which make it up, and different types of products
Product & Brand	UU&SSSII-5	CO2	understand how products can be classified, and the nature of the product line and product mix.
		CO3	explain the benefit of brand management
Management		CO4	identify the different types of brand
		CO5	explain the strategic value of brand equity
Fmcg & Retail-		CO1	to enable the student in product positioning
IV	UU&SSSII-6	CO2	to introduce the basic of business

SCIENCE

PROGRAMME : B	.Sc. Botany	
SEMESTER I		
Plant diversity I	USBO101	CO 1On completion of the course, students are able to Understand the diversity among Algae, Fungi and Bryophytes
Form and function I	USBO1O2	CO 1Students will understand the nature of cell and cell organelle, ecological aspects and Mendelian and Non Mendelian Genetics
SEMESTER II		
Plant diversity I	USBO2O1	CO 1Students are able to Understand the morphological diversity among Pteridophytes, Gymnosperms and Angiosperms
Form and function I	USBO2O2	CO 1 Learners get basic ideas about plant anatomy, process of Photosynthesis. Students will learn concept of primary and secondary metabolites and earn knowledge about medicinal plants.
SEMESTER III		
Plant diversity II	USBO3O1	CO 1 To studying in depth about fungi algal. Bryophyta and Angiosperms.
Form and function II	USBO3O2	CO 1 Students know basics in microscopy and separation techniques. Cell biology gives knowledge about cell organelles, importance their function.
Current trends in	USBO3O3	CO 1 Forestry and Economic botany enable students about utilization of plants in life. Students are aware
plant sciences I		about current trends in Pharmacognosy and molecular biology.
SEMESTER IV		

Plant diversity II	USBO4O1	CO 1 To give knowledge about fungi, plant diseases, Pteridophytes and gymnosperms.	
Form and function	USBO4O2	CO 1 Students are able to learn about Anotomy, physicleary of plants and concets of ecology and	
II	0300402	CO 1 Students are able to learn about Anatomy, physiology of plants and aspects of ecology and environment.	
Current trends in plant sciences I	USBO4O3	CO 1 Students will learn about garden types, plant tissue culture, rDNA technology and Biostatistics	
SEMESTER - V			
Plant diversity III	USBO501	CO 1 Understand the concept, principle of sterilization, culture of bacteria and fungi, plant pathology, morphology and structure of algae.	
Plant diversity IV	USBO5O2	CO 1 This paper gives brief idea about fossil plants, anatomy, palynology and flowering plants.	
Form and function III	USBO5O3	CO 1 On completion of the course, students are able to understand the process of translation in eukaryotes, membrane transport in plants, plant succession and production of secondary metabolite via plant tissue culture	
Current trends in plant sciences II	USBO5O4	CO 1 On completion of the course, students are able to understand the traditional plants used by tribes as medicines. Phamacognosy and medicinal botany provide knowledge of monograph of drugs with reference to their biological sources, distribution and characters	
Horticulture And Gardening –I	USACHO5 01	CO 1 On completion of the course, students are able to improve their skill in horticulture and garden practices	
SEMESTER - VI		1	
Plant diversity III	USBO6O1	CO 1 To studying in depth knowledge of general characters, morphology, life cycles and economic importance of Bryophyte, Pteridophytes and Gymnosperms.	
Plant diversity IV	USBO6O2	CO 1 Students will learn angiospermic families, ecological anatomy, embryology and biostatistics.	
Form and function III	USBO6O3	CO 1 On completion of the course, students are able to understand structure and properties of biomolecules, physiology of nitrogen metabolism, genetic disorders.	
Current trends in plant sciences II	USBO6O4	CO 1 Understand fundamentals of plant biotechnology. Gain the knowledge about economic botany and phytogeography.	

Horticulture And Gardening –Ii	USACHO5 02	CO 1 On the completion of this course students understand the principles of gardening, floriculture and commercial production of fruits, vegetables, medicinal and aromatic plants
The level of attainm	ent of B.Sc. B	otany programme:- 88.23 %
PROGRAMME : M	I.Sc. Botany	
SEMESTER - I		
Plant Diversity	PSBO101	CO1. On completion of the course, students are able to Understand the diversity among Algae, Fungi and
:CryptogamsI (Bryophytes
Algae and Fungi)		
Plant Diversity –	PSBO1O2	CO1. Students are able to Understand the diversity among gymnosperms and angiosperms
Spermatophyta I		
(Gymnosperms and		
Angiosperms)		
Plant Physiology	PSBO103	CO1. This paper enrich the knowledge of students about various physiological aspects.
Cytogenetics,	PSBO104	CO1. On completion of the course, students are able to Understand the techniques of Cytogenetics,
Molecular Biology		Molecular Biology and Biotechnology
and Biotechnology		
SEMESTER - II		
Plant Diversity :	PSBO2O1	
Cryptogams II		CO 1Students get in brief knowledge of Bryophyta and Pteridophyta
(Bryophyta and		COnstituents get in oner knowledge of Dryophyta and Ttendophyta
Pteridophyta)		
Plant Diversity:	PSBO2O2	
Spermatophyta II		
(Anatomy,		CO 1This paper provide in depth idea about anatomy, developmental botany and palynology.
Developmental		co i rins paper provide in deput idea about anatomy, developmentar botany and paryhology.
Botany and		
Palynology)		
Plant Physiology	PSBO2O3	CO 1This paper deals with the study of stress physiology and ecophysiological aspects in the environment.
and Environmental		
Botany		

Medicinal Botany and Dietetics	PSBO204	CO 1 Students earn knowledge about medicinal plants and dietetics
SEMESTER - II	T	
Techniques and Instrumentation	PSBO301	CO 1 This paper gives information on principle, working and applications of spectrophotometer (UV- VISIBLE), pH meter and separation techniques.
Molecular Biology	PSBO302	CO 1 This provide in detail information on DNA replication, translation and RNA processing
Angiosperms I	PSBO303	CO 1 Students learn Plant Identification Strategies. Students know Progress & Advancement in Angiosperm Taxonomy in India.
Angiosperms II	PSBO304	CO 1 This paper provides in brief the Methods in Evaluating Crude Drugs and approaches to the taxonomy, anatomy, embryology and palynology.
SEMESTER - IV	/	
Techniques and Instrumentation	PSBO401	CO1. On completion of the course, students are able to Understand the tracer techniques microscopy, centrifugation and chromatography
Molecular Biology	PSBO402	CO1. This paper provide in depth knowledge about gene regulation in prokaryotes and eukaryotes.
Angiosperms I	PSBO403	CO1. This paper provides in brief the Methods in Evaluating Crude Drugs and approaches to the taxonomy, anatomy, embryology and palynology.
Angiosperms II	PSBO404	CO1. This paper provides in brief the Methods in Evaluating Crude Drugs and approaches to the taxonomy, anatomy, embryology and palynology.
The level of attainm	ent of B.Sc. B	Botany programme :- 100%
PROGRAMME :B.	Sc. Chemist	ry
SEMESTER I		
Physical/Organic /Inorganic Chemistry: PAPER –I	USCH101	The students will gain knowledge about- CO 1 Thermodynamics with respect to basic terms, laws and thermochemistry. CO 2 Expressing concentrations of solutions with respect to volume base and weight base. CO 3. Describe the periodic table and basic concepts of atomic structure CO 4. Basic concepts in bonding, structures and reaction mechanism.

Physical/Organic /Inorganic Chemistry: PAPER	USCH102	CO 1.Kinetics of reaction and determination of order of reaction by different methods. CO 2. Characteristic properties of liquid states CO 3. Students will get sound knowledge of main group element
-II		CO 4. Basics in stereochemistry
SEMESTER II		
Physical/Organic /Inorganic Chemistry : PAPER –I	USCH201	The students will gain knowledge about- CO 1. Characteristics properties of Gaseous state CO 2. Basics concept of Chemical Equilibria CO 3. Basic concepts of Acid-Base Theory and concept of qualitative analysis CO 4. Basic concepts in chemistry of hydrocarbons
Physical/Organic /Inorganic Chemistry : PAPER –II	USCH202	CO 1 Basic concepts in Ionic Equilibria, Molecular Spectroscopy CO 2 Concept of Solid State Chemistry CO 3. Basic concepts in Chemical Bonding and Reactivity CO 4. Concept of Solid tate Chemistry CO 5. Concept of stereochemistry and Aromatic Hydrocarbons
SEMESTER III		e e el concept of storeochemistry une riformate rifarocarbonis
Physical/Organic /Inorganic Chemistry : PAPER –I	USCH 301	On completion of the course learners will be able to understand, CO 1. Basic Concept of Thermodynamics CO 2. The bonding and structure of Inorganic Molecules. CO 3.Nomenclature, Synthesis and reactions of Halogenated Organic Compound
Physical/Organic /Inorganic Chemistry : PAPER –II	USCH 302	The course enables the learners will be able to understand, CO 1. The Chemistry of P-block elements and study of B,Si,Ge and N containing compounds CO 2. Kinetics of reactions. CO 3.Nomenclature, Synthesis and reactions of Carbonyl Compound
Analytical Chemistry PAPER –III	USCH 303	Learners are able to get vital knowledge about , CO 1. The basics of Analytical Chemistry, Sampling CO 2. Classical and Instrumental Methods
SEMESTER IV		

PAPER –I Physical/Organic	USCH 401	The course enables the students to understand, CO 1 the transition element series and concept in bonding Co-ordination Chemistry
/Inorganic Chemistry	USCH 401	CO 2 Different types of electrodes, Ph Determination and numerical methods regarding Equilibrium Constant, Chemical Cells
		CO 3 Chemistry of Carboxylic Acid, Sulphonoic Acids and their derivatives
PAPER –II: Physical/Organic	USCH 402	Learners are able to get vital knowledge about, CO 1 Identify and describe the types of Crystals w.r.t Laws of Crystallography and XRD methodsDiff.
/Inorganic	05011402	Types of Catalytic methods with its mechanism and Kinetics CO 2 Chemical Behaviours and Role of ions and their movements in aqueous environment
Chemistry		CO 3 The Course study will get the sound knowledge of Nitrogen containing compounds and Heterocyclic
		compounds
PAPER –III:	USCH 403	Learners are expert in
Analytical		CO 1 Various Separation techniques, solvent extraction, Instrumental methods
Chemistry		CO 2 Different measures of Dispersion Methods
SEMESTER - V		
PAPER –I		On completion of the course learners will be able to,
Physical Chemistry		CO 1. Undestand different type of spectroscopic methods and their use.
	USCH501	CO 2. Moiar mass determination using colligative properties,
	USCH501	CO 3. Theories of reaction rates and their classification,
		CO 4. Radioactvity, Nuclear reactions, applications of radioisotopes and nuclear
		reactors,
		CO 5. Stability and uses of colloidal and properties and uses of surfactants
PAPER –II		On completion of the course learners will be able to,
Inorganic		CO 1. Basic concept of molecular symmetry with respect to symmetry elements symmetry operations and
Chemistry	USCH502	point groups.
	05011302	CO 2. Bonding in polyatomic species.
		CO 3. Structure of solids w.r.t. packing lattice in space.
		CO 4. Chemistry of inner transition elements and non aqueous solvents.
PAPER –III		CO 5. comparative chemistry of group 16 and 17.
Organic Chemistry	USCH503	On completion of the course learners will be able to, CO 1.Undestand acyl nucleophilic substitution mechanism and stereochemistry of compounds.
Organic Chemistry		CO 1. Ondestand acymucleophine substitution mechanism and stereochemistry of compounds.

		 CO 2.Understand advantages and disadvantages of agrochemicals, biopestisides like neem oil and karanja oil. CO 3.Understand importance of green chemistry.
PAPER –IV Analytical Chemistry	USCH504	 On completion of the course learners will be able to, CO 1.Undestand the concept of quality, quality control and quality assurance and the techniques of sampling for solids liquids and gases, CO 2.Understand the method of analysis by instrumental method like GC, HPLC, Flame photometry, AAS, UV Visible Spectrophotometer. CO 3.Understandelectroanalytical methods like voltammetry and ampereometry.
Applied Components: Drugs & Dyes: PAPER –V	USACDD501	On completion of the course learners will be able to, CO1. Study different types of dyes and pigments. CO2. get knowledge about the drugs
SEMESTER - VI		
PAPER –I Physical Chemistry	USCH601	 On completion of the course learners will be able to, CO 1. Activity, classifications of cell, EMF measurements and their applications, Concept of overvoltage, electroplating. CO 2. Classification of polymers, LEP's, antioxidants and stabilizers, CO 3. Classical and Quantum mechanics, Operator concepts and their terms, CO 4. Renewable energy sources, Solar energy, Hydrogen, NMR and ESR spectroscopy.
PAPER –II Inorganic Chemistry	USCH602	On completion of the course learners will be able to, CO 1. Boding in complexes on basis of CFT CO 2.stability of complexes and factors affecting thermodynamic stability CO 3. types of substitution reaction and mechanism CO 4. Concept of electronic spectra CO 5. Organometallic compounds of main group elements CO 6. Phenomenon of catalysis CO 7. Extraction of metals by using different metallegic techniques CO 8. Chemistry of group 18 elements of bioinorganic chemistry.
PAPER –III Organic Chemistry	USCH603	On completion of the course learners will be able to, CO 1. Understand stereoselectivity and stereospecificity of addition and substitution reactions, CO 2. Determine structure of organic compounds by spectroscopic techniques.

PAPER –IV		On completion of the course learners will be able to,
Analytical	USCH604	CO 1.Understand the technique of food processing and preservation, analysis food products and detect
Chemistry	USCH004	adulterant present in it,
Chieffinistay		CO 2.Understand the principles, instrumentation and applications of thermogravimetric methods like TGA,
		DTA, DSC etc.
Applied		On completion of the course learners will be able to,
Components: Drugs	USACDD6	CO 1. Study different types of dyes and pigments.
& Dyes:	01	CO 2. get knowledge about the drugs
PAPER –V		
The level of attainm	ent of B.Sc. C	Chemistry programme:- 98.70%
PROGRAMME : N	A.Sc. Chemist	ry
SEMESTER - I		
		On completion of the course learners will be able to,
Physical		CO 1.Undestand the concept of Thermodynamics –I, Phase transition, State function, thermodynamic
Chemistry		relation, application of ideal gaseous
Paper –I	PSCHA101	CO 2. Understand classical Mechanics, Partials wave, Operators, and application of quantum Mechanics'.
- up of -		CO 3. Understand of Chemical dynamics, Composite reaction, polymerisation of reaction, Reaction in gas.
		CO 4. Understand the concept basic electrochemistry, Debye-huckel theory, electrolytic conductance, and
		Bio-electrochemistry. On completion of the course learners will be able to,
		CO 1. Understand the concept of Hybridization, concept of resonance, Critical analysis of VBT, Weak
		forces of attraction.
Inorganic		CO 2. Understand of Symmetry criterion of optical activity, Concept of Groups, Application of Group
Chemistry		Theory.
Paper –Ii	PSCHA102	CO 3. Understand the concept Electronic structure of solid and band theory, Methods of preparation of
		inorganic solids, and preparative methods of Nonmaterial's and its application.
		CO 4. Understand of characterisation of Coordination compounds, IR, NMR, and ESR spectroscopic
		methods.
Organic	PSCHA103	On completion of the course learners will be able to understand the concept of Mechanisms and application
Chemistry:		of,
Paper –Iii		CO1. Thermodynamics, Kinetics and mechanism Organic Chemistry

		CO2. Nucleophilic substitution Reactions and Aromaticity
		CO3. Sterochemistry
		CO4. Oxidation and Reduction .
Analytical		On completion of the course learners will be able to understand the concept of,
Chemistry	PSCHAEC	CO1. Analytical perspective, An overview of analytical methods.
Paper –Iv	104	CO2. Concentration of solution based on volume and mass, dilution in ppm ppb,ans,stoichiometry of
raper –iv		chemical reaction.
		CO 3. Optical Methods & 4 Thermal method,
SEMESTER - II		CO 5. Optical Methods & 4 Thermal method,
SEMIESTER - II		
		On completion of the course learners will be able to,
		CO1. Understand the basic concept of chemical thermodynamic, Real Solution, Thermodynamic of
Physical		surface, Bioenergetisc.
Chemistry	PSCHA201	CO 2. Understand the concept of Quantum Chemistry, Rigid Roter, and Application of Schrodinger
Paper –I	PSCHA201	equation to two electron systems.
		CO 3. Understand the concept Elementary Reaction, Kinetic of reaction, Inhibition enzyme action. And
		Rate laws for reaction in solid.
		CO4. Understand the concept of Structures of Defects in Solid, Types of Defects and stoichiometry, two
		components and three components system.
		On completion of the course learners will be able to,
		CO1. Understand the concept of Rate of reaction ,Ligand substitution reaction ,Readox reaction
Inorganic		,Stereochemistry of substitution reaction of octahedral complexes.
Chemistry: Paper –II	PSCHA20	CO 2. Understand of Eighteen and sixteen electron rule, Preparation and properties of Alkyl,carbense,and sandwich compound,
-	2	CO 3. Understand the concept of Heavy Metals, Toxicity of metallic species, and Interaction of radiation
		in context with environment
		CO 4. Understand of Biological oxygen carriers, haemoglobin, Activation of oxygen in biological system
		with example, Metal ion transport and storage.
Organic	DOCLLA	On completion of the course learners will be able to understand the concept of Mechanisms and application
Chemistry:	PSCHA	of,
•	203	CO 1. Alkylation Nucleophilic Intermediate
Paper –III		CO 2. Molecular Rearrangements
		CO 3. Introduction to MOT for organic chemistry and Application of UV and IR spectroscopy.

		CO 4 Magnetia Decompose Spectroscopy (DMD ¹³ CNMD spectrometry) and Mass spectrometry
		CO 4. Magnetic Resonance Spectroscopy,(PMR, ¹³ CNMR spectrometry,) and Mass spectrometry.
Analytical Chemistry: Paper –IV	PSCHAEC 204	 On completion of the course learners will be able to understand the concept of, CO 1. Separation Techniques CO 2. Instrumentation and application of X-ray spectroscopy, Mass spectrometry, Radioanalytical Methods , SEM, STM, TEM, ESCA, AAS. CO 3. The Ion selective potentiometry, Polarography, Electrogravimetry, Coulometry .
SEMESTER - III		
QualityInAnalyticalChemistryPAPER –I	PSCHA301	CO1. After completion of this topic student comes to understand sampling methods of various analytical samples, their measurements also the pre treatment method. They are also getting knowledge about separation of various chemical species using different chromatographic techniques.
Advanced Instrumental Techniques PAPER -II	PSCHA302	CO1. In this paper students study about various instruments used in chemical as well as pharmaceutical industries which include Mass Spectroscopy, X-Ray emission Spectroscopy, Polarographic techniques, Mossbaur's Specroscopy, Chemiluminescence Techniques & Photoacaustic Spectroscopy.
Bio Analytical Chemistry & Food Analysis PAPER – III	PSCHA303	CO1. In this paper students studying compositions & analysis of various body fluids also the various Physiological & Nutritional significance of vitamins & minerals.they are studying food constituents and their analysis as well.
Environmental & Certain Industrially Important Materials study PAPER –IV	PSCHAEC 304	CO1. In this particular paper students study in detail the acts and laws regarding the environmental issues. They are studying the sources, effects and preventive measures of different kind of pollution and also studying the various petrochemical products in detail.
SEMESTER - IV		
Quality In Analytical Chemistry PAPER –I	PSCHA401	CO1. Basically in this topic students are studying different separation techniques and analysis of herbal products on the basis of separation. Students are also studying Green Chemistry.

Advanced Instrumental Techniques PAPER –II	PSCHA 402	CO1. After completion of this topic students will get brief information about instruments like NMR, RAMAN Spectroscopy & Hyphenated techniques like LC-MS, HPLC-MS, ICP-MS, GC-IR etc.
Selected Topic In Analytical Chemistry PAPER –III	PSCHA403	CO1. Students getting brief knowledge about plastic and polymer and also metallurgical process.
Pharmaceuticl & Organic Analysis PAPER –IV	PSCHAECI I-304	CO1. In this paper students are studying in deep about Pharmaceuticals. Students also get knowledge about vast variety of drugs & assays. Students learn to co-relate Analytical Chemistry with the Forensic science by analysing different parameters. They also study chemistry in Cosmetic Industry.
The level of attainr	nent of M.Sc.	Chemistry programme:- 100%
PROGRAMME :]	B.Sc. Physics	
SEMESTER I		
Classical Physics PAPER –I :	USPH-101	 CO1. Understand Newton's laws and apply them in calculations of the motion of simple systems. CO2. Use the free body diagrams to analyse the forces on the object. CO3. Understand the concepts of friction and the concepts of elasticity, fluid mechanics and be able to perform calculations using them. CO4. Understand the concepts of lens system and interference. CO5. Apply the laws of thermodynamics to formulate the relations necessary to analyze a thermodynamic process.
Modern Physics: PAPER –II	USPH-102	CO1. Understand nuclear properties and nuclear behaviour. CO2. Understand the type isotopes and their applications.
SEMESTER II		
Mathematical Physics PAPER –I	USPH-201	CO1.Understand the basic mathematical concepts and applications of them in physical situations. CO2. Demonstrate quantitative problem solving skills in all the topics covered.
Electricity and Electronics	USPH-202	CO1. Understand the basic electronics concepts and applications of electronics in real world. CO2. Exploring different branches of electronics such as Power, analog and digital electronics

PAPER –II		CO3. Understanding of AC and DC Voltages and current
SEMESTER III		
Mechanics and thermodynamics PAPER –I	USPH-301	CO1. Understand the concepts of mechanics & properties of matter & to apply them to problems. CO2. Comprehend the basic concepts of thermodynamics & its applications in physical situation.
Vector calculus, Analog Electronics PAPER –II	USPH-302	CO1. Understand the basic concepts of mathematical physics and their applications in physical situations.CO2. Understand the basic laws of electrodynamics and be able to perform calculations using them.CO3. Understand the basics of transistor biasing, operational amplifiers, their applicationsCO4. Understand the basic concepts of oscillators and be able to perform calculations using them.
Applied Physics –I : PAPER –III	USPH-303	 CO1. Students will be exposed to contextual real life situations. CO2. Students will appreciate the role of Physics in 'interdisciplinary areas related to materials, Bio Physics, Acoustics etc. CO3. The learner will understand the scope of the subject in Industry & Research.
SEMESTER IV		
Optics and Digital Electronics: PAPER –I	USPH-401	 CO1 Understand the diffraction and polarization processes and applications of them in physical situations. CO2. Understand the resolving power of different optical instruments. CO3. Understand the working of digital circuits
Quantum Mechanics: PAPER –II	USPH-402	CO1. Understand the postulates of quantum mechanics and to understand its importance in explaining significant phenomena in Physics.
Applied Physics-II: PAPER –III	USPH-403	CO1. Understand the concepts of mechanics & properties of matter & to apply them to problems. CO2. Learn about situations in low temperature.
SEMESTER - V		
Mathematical Methods in Physics and Thermal and Statistical Physics: PAPER –I	USPH-501	CO1. From this course, the students are expected to learn some mathematical techniques required to understand the physical phenomena at the undergraduate level and get exposure to important ideas of statistical mechanics.
Solid State Physics: PAPER –II	USPH-502	 CO1. Understand the basics of crystallography, Electrical properties of metals, Band Theory of solids, demarcation among the types of materials, Semiconductor Physics and Superconductivity. CO2. Understand the basic concepts of Fermi probability distribution function,

		CO3. Density of states, conduction in semiconductors and BCS theory of superconductivity.
Atomic and		CO1. The application of quantum mechanics in atomic physics
Molecular Physics: PAPER –III	USPH-503	CO2. The importance of electron spin, symmetric and antisymmetric wave functions and vector atom model
		CO3. Effect of magnetic field on atoms and its application
Electrodynamics :		CO1. Understand the laws of electrodynamics and be able to perform calculations using them.
PAPER –IV	USPH-504	CO2. Understand Maxwell's electrodynamics and its relation to relativity
		CO3. Understand how optical laws can be derived from electromagnetic principles.
Analog Circuits,		CO1. Understand the difference between a transducer and a sensor.
Instruments And		CO2. Understand the construction, working and uses of different types of transducers.
Consumer	USACEI-	CO3. Understand the concept of signal conditioning, devices used and their operations.
Appliances	501	CO4. Get acquainted with the measuring instruments used in laboratory.
		CO5. Get the insight of the modern medical instruments in principle, which are used in day to day life.
		CO6. Analyze/design and implement combinational logic circuits.
		CO7. Develop assembly language programing skills and real time applications of microprocessor.
SEMESTER - VI		
Classical		CO1. This course will introduce the students to different aspects of classical mechanics.
Mechanics:		CO2. They would understand the kinds of motions that can occur under a central potential and their
PAPER –I	USPH601	applications to planetary orbits. The students should also appreciate the effect of moving coordinate
		system, rectilinear as well as rotating.
		CO3. The students are expected to learn the concepts needed for the important formalism of Lagrange's
		equations and derive the equations using D'Alembert's principle etc
Electronics:	USPH602	CO1. Understand the basics of semiconductor devices and their applications.
PAPER –II		CO2. Understand the basic concepts of operational amplifier: its prototype and applications as
		instrumentation amplifier, active filters, comparators and waveform generation.
		CO3. Understand the basic concepts of timing pulse generation and regulated power supplies

Nuclear Physics:		
PAPER –III		CO1. fundamental principles and concepts governing classical nuclear and particle physics
	USPH603	CO2. knowledge of their applications interactions of ionizing radiation with matter
		CO3. Knowledge on elementary particles will help students to understand the fundamental constituents of
		matter, antimatter and other research oriented topics.
Special Theory of		CO1. Understand the significance of Michelson Morley experiment and failure of the existing theories to
Relativity: PAPER		explain the null result
-IV	USPH604	CO2. Understand the importance of postulates of special relativity, Lorentz transformation equations,
		Absolutism and relativity,
		CO3. Understand the transformation equations for: Space and time, velocity, frequency, mass, momentum,
		force, Energy, Charge and current density, electric and magnetic fields.
Digital Electronics,		CO1. Illustrate how to interface the I/O peripheral (PPI) with 8085 microprocessor
Microprocessor,	USACEI601	CO2. Understand architecture, silent features, instruction set, programming and interfacing of 8051
Microcontroller		microcontroller.
And OOP		CO3. Develop the programming skills in programming Language C++.
The level of attainm	ent of B.Sc. P	hysics programme:- 94.11%
PROGRAMME : B	S. Sc. Zoology	
SEMESTER - I		
Wonders Of Animal World, Biodiversity	USZO 101	CO1. The curiosity will be ignited in the minds of learners to know more about the fascinating world of animals which would enhance their interest and love for the subject of Zoology.
And Its		CO2. Learners would appreciate treasure of biodiversity its importance and would contribute their best for
Conservation		its conservation.
		CO3. Minds of learners would be impulse to think differently and would be encourage ipso facto to their
		original crude ideas from the field of biological science
Laboratory Safety	USZO 102	CO1. Learners would work safely in the laboratory and avoid and avoid occurance of accidents which will
And Units Of		boost their scholastic performance and economy in the use of materials and chemicals during
Measurement		practical session
		CO2. Learners would understand recent advance in the subject and their application for betterment of
		mankind and that the young minds would be turns to think out of the box.
		CO3. Learner will be skilled to select and operate suitable instruments for the studies of different componts
		of Zoology of this course and also of higher classes including research

SEMESTER - II		
Ecology And	USZO 201	CO1: Learners will learn about nature of human population, specific factors affecting its growth and its
Wildlife Management		impact on the population of other life forms
		CO2: Students will grasp the concept of interdependence and interaction of physical ,chemical and biological factors in the environment .
		CO3: It will leads to better understanding about implications of loss of fauna on human being erupting spur of desire for conservation of all fauna and flora
		CO4: Learner would be motivated to choose their career in the field of wildlife of conservation, Research, photography and ecotourism
Nutrition,Public Health And Hygiene	USZO 202	CO1: Healthy dietary habits would be inculcated in the lifestyle of learners preventing risk of developing health hazards in younger generations due to faulty eating habits.
		CO2: Promoting optimum conservation of water, Encouragement for maintain personal hygiene. Optimum use of electronic gadgets, avoiding addiction, thus facilitating to achieve the goals of healthy young India in true sense.
		CO3: Learner will be able to promptly recognised tress related problems at initial stage and would be able to adopt related solution which would lead to psychological stronger mind-set, promoting promoting Positive attitude.
		CO4: Acquiring knowledge about cause symptoms and precautions about infectious diseases to help
		students to prevent frequent sickness not only for them but also for their family members.
SEMESTER - III		
Fundamentals Of Genetics,	USZO 301	CO1: Understand and apply the principles of inheritance, concept of multiple allele's linkage and crossing over
Chromosomes		CO2: Learner will understand importance of nucleic acid as a genetic materials
Heredity And Nucleic		CO3: Learner would comprehend and appreciate the regulation of gene expression
Acids		CO4: Learners would understand the structure and types of chromosome, mechanism of sex determination
		CO5: Learners would be able to correlate the disorders link to a particular sex chromosomes.
Animal Physiology	USZO 302	CO1: Learners should understand the increasing complexity of nutritional, excretory and osmoregulatory physiology in evolutionary hierarchy
		CO2: learner would be able to correlate the habit and habitat with nutritional, excretory and osmoregulatory structure in different classes of organism

		CO3: Learner would understand increasing complexity of respiratory, and Circulatory physiology in evolutionary hierarchyCO4: Learners would understand the process of control and coordination by nervous and endocrine
		CO4: Learners would understand the process of control and coordination by nervous and endocrine
		regulation.
		CO5: Learners would be amazed by various locomotory structure found in the animal kingdom CO6: Learners would be acquainted with various reproductive strategies present in the animals
Applied Zoology US2	ZO303	CO1: Learners would gain insight into different types of animal's behaviours and their role in biological adaptation
		CO2: Learners would be sensitised to be feelings which are instrumental in social behaviour.
		CO3: learners should understand the general epidemiological aspect of parasite that affect humans and takes simple preventive measures for the same
		CO4: Learner would be competent the lifecycle of specific parasite the symptoms of diseases and its treatments.
		CO5: Learner would gain knowledge of animals useful to mankind and means to make the most of it
		CO6: Learner would learn the modern technique in animal husbandry and peruse entrepreneurship as a career .
SEMESTER - IV		
Origin And Evolution US2		CO1: Learner would gain insights into the origin of life
Of Life, Population		CO2:Leraner would analyse and critically view the different theory of evolution
Genetics ,Scientif Attitude,		CO3: Learner would understand the force that cause evolutionary changes in the natural population and mechanism of speciation's.
Methodology		CO4: The learner would develop quality such as critical thinking, skill of scientific communication
Scientific Writing		and analysis and to understand the ethical aspects of Research.
And Ethics		
Inscientific Research		
Cell Biology, US2	ZO 402	CO1: Learners would acquire insights into the composition of the transport system adopted by the cell
Endomembrane		and organelle for its maintaince and composition of the cell
System And		CO2: Learners would appreciate the intricacy of endomembrane system
Biomolecules	I.	CO3: Learners would understand the interlinking of endomembrane system for functioning of the cell

		CO4: Learners would realise the importance of biomolecules and their clinical significance.
Comparative	USZO 403	CO1: Learners understood and compare different types of eggs and sperms.
Embryology Aspect		CO2: Learners would be understand human reproductive physiology
Of Human		CO3: Learners would become familiar with advance in ART and related ethical issues.
Reproduction And		CO4: Learners would be sensitised about the adverse effect of pollution and measure to control it
Effects On Organism		
SEMESTER - V		
Taxonomy Of Invertebrates	USZO 501	CO1: Learners would be apprehended the basis of classification and modern classification up to class of the lower invertebrate animals
		CO2: Learners would be familiarise with classification put phylum Nematode along with their examples
		CO3: Learners would get an idea of higher groups of invertebrate animals life, their classification and their peculiar aspects.
		CO4: Learners would get an idea of general characteristics and detail l of invertebrate animal system
Haematology And	USZO 502	CO1: Learners comphrended basic haematology and identified various component of haem
Immunology		ostatistic system
		CO2: Learners become familiar with the terminology used and diagnostic test performed in a
		pathological laboratories
		CO3: Learners acquainted diagnostic approach in haematological disorders
		CO4: Learners better equipped for further pathological course or working in a diagnostic laboratory
		CO5: Learners comprehended the types of immunity and the components of the immune system .
		CO6: The learners realised the significance role of immune system in giving resistance against disease.
Histology,	USZO 503	CO1: Learners appreciated the well plan organization of tissues and cells in the organ system
Toxicology,Patholog		CO2: Learners developed broad understanding in different areas of toxicology
y And Biostatistics		CO3: Learners developed critical thinking and assist student in preparation for employment in pharmaceutical and related areas
		CO4: Learners become familiar with various medical terminology pertaining to pathological
		condition of the body cause due to disease
		CO5: Learners. able to collect, organised and analysed data using parametric and non-parametric tests and also setup hypothesis and verified the same limits of significance

Anatomy And Developmental Biology	USZO 504	 CO1: Learners understood importance of various types of epidermal and dermal derivatives along with their functions CO2: Learners understood the structure ,types and functions of human skeleton . CO3: Learners understood the long limb muscles its arrangement and their role in body movements
Applied Components	USACFBIO601	CO1: Learners understood and learn about the use of sea safety, navigational equipments and oceanographic instruments CO2: Learners understood basic physical, chemical and biological oceanography
		CO3: Learners understood boat building techniques and design of engines used in mechanized boats CO4: Learners acquainted breeding techniques and skills for culture of major carps CO5: Learners understood breeding techniques, hatchery and management of finfish and shell fishes
SEMESTER - VI		
Taxonomy Of Vertebrates	USZO 601	 CO1: Learners got the idea of origins of chordates , its taxonomy up to the class with reference to phylogeny with reference to phylogeny and their special features CO2: Learners understood the characteristic feature and examples of class reptile aves and mammals CO3: Learners got idea of vertebrate animal life after studding one representative animal Shark
Physiology And Tissue Culture	USZO 602	 CO1: Learners understood fundamental structure action and kinetics CO2: Learners appreciated the enzyme assay procedure and therapeutic applications of enzymes . CO3: Learners comphrended the adaptive response of the animals to environmental changes for their survival. CO4: Learners understood the types and secretion of endocrine glands and their functions CO5: Learners appreciated the significance of tissue culture as a tool in a specialised area of research and its application in various industries.
Genetics And Bioinformatics	USZO 603	 CO1: Learners understood an insights into the intricacies of chemicals and molecular processes that affect genetic materials. CO2: Learners appreciated the enzyme assay procedure and therapeutic applications of enzymes . CO3: Learners understood significance of molecular biology as a basis for the study of other areas of biology and biochemistry CO4: Learners understood related areas in relatively new field in genetic engineering and biotechnology.

		CO5: Learners acquainted the vast array of techniques used to manipulate genes which can be applied in numarous field like medicine research etc for human benefits.
Environmental	USZO 604	CO1: Learners understood the different factors affecting environment its impact and environment
Biology		management law
Zoopharmacognosy		CO2: Learners understood various methods for wildlife conservation
		CO3: Learners understood knowledge of overcome the issues related to wildlife conservation .
		CO4: Learners acquainted how and why different animals species are distributed around the globe
Applied Components	USACFBIO601	CO1: Learners understood deep sea and coastal fishes
		CO2: Learners understood commercial potential and know about the major landing centres of the
		fishes
		CO3: Learners understood basics of nutritional requirements at various developmental stages of fish
		and crustaceans
		CO4: Learners should oriented towards understanding causes, pathogenicity, prophylaxis and preventive measures of various fish diseases and physiological disorders
		CO5: : Learners understood fish by-products and value-added products
		CO6: : Learners understood good manufacturing practices while manufacturing the various products
The level of attainme	nt of B.Sc. Zoolog	gy programme :- 77.77%
PROGRAMME : M	. Sc. Zoology	
SEMESTER - I		
Non Chordates And	PSZO101	CO1: Learners understood systematic position and importance of taxonomic study in biology,
Chordates And Their		morphological studies of phylum protozoa up to Echinodermata
Phyllogeny		CO2: Learners understood different kinds of taxonomic keys merits and demerits of non chordates,
		CO3: Leaners understood phylogeny salient features and classification up to the classes
Biochemistry And	PSZO102	CO1: Learners understood structure and functions of biomolecules like carbohydrates, amino acids,
Metabolism		proteins, fats and nucleic acids
		CO2: Learners understood biochemical thermodynamics .
		CO3: Leaners understood metabolic pathways of biomolecules
		CO4: Leaners understood regulation of metabolism and concept of hoemeostasis

Genetics And	PSZO103	CO1: Learners understood chromosome theory of inheretance
Evolution		CO2: Learners understood Evolution of animals
		CO3: Leaners understood development of animals
		CO4: Learners understood Mendelian and non Mendelian inheritance
Microtomy And	PSZO104	CO1: Learners understood principle and application of microtomy
Spectroscopy		CO2: Learners understood Principle and application of radioisotopes
1 17		CO3: Leaners understood principle and application spectroscopy
		CO4: Leaners understood good laboratory practices
SEMESTER - II		
Non Chordates And	PSZO201	CO1: Learners understood Phylogeny of non chordates
Chordates And Their		CO2: Learners understood systematics of non chordates
Phyllogeny-II		CO3: Leaners understood phylogeny of chordates
		CO4: Leaners understood comparative vertebrates and osteology
Biochemistry And	PSZO202	CO1: Learners understood biomolecules and structures
Metabolism -II		CO2: Learners understood types of enzymes and functions
		CO3: Leaners understood metabolic pathway and metabolism
		CO4: Leaners understood inborn errors of metabolism
Genetics And	PSZO203	CO1: Learners understood chromosomal theroy
Evolution -Ii		CO2: Learners understood extension of Mendelian genetics
		CO3: Leaners understood evolutionary theory of animals
		CO4: Learners understood different types of development of animals
Cromatography And	PSZO204	CO1: Learners understood application of chromatography techniques
Electrophoresis		CO2: Learners understood application of gel chromatography
-		CO3: Leaners understood electrophoresis
		CO4: Leaners understood research methodology
SEMESTER - III		
Biotechnology-I	PSZOBT 301	CO1: Learners understood recombinant DNA technology
Diotocimorogy i	152621 501	CO2: Learners understood environment biotechnology
		CO3: Leaners understood culture and production from Recombinant microorganisms
		2007. Leaners anderstood culture and production from Recombinant interoorganisms

		CO4: Leaners understood medical biotechnology
Diotochnology II	PSZOBT 302	2 CO1. Learners understood conome management and analysis
Biotechnology –II	PSZOBI 50.	\mathcal{O}
		CO2: Learners understood manipulation of gene expression CO3: Leaners understood bioinformatics
Enternalis en I	DEZOENT	CO4: Leaners understood animal biotechnology CO1: Learners understood insect classification
Entomology-I	PSZOENT	
	303	CO2: Learners understood insect morphology
		CO3: Leaners understood insect anatomy and physiology
		CO4: Leaners understood insect development and endocrinology
Entomology-II	PSZOENT	CO1: Learners understood insect pest of crop
	304	CO2: Learners understood medical and industrial entomology
		CO3: Leaners understood insect control and toxicology
		CO4: Leaners understood insect physiology and genetics
Ocenography-I	PSZOENT	CO1: Learners understood general ocenography
	303	CO2: Learners understood physical ocenography
		CO3: Leaners understood chemical ocenography
		CO4: Leaners understood biological ocenography
Ocenography-II	PSZOENT	CO1: Learners understood planktology
	304	CO2: Learners understood fish and fishery science
		CO3: Leaners understood biotechnology and fisheries
		CO4: Leaners understood aquaculture
SEMESTER - IV	7	
Industrial And	PSZOBT	CO1: Learners understood microbial synthesis of commercial product
Environmental	401	CO2: Learners understood large scale culture and production for industrial biotechnology
Biotechnology-II		CO3: Leaners understood agricultural biotechnology
		CO4: Leaners understood environmental biotechnology
Genetic Engeering		CO1: Learners understood basic tools and cloning vector
Technique And Its		CO2: Learners understood manipulation of gene expression
Application		CO3: Leaners understood human genome project
		CO4: Leaners understood regulation and patent in biotechnology

Generalphysical	PSZO0CN	CO1: Learners understood oceanographic instruments
Chemical And	403	CO2: Learners understood waves, tides and water currents
Biological		CO3: Leaners understood impact of anthropogenic activity
Ocenography		CO4: Leaners understood resource from the sea
Planktology Fish,	PSZO0CN	CO1: Learners understood types of algae's and planktons, preservation and analysis.
Fishery Science And	404	CO2: Learners understood population fishery catches and fluctuations.
Aquaculture		CO3: Leaners understood sampling method, measurement of fish and biometric index.
General Entomology	PSZOENT	CO1: Learners understood insect morphology
	403	CO2: Learners understood structure of hormones synthesis and regulation
		CO3: Leaners understood insect anatomy and physiology
		CO4: Leaners understood insect development and endocrinology
Applied Entomology	PSZOENT	CO1: Learners understood store grain and flowering plant pest
Ecology And	404	CO2: Learners understood veterinary entomology
Genetics		CO3: Leaners understood insecticide their resistance and impact on human health and ecology
		CO4: Leaners understood genetic theory of insects
The level of attainme	ent of B.Sc. Zo	oology programme :- 100%
PROGRAMME : B .	Sc. Mathema	itics
SEMESTER - I		
Calculus - I		CO1. Learners understood basic concept of real number system.
PAPER –I	USMT101	CO2. Learners understood concept of sequences and it's properties.
		CO3. Learners understood limit and continuity of one variable
Algebra-I		CO1. Learners understood properties of l.c.m. and g.c.d Also they earns properties of Congruences.
PAPER –II	USMT102	CO2. Learners understood concept of functions and equivalence relations.
	0011102	CO3. Learners understood algebra and properties of polynomials.
SEMESTER - II		
		CO1. Learners understood basic concept of series and it's properties.
Calculus - I I	USMT201	
PAPER –I	03111201	CO2. Learners understood algebra of continuous functions and properties of continuous functions.CO3. Learners understood the applications of Differentiation.
Algebra-II	USMT202	CO1. Learners understood system of linear equations and matrices.
PAPER –II	USMT202	CO2 Learners understand concert of vector anges subspace and it's manufic
L		CO2. Learners understood concept of vector space, subspace and it's properties.

		CO3. Learners understood concept of basis of a vector space. Also they learn properties of linear
		CO4. tansformation.
SEMESTER - II	Ι	
		On completion of the course learners will be able to understand,
Calculus –III	USMT301	CO1. Functions of 2 and 3 variables.
		CO2. Differentiation of 2variables and it's properties.
		CO3. Applications of Differentiation.
		The course enables the learners will be able to understand,
	USMT302	CO1. Linear transformations and matrices.
Algebra -III		CO2. properties of Determinants.
		CO3. properties of Inner product spaces, Cauchy-Schwartz inequality and Triangle inequality.
		Learners are able to get knowledge about,
Discrete	USMT303	CO1. Permutations and recurrence relations and it's types.
Mathematics		CO2. Pigeonhole principle and it's applications.
		CO3. Advanced counting.
SEMESTER - IV	·	
		The course enables the students to understand,
		CO1. The properties of Riemann integration.
Calculus -IV	USMT401	CO2. Indefinite and improper
Calculus -1 v		CO3. Integrals.
		CO4. Applications of definite
		CO5. Integrals, properties of beta and gamma functions.
		Learners are able to understand,
	USMT402	CO1. Groups, Subgroups and it's properties.
Algebra -IV		CO2. Cyclic Groups, cyclic Subgroups and it's properties.
		CO3. Langrange's theorem and group homomorphism.
		Learners are expected to learn
Ordinary	USMT 403	CO1. Set up Mathematical models of real world problems and obtain solutions for the same.
Differential	USIVIT 403	CO2. Exact differential equations and various types, second order linear differential equations, series
Equations		method of solution, linear partial differential equations.
-		CO3. Linear system of ordinary differential equations.

The level of attainm	ent of B.Sc. Ma	thematics programme :- 90.47 %
PROGRAMME : I	B.Sc. Computer	Science
SEMESTER - I		
Computer Organization and Design	USCS 101	 CO1. To learn about how computer systems work and underlying principles CO2. To understand the basics of digital electronics needed for computers CO3. To understand the basics of instruction set architecture for reduced and complex instruction sets CO4. To understand the basics of processor structure and operation
Design		CO5. To understand how data is transferred between the processor and I/O devices
Programming with Python- I	USCS 102	 CO1. Students should be able to understand the concepts of programming before actually starting to write programs. CO2. Students should be able to develop logic for Problem Solving. CO3. Students should be made familiar about the basic constructs of programming such as data, operations, conditions, loops, functions etc. CO4. Students should be able to apply the problem solving skills using syntactically simple language i.e. Python (version: 3.X or higher)
Free and Open- source Software	USCS 103	 CO1. Upon completion of this course, students should have a good working knowledge of Open Source ecosystem, its use, impact and importance. CO2. This course shall help student to learn Open Source methodologies, case studies with real lifeexamples.
Database Systems	USCS 104	 CO1. Students should be able to evaluate business information problem and find the requirements of a problem in terms of data. CO2. Students should be able to design the database schema with the use of appropriate data types for storage of data in database. CO3. Students should be able to create, manipulate, query and back up the databases.
Discrete Mathematics	USCS 105	 CO1. To provide overview of theory of discrete objects, starting with relations and partially ordered sets. CO2. Study about recurrence relations, generating function and operations on them. CO3. Give an understanding of graphs and trees, which are widely used in software. CO4. Provide basic knowledge about models of automata theory and the corresponding formal languages

Descriptive Statistics and Introduction to Probability	USCS 106	CO1. Enable learners to know descriptive statistical concepts CO2. Enable study of probability concept required for Computer learners
Soft Skills Development	USCS 107	 CO1. To know about various aspects of soft skills and learn ways to develop personality CO2. Understand the importance and type of communication in personal and professional environment. CO3. To provide insight into much needed technical and non-technical qualities in career planning. CO4. Learn about Leadership, team building, decision making and stress management
SEMESTER - II		
Programming with C	USCS 201	 CO1. Students should be able to write, compile and debug programs in C language. CO2. Students should be able to use different data types in a computer program. CO3. Students should be able to design programs involving decision structures, loops and functions. CO4. Students should be able to explain the difference between call by value and call by reference CO5. Students should be able to understand the dynamics of memory by the use of pointers. CO6. Students should be able to use different data structures and create/update basic data files.
Programming with Python – II	USCS 202	 CO1. Students should be able to understand how to read/write to files using python. CO2. Students should be able to catch their own errors that happen during execution of programs. CO3. Students should get an introduction to the concept of pattern matching. CO4. Students should be made familiar with the concepts of GUI controls and designing GUI applications. CO5. Students should be able to connect to the database to move the data to/from the application. CO6. Students should know how to connect to computers, read from URL and send email.
Linux	USCS 203	 CO1. Upon completion of this course, students should have a good working knowledge of Linux, from both CO2. a graphical and command line perspective, allowing them to easily use any Linux distribution. CO3. This course shall help student to learn advanced subjects in computer science practically. CO4. Student shall be able to progress as a Developer or Linux System Administrator using the acquired skill set.
Data Structures	USCS 204	 CO1. Learn about Data structures, its types and significance in computing CO2. Explore about Abstract Data types and its implementation CO3. Ability to program various applications using different data structure in Python

Calculus	USCS 205	CO1. Understanding of Mathematical concepts like limit, continuity, derivative, integration of
		functions.
		CO2. Ability to appreciate real world applications which uses these concepts.
		CO3. Skill to formulate a problem through Mathematical modeling and simulation
Statistical Methods	USCS 206	CO1. Enable learners to know descriptive statistical concepts
and Testing of		CO2. Enable study of probability concept required for Computer learners
Hypothesis		
Green Technologies	USCS 207	CO1. Learn about green IT can be achieved in and by hardware, software, network communication and
		data center operations.
		CO2. Understand the strategies, frameworks, processes and management of green IT
SEMESTER - III		
Theory of		CO1. Understand Grammar and Languages
Computation	USCS 301	CO2. Learn about Automata theory and its application in Language Design
	0505 501	CO3. Learn about Turing Machines and Pushdown Automata
		CO4. Understand Linear Bound Automata and its applications
Core Java	USCS 302	CO1. Object oriented programming concepts using Java.
		CO2. Knowledge of input, its processing and getting suitable output.
		CO3. Understand, design, implement and evaluate classes and applets.
		CO4. Knowledge and implementation of AWT package.
Operating System	USCS 303	CO1. To provide a understanding of operating system, its structures and functioning
		CO2. Develop and master understanding of algorithms used by operating systems for various purposes.
Database	USCS 304	CO1. Master concepts of stored procedure and triggers and its use.
Management		CO2. Learn about using PL/SQL for data management
Systems		CO3. Understand concepts and implementations of transaction management and crash
•		recovery
Combinatorics and	USCS 205	CO1. Appreciate beauty of combinatorics and how combinatorial problems naturally arise in
Graph Theory		many settings.
		CO2. Understand the combinatorial features in real world situations and Computer Science
		applications.
		CO3. Apply combinatorial and graph theoretical concepts to understand Computer Science
		concepts and apply them to solve problems

Physical Computing	USCS 306	CO1. Enable learners to understand System On Chip Architectures.
and IoT		CO2. Introduction and preparing Raspberry Pi with hardware and installation.
Programming		CO3. Learn physical interfaces and electronics of Raspberry Pi and program them using practical's
		CO4. Learn how to make consumer grade IoT safe and secure with proper use of protocols
Web Programming	USCS 307	CO1. To design valid, well-formed, scalable, and meaningful pages using emerging technologies.
		CO2. Understand the various platforms, devices, display resolutions, viewports, and browsers that
		render websites
		CO3. To develop and implement client-side and server-side scripting language programs.
		CO4. To develop and implement Database Driven Websites.
		CO5. Design and apply XML to create a markup language for data and document centric
		applications.
SEMESTER - IV		
Fundamentals of		CO1. Understand the concepts of algorithms for designing good program
Algorithms	USCS 401	CO2. Implement algorithms using Python
Advanced Java	USCS 402	CO1. Understand the concepts related to Java Technology
		CO2. Explore and understand use of Java Server Programming
Computer Networks	USCS 403	CO1. Learner will be able to understand the concepts of networking, which are important for them to
•		be known as a 'networking professionals'.
		CO2. Useful to proceed with industrial requirements and International vendor certifications.
Software	USCS 404	CO1. Graduates are effective team members, aware of cultural diversity, who conduct themselves
Engineering		ethically and professionally.
		CO2. Graduates use effective communication skills and technical skills to assure production of quality
		software, on time and within budget.
		CO3. Graduates build upon and adapt knowledge of science, mathematics, and engineering to take on
		more expansive tasks that require an increased level of self-reliance, technical expertise, and
		leadership.
Linear Algebra	USCS 405	CO1. Appreciate the relevance of linear algebra in the field of computer science.
using Python		CO2. Understand the concepts through program implementation
		CO3. Install a computational thinking while learning linear algebra
.Net Technologies	USCS 406	CO1. Understand the .NET framework
.ivet reenhologies	0000 100	

		CO3. Proficiently develop ASP.NET web applications using C#
		CO3. Use ADO.NET for data persistence in a web application $C^{\#}$
Android Developer	USCS 407	CO1. Understand the requirements of Mobile programming environment.
Fundamentals		CO2. Learn about basic methods, tools and techniques for developing Apps
		CO3. Explore and practice App development on Android Platform
		CO4. Develop working prototypes of working systems for various uses in daily lives.
SEMESTER - V	1	
Artificial		CO1. After completion of this course, learner should get a clear understanding of AI and different
Intelligence	USCS 501	search algorithms used for solving problems.
	0000000	CO2. The learner should also get acquainted with different learning algorithms and models used in machine learning.
Linux Server	USCS 502	CO1. Learner will be able to develop Linux based systems and maintain.
Administration		CO2. Learner will be able to install appropriate service on Linux server as per requirement. 3)Learner
		will have proficiency in Linux server administration.
Software Testing	USCS 503	CO1. Understand various software testing methods and strategies.
and Quality		CO2. Understand a variety of software metrics, and identify defects and managing those defects for
Assurance		improvement in quality for given software.
		CO3. Design SQA activities, SQA strategy, formal technical review report for software quality control and assurance.
Information and	USCS 504	CO1. Understand the principles and practices of cryptographic techniques.
Network Security		CO2. Understand a variety of generic security threats and vulnerabilities, and identify & analyze
		particular security problems for a given application.
		CO3. Understand various protocols for network security to protect against the threats in a network
Architecting of IoT	USCS 505	CO1. Learners are able to design & develop IoT Devices.
		CO2. They should also be aware of the evolving world of M2M Communications and IoT analytics.
Web Services	USCS 506	CO1. Emphasis on SOAP based web services and associated standards such as WSDL.
		CO2. Design SOAP based / RESTful / WCF services Deal with Security and QoS issues of Web
		Services
Game Programming	USCS 507	CO1. Learner should study Graphics and gamming concepts with present working style of developers
0		where everything remains on internet and they need to review it, understand it, be a part of
		community and learn.

SEMESTER - VI		
Wireless Sensor Networks and Mobile Communication	USCS 601	 CO1. After completion of this course, learner should be able to list various applications of wireless sensor networks, describe the concepts, protocols, design, implementation and use of wireless sensor networks. CO2. Also implement and evaluate new ideas for solving wireless sensor network design issues.
Cloud Computing	USCS 602	 CO1. After successfully completion of this course, learner should be able to articulate the main concepts, key technologies, strengths, and limitations of cloud computing and the possible applications for state-of-the-art cloud computing using open source technology. CO2. Learner should be able to identify the architecture and infrastructure of cloud computing, including SaaS, PaaS, IaaS, public cloud, private cloud, hybrid cloud, etc. They should explain the core issues of cloud computing such as security, privacy, and interoperability.
Cyber Forensics	USCS 603	CO1. The student will be able to plan and prepare for all stages of an investigation - detection, initial response and management interaction, investigate various media to collect evidence, report them in a way that would be acceptable in the court of law.
Information Retrieval	USCS 604	 CO1. After completion of this course, learner should get an understanding of the field of information retrieval and its relationship to search engines. CO2. It will give the learner an understanding to apply information retrieval models.
Digital Image Processing	USCS 605	 CO1. Learner should review the fundamental concepts of a digital image processing system. Analyze the images in the frequency domain using various transforms. CO2. Evaluate the techniques for image enhancement and image segmentation. CO3. Apply various compression techniques. They will be familiar with basic image processing techniques for solving real problems.
Data Science	USCS 606	CO1. After completion of this course, the students should be able to understand & comprehend the problem; and should be able to define suitable statistical method to be adopted.
Ethical Hacking	USCS 607	 CO1. Learner will know to identify security vulnerabilities and weaknesses in the target applications. CO2. They will also know to test and exploit systems using various tools and understand the impact of hacking in real time machines.
		athematics programme :- 23.07%
PROGRAMME : SEMESTER - I	B.Sc Informatio	n Technology

		CO-1	To understand problem and to create the solution by writing a algorithms and drawing
		001	flowchart.
Imperative Programming	USIT-101	CO^{2}	To write problem into computerized form by using various programming concepts.
	0511-101		To understand the procedure orientated programming structure and basic of object
		0-5	Orientated programming
		CO-1	
			Represent numbers and perform arithmetic operations.
Digital Electronics	USIT-102	CO-3	
		CO-4	Analyze and design combinational circuit.
		CO-5	Analyze and design counter, Shift Register
			To understand the main components of an OS & their functions.
		CO-2	To study the process management and scheduling. To understand various issues in Inter
			Process Communication (IPC) and the role of OS in IPC.
	USIT-103	CO-3	To understand the concepts and implementation Memory management policies and
Operating Systems			virtualmemory.
		CO-4	To understand the working of an OS as a resource manager, file system manager, process
			manager, memory manager and I/O manager and methods used to implement the different
			parts of OS.
		CO-5	To understand the working of Linux operating system and android operating system.
		CO-1	Apply the Set theory and Relation concepts.
		CO-2	Identify the permutations and combinations.
Discrete Mathematics	USIT-104	CO-3	Define variable and also identify the mapping.
		CO-4	Apply probability and understand PDF.
		CO-5	Apply the graphs and trees concepts to different applications.
		CO-1	
		CO-2	To enhance effective communication and interpersonal skills.
Communication Skills	USIT-105		To build multidisciplinary approach towards all life tasks.
		CO-4	
		CO-5	To Design a technical document using precise language, suitable vocabulary and apt style.
SEMESTER - II	1		
Object Oriented		CO-1	To create the object oriented programming application.
Programming	USIT-201	CO-2	Understand the features of C++ supporting object oriented programming.
	1		

		CO-3	Understand how to apply the major object-oriented concepts to implement object oriented
			programs in C++.
		CO-4	Understand advanced features of C++ specifically stream I/O, templates and operator
			Overloading
		CO-1	To understand the architecture of microprocessor and its interfacing.
MicroprocessorArchitectur	USIT-202	CO-2	To understand the programming techniques and I/O interfacing.
e		CO-3	To understand the concepts of counters and delays, stacks and sub-routines.
e		CO-4	To understand Code conversion techniques and interrupts.
		CO-5	To understand the basic concept of Pentium Processor.
		CO-1	Implement interactive web page(s) using HTML, CSS and JavaScript.
		CO-2	Design a responsive web site using HTML5 and CSS3.
Web Programming	USIT-203	CO-3	Design a responsive web site using Java Script.
		CO-4	Design a responsive web site using PHP.
		CO-5	Build Dynamic web site using server side PHP Programming and Database connectivity.
		CO-1	Problem solving by using Bisection Method, Newton-Raphson Method, Regula-
Numerical and Statistical	USIT-204		falsiMethod.
Methods	0511-204	CO-2	Problem Solution of simultaneous algebraic equation by using iterative methods.
		CO-3	Problem solution by using Least-Square Regressions
		CO-1	Describe awareness among stakeholders and promote green agenda and green initiatives in
			their working environments leading to green movement
		CO-2	Identify IT Infrastructure Management and Green Data Centre Metrics for software
			development
Green Computing	USIT-205	CO-3	Recognize Objectives of Green Network Protocols for Data communication.
		CO-4	Use new career opportunities available in IT profession, audits and others with special skills
			such as energy efficiency, ethical IT assets disposal, carbon footprint estimation, reporting
			and development of green products, applications and services.
		CO-5	To understand how Green IT is adopted or deployed in enterprises.
SEMESTER - III			
	USIT-301	CO-1	To understand the basics of Python and Decision Making in Python
Python Programming		CO-2	To understand the function in Python and understanding string data type.
i yulon i togranning		CO-3	To understand the different data type like list, tuples, dictionaries, File-Handling,
		CO-4	To understand the Regular Expression, Object Oriented Programming and understanding

			multithreading concept
		CO-5	To understand GUI Programming and Databases operations in Python
		CO-1	Understand and remember algorithms and its analysis procedure.
		CO-2	Introduce the concept of data structures through ADT including List, Stack, and Queues.
Data Structure	USIT-302	CO-3	To design and implement various data structure algorithms.
		CO-4	To design and implement various data structure algorithms.
		CO-5	To develop application using data structure algorithms.
		CO-1	Differentiate analog and digital communication systems.
		CO-2	Identify different types of noise occurred, its minimization and able to apply Fourieranalysis
			in frequency & time domain to quantify bandwidth requirement of variety of analog and
Computer Networks	USIT-303		digital communication systems.
	0011 505	CO-3	Apply sampling theorem to quantify the fundamental relationship between
			channelbandwidth, digital symbol rate and bit rate
		CO-4	Explain different types of line coding techniques for generation and detection of signals.
		CO-5	CO 5 :Demonstrate the different wireless technologies such as CDMA, GSM, GPRS etc.
		CO-1	Explain the features of database management systems and Relational database.
	USIT-304	CO-2	Design conceptual models of a database using ER modeling for real life applications.
Database Management		CO-3	Also construct queries in Relational Algebra.
Systems		CO-4	Create and populate a RDBMS for a real life application, with constraints and keys, using.
		CO-5	Retrieve any type of information from a data base by formulating complex queries.
		CO-6	To be able to implements the query to maintain the data in the database.
	USIT-305	CO-1	Apply the Matrix operations and representation of Complex Numbers (regular form, polar
		CO 1	form, exponential form)
		CO-1	Demonstrate the different Differential Equation with constant coefficients
Applied Mathematics		CO-2	Apply Laplace transform, Inverse Laplace transform to different
		CO-3	Introduction of Double Integral, Triple integral, Application of Integration
		CO-4	Problem solving on Beta & Gamma functions, Differentiation under the Integral Sign, Error Functions
SEMESTER - IV			
		CO-1	Implement Object Oriented programming concept using basic syntaxes of control
Core JAVA	USIT-401	0.0-1	Structures, strings and function for developing skills of logic building activity.
		CO-2	Identify classes, objects, members of a class and their relationships among them needed for
			recently classes, sejects, memories of a class and their relationships among them needed for

		CO-3	finding the solution to specific problem. Demonstrates how to achieve reusability using inheritance, interfaces and packages and
		0-5	describes faster application development can be achieved.
		CO-4	Demonstrate understanding and use of different exception handling mechanisms and
			concept of multithreading for robust faster and efficient application.
		CO-5	Identify and describe common abstract user interface components to design GUI in
			JavaUsing Applet & AWT along with response to events.
		CO-1	To understand the concepts and architecture of embedded systems.
		CO-2	To understand the concepts of application specific and domain specific system and
Introductionto Embedded			studydifferent peripherals.
Systems	USIT-402	CO-3	To understand the concepts of microcontroller interface and learning embedded c++
		GO 4	language.
		CO-4	To understand Designing and Programming of the embedded systems.
		CO-5	To understand working of RTOS and design development of Embedded Systems.
Computer Oriented		CO-1	Understand sampling theory and correlation, Statistical Decision theory.
Statistical Techniques	USIT-403	CO-2	Identify and describe Moments, Skewness and Kurtosis by using R-programming.
1		CO-3	Solving problem on curve fitting by using Method of Least Squares.
		CO-1	Define various software application domains and remember different process model usedin software development.
	USIT-404	CO-2	Explain needs for software specifications also they can classify different types of Software requirements and their gathering techniques.
Software Engineering		CO-3	Convert the requirements model into the design model and demonstrate use of software and
		005	user interface design principles.
		CO-4	Justify role of SDLC in Software Project Development and they can evaluate importance Of
			Software Engineering in PLC.
		CO-1	To introduce the use of the components of a graphics system and become familiar with
	USIT-405		building approach of graphics system components and algorithms related with them.
		CO-2	To learn the basic principles of 3- dimensional computer graphics.
Computer Graphics and Animation		CO-3	Provide an understanding of how to scan convert the basic geometrical primitives, how to
Ammauon			transform the shapes to fit them as per the picture definition.
		CO-4	Provide an understanding of mapping from a world coordinates to device coordinates,
			clipping, and projections.

		CO-5 To be able to discuss the application of computer graphics concepts in the development of computer games, information visualization, and business applications.
SEMESTER - V		
Software Project Management	USIT-501	 CO-1 To understand the nature of software development and software life cycle process models, agile software development, SCRUM and other agile practices. CO-2 To explain methods of capturing, specifying, visualizing and analyzing software requirements. CO-3 To understand concepts and principles of software design and user-centric approach and principles of effective user interfaces. CO-4 To know basics of testing and understanding concept of software quality assurance and software configuration management process. CO-5 To understand need of project management and project management life cycle.
Internet of Things	USIT-502	 CO-1 To understand the principles required for designing and understanding basic concept of networking. CO-2 To understand what is require thinking about prototyping and what are the platforms available for prototyping. CO-3 Preparing Physical Design of Prototype using 3d printers and different techniques and preparing prototype using online components such API's. CO-4 To understand the techniques required to write embedded programme and to understand business models CO-5 To understand how to move your prototype for manufacturing and learning ethics of prototyping.
Advanced Web Programming	USIT-503	 CO-1 To due to development .net framework CO-2 To work in Website designing field CO-3 To work on design testing phase(Error handling , managing state, maintaining common look and fill by website beautification CO-4 To work in the field of Database connectivity CO-5 Provide the security of website authentication authorization , use the external tools like Ajax, Query while developing website
Artificial Intelligence	USIT-504	CO-1 Demonstrate knowledge of the building blocks of AI as presented in terms of intelligent agents.CO-2 Analyze and formalize the problem as a state space, graph, design heuristics and select

	amongst different search or game based techniques to solve them.
	CO-3 Develop intelligent algorithms for constraint satisfaction problems and also design
	intelligent systems for Game Playing
	CO-1 To learn and understanding Linux Basic commands, software installing by using YUM and
	RPM.
0511-505	CO-1 To learn Network configuration.
	CO-2 Student understand the securing server with iptables and configuring server for File sharing
	CO-2 To learn and understanding JAVAEE Application.
	CO-3 Identify advance concepts of java programming with database connectivity.(JDBC)
	CO-4 Design and develop platform independent applications using a Interceptors, JNDI, session,
0511-506	and cookies.
	CO-5 Able to implement the concepts of EJB for building enterprise applications.
	CO-6 Able to implement the concepts of Hibernates, JPA for building enterprise applications.
	CO-1 Demonstrate capability to use Big Data Frameworks like Hadoop
	CO-2 Demonstrate an ability to use frameworks like Hadoop, NOSQL to efficiently store retrieve
USIT-507	and process Big Data for Analytics.
	CO-3 Apply several newer algorithms for Clustering Classifying and finding associations in Big
	Data
	CO-1 Students will understand Basic software debugging methods.
	CO-2 Understood the White box testing methods and able to implement techniques.
USIT-601	CO-3 Students will learn the Black Box testing methods and techniques and use of BBT.
	CO-4 Designing test plans. Different testing tools (familiar with open source tools).
	CO-5 Will able to understand the concept of Quality Assurance models.
	CO-1 Understand the concept of vulnerabilities, attacks and protection mechanisms
	CO-2 Explain the concepts of confidentiality, availability and integrity (CIA) in context of
USIT-602	Information Assurance;
	CO-3 Articulate the threats to CIA and be able to analyze a given architecture, discern
	vulnerabilities and recommend physical, logical or administrative controls to mitigate the
	threat.
	CO-1 Demonstrate an understanding of the importance of data mining and the principles of
US11-603	Business intelligence
	USIT-601

		CO-2 Organize and prepare the data needed for data mining using preprocessing techniques.
		CO-3 Define and apply metrics to measure the performance of various data mining algorithms.
Principles of Geographic	USIT-604	 CO-1 Will learn a general introduction to Geographic information system, nature of GIS and computer representation of Geographic information. CO-2 Students will learn data management and processing system hardware and software trends. CO-3 Students will be able to understand Spatial representation and positioning and spatial
Information System	0311-004	referencing.CO-4 Able to implement spatial data types analysis classification of analytical GIS capabilities.CO-5 Will be able to learn data visualization GIS maps and the visualization process and visualization strategies.
Enterprise Networking	USIT-605	 CO-1 Understand the customer requirements and Apply a Methodology to Network Design CO-2 Structure and Modularize the Network CO-3 Design Remote Connectivity CO-4 Design IP Addressing and Select suitable Routing Protocols for the Network CO-5 Compare Open flow controllers and switches with other enterprise networks.
IT Service Management	USIT-606	 CO-1 Student will get the general idea about IT service management, service strategy principle critical success factor and risks. CO-2 Will be able to understand service design fundamentals and service design principles CO-3 Student will be understood service operation, service operation processes, challenges, critical success factor and risks.
Cyber Law	USIT-607	 CO-1 To understand the IT Act 2000. CO-2 To understand jurisdiction in the cyber law. CO-3 To understand the concept of copyright protection in cyber world. CO-4 To study E-Commerce taxation real problem in virtual world. CO-5 Comparing Indian Evidence Act of 1872 vs IT Act 2000.
The level of attainment of B	B.Sc. Informa	tion Technology programme :- 60.00 %