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Anekant Education Society's

TULJARAM CHATURCHAND COLLEGE

of Arts, Science and Commerce, Baramati - 413102.

Dist. Pune. Maharashtra, India.

Empowered Autonomous Status

Religious Minority Institute

NAAC Reaccredited 'A+' Grade, CGPA 3.55

NAAC-SSR

Cycle IV

2019 - 2024

DEFENCE

Programe	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
			Local	National	Regional	Global	
FYBA	DEF-101-MJM	Defence Organization of India Part-I	Military Intelligence	Military Intelligence	Military Intelligence	Military Intelligence	PO3 Social competence: CO1 : Students have knowledge of various Defence forces and their function
	DEF-151-MJM	Defence Organization of India Part-II	Military Technology and Modernization	Military Technology and Modernization	Military Technology and Modernization	Military Technology and Modernization	CO1 : Students have knowledge of various Defence force





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							s and their function
DEF-102-MJM	Indian art of War post 1947 Part-I	Strategy and Tactics	Strategy and Tactics	Strategy and Tactics	Strategy and Tactics	Strategy and Tactics	PO4 : Disciplinary Knowledge CO2: Students will be able to explain the meaning and purpose of Strategy and Tactics..
DEF-152-MJM	Indian art of War post 1947 Part-II	Other Major Conflicts	Other Major Conflicts	Other Major Conflicts	Other Major Conflicts	Other Major Conflicts	CO7: Empowered with analytical thinking and strategic decision-making
DEF-116-OE	Key Concept of National Security Part-I	National Power	National Power	National Power	National Power	National Power	PO1 Research-Related Skills CO5: Students will be able to understand various key





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							concept of national security
	DEF-166-OE	Key Concept of National Security Part-II	Non-conventional threat	Non-conventional threat	Non-conventional threat	Non-conventional threat	CO2: Students will become familiar with the evolution of various power games at an international level. CO3: Students will be able to explain various key concepts of national security.
	DEF-117-OE	Maratha Military System Part-I	Maharashtra's Geopolitics	Maharashtra's Geopolitics	Maharashtra's Geopolitics		CO4: Students will be able to relate the geographical condition of Maharashtra and the strategic military movement in that era.
	DEF-167-OE	Maratha Military System Part-II	Maratha Aarmar		Maratha Aarmar		CO3: Students will become familiar with the Maratha





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							power and might.
	DEF-121-VSC	Basics of Defence Journalism Part-I	Role of social media in Reporting	Role of social media in Reporting	Role of social media in Reporting	Role of social media in Reporting	CO1: Students will be able to explain holistically various issues related to that subject.
	DEF-171-VSC	Basics of Defence Journalism Part-II	Media Law	Media Law	Media Law	Media Law	CO6: Students will become familiar with the various defence happenings at national and international level
	DEF-126-SEC	Basics of Cyber Security Part-I	Cyber Security Comparative	Cyber Security Comparative	Cyber Security Comparative	Cyber Security Comparative	PO3 Social competence: CO5: Students will be able to characterize privacy, legal and ethical issues of information security





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	DEF-176-SEC	Basics of Cyber Security Part-II	Cyber Security	Cyber Security	Cyber Security	Cyber Security	CO4: Student will be able to understand various cyber security concepts and principles.
	DEF-137-IKS	Indian Military History	Indian War	Indian War	Indian War		CO6: Students will become familiar in evolution of art of warfare in India.
	DEF-161-MN	Maritime Security of India		Maritime Security in India	Maritime Security in India		CO1: Explain the meaning and purpose of maritime security.
SYBA	UAD S231 (A)	Military Geography- I	Role of Geography In War	Role of Geography In War	Role of Geography In War	Role of Geography In War	CO1: Analyze the specific arms and logistics required for effective warfare in different terrains.
	UAD S 241 (A)	Military Geography- II		Sea Warfare		Sea Warfare	PO4: Disciplinary





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							<p>Knowledge</p> <p>CO3: Examine the characteristics and roles of the Armored Corps in modern warfare.</p>
	UAD S 231(B)	Geopolitics-I	Maritime Boundaries and Territorial sea(Maritime Boundaries and Territorial sea(Maritime Boundaries and Territorial sea(Maritime Boundaries and Territorial sea(<p>PO2 Effective Citizenship and Ethics</p> <p>CO2: Evaluate how Geopolitics influences national security policies and geopolitical strategies.</p>
	UAD S 241 (B)	Geopolitics II	Frontier and Boundaries	Frontier and Boundaries	Frontier and Boundaries	Frontier and Boundaries	<p>PO2 Effective Citizenship and Ethics</p> <p>CO1: Understand the concept and role of a buffer and landlocked</p>





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							state in geopolitics.
	UAD S 232	International Relations I	Realism Idealism Marxism	Realism Idealism Marxism	Realism Idealism Marxism	Realism Idealism Marxism	PO1 Research-Related Skill CO5: Select methods of analysis appropriate to research in the student's chosen concentration and apply at least one of these methods to a understand question in international relations
	UAD S 242	International Relations II	Power	Power	Power	Power	PO4 Disciplinary Knowledge CO2: Analyze case studies of successful and unsuccessful diplomatic efforts.





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	UAD S 233	India's Internal Security I	National Security	National Security	National Security		<p>PO6 Self-directed and Life-long learning</p> <p>CO1: Define and understand the concept of internal security, with a specific focus on India.</p>
	UAD S 243	India's Internal Security II	Cybercrime	Cybercrime	Cybercrime	Cybercrime	<p>PO6 Self-directed and Life-long learning</p> <p>CO7: Analyze the coordination mechanisms among various security agencies.</p>
	DEF-3501(A)	India's National Security in 21st Century I	National security	National security	National security	National security	<p>PO6 Self-directed and Life-long learning</p> <p>PO5 Personal and</p>





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TYBA							professiona l competenc e
	DEF 3601(A)	India's National Security in 21st Century II		India's nuclear policy			CO1 : Stud ents will get thro ugh know ledg e of India 's inter nal and exter nal secu rity envir onm ent
							CO2 : Look East Polic y and Anal yze the geop olitic al facto rs





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							that influenced the initiation of the policy.
	DEF 3501(B)	War and Contemporary Warfare I	Nuclear Warfare	Nuclear Warfare	Nuclear Warfare	Nuclear Warfare	CO4 : Students will understand how recent changes in warfare affect the utility of the forces in international relations.
	DEF 3601(B)	War and Contemporary Warfare II	Cyber Warfare	Cyber Warfare	Cyber Warfare	Cyber Warfare	CO4: Analyze the impact of technology on military





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							capabilities and strategic considerations.
DEF 3502	International and Regional Organizations I			United Nation		United Nation	CO2: Student will be able to understand the role of United Nations in global peace and security.
DEF 3602	International and Regional Organizations II	International Regional Organization	International Regional Organization	International Regional Organization	International Regional Organization	International Regional Organization	CO7: This course provides a comprehensive understanding of various regional and international organizations
DEF 3503	Defence Economics I	Indian Economic System	Indian Economic System	Indian Economic System	Indian Economic System	Indian Economic System	CO4: Student will be able to explain and analyze the impact of arm race on the nation's economy. CO5: Student will be able





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							to analyze the complex relations between defence and developments.
	DEF-3603	Defence Economics II	War Time Economy	War Time Economy	War Time Economy	War Time Economy	CO2: Identify and understand the characteristics of a war-time economy.



ECONOMICS

Programe	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
			Local	Regional	National	Global	
B.A. Economics	G1	Indian Economy – Problems and Prospects	1. Major issues of Development in India 2. Measures for Population Control	1. Major issues of Development in India 2. Measures for Population Control	1. Major issues of Development in India 2. Measures for Population Control	1. Major issues of Development in India 2. Measures for Population Control	CO 1: Acquainting students with the problems of the economy.
	ECOGEN2301	Banking & Finance	Technology in Banking	Technology in Banking	1. Functions of Banks 2. Methods of Remittances 3. Functions of RBI	Technology in Banking	CO 1: To acquaint students with various types & functions of Banks and negotiable instruments and modern technology in banking.
	ECOSPL2302	Micro Economics -I	1. Basic Economic Problems 2. Revenue and Cost Concepts				CO 2: To expose Students of Arts to basic Micro Economics concepts and inculcate an analytical approach to



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							the subject matter.
	ECOGE N3501	Economic Development and Planning-I	Indicators of Economic Growth and Development	Indicators of Economic Growth and Development	Indicators of Economic Growth and Development	Indicators of Economic Growth and Development	CO 1: To acquaint students with concept of economic growth and development, various Characteristics of Developing Countries, Development Process and Theories.
MA Economics (PG)	ECO-102	Public Finance I	Role of Government in Organized Society	Role of Government in Organized Society	1.Role of Government in Organized Society 2. Issues in India's Federal finance	Role of Government in Organized Society	CO 2: To appraise students with various concepts of public revenue and expenditure of the government .
	ECO 103	International Economics I			WTO-Important Agreements, Major developments since 1995	WTO-Important Agreements, Major developments since 1995	CO 2: To familiarize classical and modern theories of international trade.



	ECO 104	Indian Economic Policy	Debate on Inclusive Growth	Debate on Inclusive Growth	India's Experience in Planning	Comparison of Indian Economy with the world in major economic Indexes	CO 2 : To understand the undercurrents behind the policy making and its implementation.
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			Local	National	Regional	Global	
FYBA	GEO 1101	Physical Geography	Global Warming	Global Warming	Global Warming	Global Warming	CO-1. Students will be able to understand the causes and strategies to face issues of global warming
	GEO 1201	Human Geography	Migration and its Effects	Population Explosion	Population Explosion	Population Explosion	CO-1. Students will be able to understand the causes and strategies to tackle with migration problem CO-2. Students can develop and implement



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							different policies to control population explosion.
SYBA	GEO2301	Environment Geography- I	Ecosystem, Pollution	Ecosystem, Pollution	Ecosystem, Pollution	Ecosystem, Pollution	CO-1 Students should be able to integrate various factors of Environment and dynamic aspect of Environmental geography. CO-2 Students make aware about the problems of environment pollution.





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	GEO2 302	Geography of Maharashtra	Flood and drought prone areas	----	Flood and drought prone areas	---	CO-1 Students will be able to understand the causes and impact of the flood and drought. CO-2 Students will learn the strategies to cope with these disasters.
	GEO2 303	Practical Geography		Projection		Projection	CO-1 Students can be able to identify any map scale and projection. They can also know which projection is suitable for given region
	GEO2 401	Environment	Environmental Problems	Environmental Problems	Environmental Problems	Environmental Problems	CO-1 Students





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		Geography- I	and Planning	and Planning	and Planning	and Planning	aware about Environment issues.
	GEO2403	Practical Geography	Advanced Techniques in Mapping	Advanced Techniques in Mapping	Advanced Techniques in Mapping	Advanced Techniques in Mapping	CO-11 Develop practical knowledge and application of cartographical techniques. CO-2 To make students aware of the new techniques, accuracy and skills of Map Making.
TYBA	GEO3501	Geography of Tourism	Role of transportation and communication in tourism	Role of transportation and communication in tourism	Role of transportation and communication in tourism	Role of transportation and communication in tourism	CO-1 Students will understand importance of transportation and communication in tourism
	GEO3603	Practical in statistical	Data collection and analysis	Data collection and analysis	Data collection and analysis	Data collection and analysis	CO-1 Develop skills by





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		techniques					problem-solving, field and/or primary and secondary data collection, analysis and interpretation
MA I Geography (PG)	GEO 4102	Principles of Climatology	Acid Precipitation, Global Warming	Climate Change	Climate change	Climate Change	CO-1 Students will be able to understand the causes of global warming, climate change and acid precipitation. CO-2. Students can find out the remedies to control consequences of such calamities
	GEO4104	Principles of Population and Settlement Geography	Population Dynamics	Population Dynamics	Population Dynamics	Population Dynamics	CO-1 Students know the approaches and various theories in population and settlement geography. CO-2 Students understand





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							the dynamics of population and its role in population policies CO-3 Concepts of settlement patterns and types are well understood by students. CO-4 Students are able to apply knowledge of population and settlement geography in developmental planning
	GEO 4105	Practical in Physical Geography	Representation of weather elements data	Representation of weather elements data	Representation of weather elements data	Representation of weather elements data	CO-1. Students will be able to collect various types of weather elements data and can develop new technologies to collect data. CO-2. with weather data students can predict or forecast weather conditions at local or





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	GEO 4204	Geography of Disaster Management	Mitigation of Disaster	Mitigation of Disaster	Mitigation of Disaster	Mitigation of Disaster	CO-1. Students can implement different strategies for disaster management at local and regional level CO-2. Students can develop warning system for natural disaster like Tsunami, Earthquake.
	GEO 4205	Practical in Surveying	Advance surveying Techniques	Advance surveying Techniques	Advance surveying Techniques	Advance surveying Techniques	CO-1. Students will be able to carry out the survey for local, regional and national level administrative authorities for different purpose like planning of town, construction of roads, bridge etc.
	GEO4 214	Practical of Statistical Techniq	Correlation, Inferential Statistics	Correlation, Inferential Statistics			CO-1 Students are able to apply various descriptive





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		ues for Geogra phy					and inferential techniques on geographical data. CO-2. Students will enable to correlate different geographical data.
MA I Geogra phy (PG)	GEO 5314	Waters hed manage ment	Watershe d Develop ment and soil conservat ion and water conservat ion technique s	Watershe d Develop ment and soil conservat ion and water conservat ion technique s	Watershe d Develop ment and soil conservat ion and water conservat ion technique s	Watershe d Develop ment and soil conservat ion and water conservat ion technique s	CO-1. Students will able to understand and develop different techniques for soil and water conservation CO-2. Students can implement different policies for sustainable development of watershed.





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Programme	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
			Local	National	Regional	Global	
B.A. Hindi	FYBA SEM-I 1) HIN-101-MJM	1) आधुनिक हिंदी कहानी साहित्य	स्थानीय प्रासंगिकता: प्रेमचंद की "ईदगाह" कहानी स्थानीय संदर्भों के लिए अत्यधिक प्रासंगिक है।	राष्ट्रीय प्रासंगिकता: मोहनदास नैमिशराय 'महाशूद्र' कहानी में राष्ट्रीय प्रासंगिकता है क्योंकि वे देश की जाति व्यवस्था पर प्रकाश डालती हैं।	क्षेत्रीय प्रासंगिकता: प्रेमचंद की "ईदगाह" कहानी मुस्लिम समाज, संस्कृति और परंपराओं के बारे में जानकारी प्रदान करती है।	वैश्विक प्रासंगिकता: प्रेमचंद की "ईदगाह" कहानी तथा मोहनदास नैमिशराय 'महाशूद्र' कहानी में धर्म, जातीय व्यवस्था आदि का चित्रण किया है।	कार्यक्रम के परिणाम (POs): PO2:- प्रभावी नागरिकता और नैतिकता: सहानुभूतिपूर्ण सामाजिक सरोकार और समानता केंद्रित राष्ट्रीय विकास का प्रदर्शन करना, नैतिक और नैतिक मुद्दों के बारे में जागरूक जागरूकता के साथ कार्य करने और पेशेवर नैतिकता और जिम्मेदारी के प्रति प्रतिबद्ध होने की क्षमता। पाठ्यक्रम परिणाम (COs): CO4) छात्रों में राष्ट्र के प्रति प्रेम एवं सामाजिक प्रतिबद्धता की भावना विकसित होगी।
B.A. Hindi	FYBA SEM-I 2) HIN-102-MJM	प्रयोजन मूलक हिंदी	स्थानीय प्रासंगिकता: अंक तथा गणितीय चिन्हों का देवनागरी में लेखन का स्थानीय भाषा	राष्ट्रीय प्रासंगिकता: बैंक, बीमा सूचना एवं प्रौद्योगिकी जनसंचार माध्यम से सरकारी	क्षेत्रीय प्रासंगिकता: बैंक, बीमा सूचना एवं प्रौद्योगिकी जनसंचार माध्यम से सरकारी	वैश्विक प्रासंगिकता: प्रेस, रेडिओ, दूरदर्शन आदि विज्ञापन के माध्यम से भारतीय संघ को	कार्यक्रम के परिणाम (POs): PO3:- सामाजिक क्षमता : व्यक्तिगत और व्यावसायिक जीवन में अच्छे पारस्परिक संबंध





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			को अधिक प्रभावी रूप से प्रयोग करने में मदद करता है।	नीतियों और योजनाओं को जनता तक पहुँचाने में मदद मिलती है।	नीतियों और योजनाओं को क्षेत्रीय जनता तक पहुँचाने में मदद मिलती है।	अंतरराष्ट्रीय स्तर पर प्रभावी रूप से प्रस्तुत किया जा सकता है।	बनाने के लिए स्वयं को स्पष्ट और सटीक रूप से व्यक्त करें। वास्तविक और आभासी मीडिया में खुद को प्रभावी ढंग से अभिव्यक्त करने के लिए भाषाई दक्षताओं का प्रभावी उपयोग करें। समूह सेटिंग में बहुसांस्कृतिक संवेदनशीलता प्रदर्शित करें। पाठ्यक्रम परिणाम (COs): CO1) छात्र प्रयोजनमूलक हिंदी के उपायोजन क्षेत्र से अवगत होंगे।।
B.A. Hindi	FYBA SEM-I 3) HIN-116-OE	हिंदी साहित्य और सिनेमा	स्थानीय प्रासंगिकता: साहित्य, समाज और सिनेमा का स्थानीय संदर्भों, सांस्कृतिक परिवेश, और सामाजिक माहौल के साथ महत्व है।	राष्ट्रीय प्रासंगिकता: भारतीय समाज के सामाजिक, सांस्कृतिक और राजनीतिक संदर्भों को समझने में मदद होती है और राष्ट्रीय एकता, गरिमा, और समृद्धि को बढ़ावा मिलता है।	क्षेत्रीय प्रासंगिकता: लेखक, निर्माता, और कलाकार अपनी रचनाओं में उनके स्थानीय समुदाय, भाषा, संस्कृति, और स्थानीय चरित्रों को प्रतिबिम्बित करते हैं।	वैश्विक प्रासंगिकता: विश्व स्तर पर साहित्य, समाज और सिनेमा के माध्यम से वैश्विक संबंध बढ़ाने में मदद होती है।	कार्यक्रम के परिणाम (POs): PO5:- व्यक्तिगत और व्यावसायिक क्षमता: मजबूत कार्य दृष्टिकोण और पेशेवर कौशल से लैस करें जो उन्हें एक टीम के माहौल में सहयोगात्मक रूप से स्वतंत्र रूप से काम करने में सक्षम बनाएगा। पाठ्यक्रम परिणाम (COs): CO5) छात्र साहित्य और सिनेमा का अंतःसंबंध बता पाएंगे।





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							CO6) छात्रों में सिनेमा निर्माण के लिए आवश्यक कौशल विकसित होंगे।
B.A. Hindi	FYBA SEM-I 4) HIN-117-OE	लघु फिल्म लेखन और निर्माण	स्थानीय प्रासंगिकता: यह लघु फिल्मों के माध्यम से स्थानीय लेखकों, निर्देशकों, और कलाकारों को अपनी समुदाय के मुद्दों और मुख्य विषयों को प्रस्तुत करने का मौका प्रदान करती है।	राष्ट्रीय प्रासंगिकता: भारतीय समाज के सामाजिक, सांस्कृतिक, और राजनीतिक मुद्दों को प्रस्तुत करने में मदद करती है और राष्ट्रीय एकता और सामर्थ्य को मजबूत करती है।	क्षेत्रीय प्रासंगिकता: लघु फिल्में स्थानीय लेखकों, निर्देशकों, और कलाकारों को अपने समुदाय के मुद्दों और महत्वपूर्ण विषयों को सामने लाने का मौका प्रदान करती हैं। इससे स्थानीय लोगों का संघर्ष, समृद्धि, और विकास का चित्रण होता है।	वैश्विक प्रासंगिकता: लघु फिल्में वैश्विक समस्याओं जैसे कि पर्यावरण संरक्षण, मानव अधिकार, सामाजिक न्याय, और आर्थिक विकास को भी उजागर करती हैं। ये फिल्में सामाजिक परिवर्तन को उत्पन्न करने के लिए लोगों को प्रेरित करती हैं।	कार्यक्रम के परिणाम (POs): PO5:- व्यक्तिगत और व्यावसायिक क्षमता: मजबूत कार्य दृष्टिकोण और पेशेवर कौशल से लैस करें जो उन्हें एक टीम के माहौल में सहयोगात्मक रूप से स्वतंत्र रूप से काम करने में सक्षम बनाएगा। पाठ्यक्रम परिणाम (COs): CO3) छात्र लघु फिल्म के विभिन्न विषय से परिचित होंगे।
B.A. Hindi	FYBA SEM-I 5) HIN-121-VSC	निवेदन कौशल : सिद्धांत और स्वरूप	स्थानीय प्रासंगिकता: सामाजिक और सांस्कृतिक आदि स्थानीय क्षेत्रों में निवेदन कौशल मदद करते हैं।	राष्ट्रीय प्रासंगिकता: राजनीतिक अधिवेशन एवं सभाएँ देश की सामाजिक और राजनीतिक उन्मुखता में मदद करते हैं।	क्षेत्रीय प्रासंगिकता: सांस्कृतिक एवं साहित्यिक समारोह में क्षेत्रीय की समस्याओं और आवश्यकताओं को समझने में मदद करता है।	वैश्विक प्रासंगिकता: विभिन्न देशों और संस्कृतियों के साथ संबंधित मंचीय समारोह ग्लोबल मंचों पर सहयोग के लिए अनुकूल होते हैं।	कार्यक्रम के परिणाम (POs): PO6:- स्व-निर्देशित और जीवन भर सीखना: संलग्न रहने की क्षमता हासिल करें, सामाजिक-तकनीकी परिवर्तन के व्यापक संदर्भ में स्वतंत्र और जीवन भर सीखना।





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							पाठ्यक्रम परिणाम (COs): CO4) छात्र विभिन्न क्षेत्रों में निवेदन कौशल की आवश्यकता से अवगत होंगे।
B.A. Hindi	FYBA SEM-I 6) HIN-126-SEC	अनुवाद : सिद्धांत और स्वरूप	स्थानीय प्रासंगिकता: स्थानीय भाषा के अनुवाद को स्थानीय संदर्भों और समूहों के साथ संबंधित करना।	राष्ट्रीय प्रासंगिकता: देश की राजनीतिक, सामाजिक, आर्थिक, और सांस्कृतिक संदर्भों में सही रूप से समझाने अनुवाद मदद करता है।	क्षेत्रीय प्रासंगिकता: स्थानीय भाषा, संस्कृति, और समाज के साथ संबंधित तत्वों को सही तरीके से प्रस्तुत करने में मदद करती है।	वैश्विक प्रासंगिकता: हिंदी-अंग्रेजी अनुवाद की वैश्विक प्रासंगिकता का महत्व और भी बढ़ गया है।	कार्यक्रम के परिणाम (POs): PO5:- व्यक्तिगत और व्यावसायिक क्षमता: मजबूत कार्य दृष्टिकोण और पेशेवर कौशल से लैस करें जो उन्हें एक टीम के माहौल में सहयोगात्मक रूप से स्वतंत्र रूप से काम करने में सक्षम बनाएगा। पाठ्यक्रम परिणाम (COs): CO4) छात्र विभिन्न क्षेत्रों में अनुवाद की आवश्यकता से अवगत होंगे।
B.A. Hindi	FYBA SEM-I 7) HIN-137-IKS	संत कबीर: साहित्यिक परिचय	स्थानीय प्रासंगिकता: भक्तिकाल का सामान्य परिचय	राष्ट्रीय प्रासंगिकता: कबीर के धार्मिक विचार	क्षेत्रीय प्रासंगिकता: कबीर का व्यक्तित्व कृतित्व	वैश्विक प्रासंगिकता: कबीर का मानवतावादी दृष्टिकोण	कार्यक्रम के परिणाम (POs): PO2:- प्रभावी नागरिकता और नैतिकता: सहानुभूतिपूर्ण सामाजिक सरोकार और समानता केंद्रित राष्ट्रीय विकास का प्रदर्शन करना, नैतिक और नैतिक मुद्दों के बारे में जागरूक





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							जागरूकता के साथ कार्य करने और पेशेवर नैतिकता और जिम्मेदारी के प्रति प्रतिबद्ध होने की क्षमता। पाठ्यक्रम परिणाम (COs): CO4 छात्रों में संत कबीर से मानव कल्याण भावना विकसित होगी।
B.A. Hindi	FYBA (SEM-II) HIN - 151- MJM	आधुनिक हिंदी काव्य साहित्य	स्थानीय प्रासंगिकता: निर्मला पुतुल की 'उतनी दूर मत ब्याहना बाबा' (कविता) स्थानीय संदर्भों के लिए अत्यधिक प्रासंगिक हैं।	राष्ट्रीय प्रासंगिकता: माखनलाल चतुर्वेदी की 'पुष्प की अभिलाषा' तथा धूमिल की 'रोटी और संसद' कविता में राष्ट्रीय प्रासंगिकता है क्योंकि वे देश के अतीत पर प्रकाश डालते हैं।	क्षेत्रीय प्रासंगिकता: निर्मला पुतुल की 'उतनी दूर मत ब्याहना बाबा' कविता आदिवासी लोगों की संस्कृति और परंपराओं के बारे में जानकारी प्रदान करती हैं।	वैश्विक प्रासंगिकता: नागार्जुन द्वारा लिखित 'अकाल और उसके बाद' कविता में बंगाल में पड़े हुए अकाल का चित्रण किया है।	कार्यक्रम के परिणाम (POs): PO2:- प्रभावी नागरिकता और नैतिकता: सहानुभूतिपूर्ण सामाजिक सरोकार और समानता केंद्रित राष्ट्रीय विकास का प्रदर्शन करना, नैतिक और नैतिक मुद्दों के बारे में जागरूक जागरूकता के साथ कार्य करने और पेशेवर नैतिकता और जिम्मेदारी के प्रति प्रतिबद्ध होने की क्षमता। पाठ्यक्रम परिणाम (COs): CO1 छात्रों में नैतिक मूल्य, राष्ट्रीय मूल्य, सामाजिक मूल्यों





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							के प्रति आस्था निर्माण होगी।
B.A. Hindi	FYBA (SEM-II) HIN - 152- MJM	रचनात्मक हिंदी लेखन	स्थानीय प्रासंगिकता: पल्लवन, संक्षेपण और निबंध लेखन का स्वरूप, महत्त्व और उदाहरण के द्वारा स्थानीय महत्त्व समझने में मदद होगी।	राष्ट्रीय प्रासंगिकता: पल्लवन, संक्षेपण और निबंध लेखन का स्वरूप, महत्त्व और उदाहरण के द्वारा राष्ट्रीय स्तर पर महत्त्व समझने में मदद होगी।	क्षेत्रीय प्रासंगिकता: पल्लवन, संक्षेपण और निबंध लेखन का स्वरूप, महत्त्व और उदाहरण के द्वारा क्षेत्रीय महत्त्व समझने में मदद होगी।	वैश्विक प्रासंगिकता: पल्लवन, संक्षेपण और निबंध लेखन का स्वरूप, महत्त्व और उदाहरण के द्वारा वैश्विक स्तर पर महत्त्व समझने में मदद होगी।	कार्यक्रम के परिणाम (POs): PO3:- सामाजिक क्षमता : व्यक्तिगत और व्यावसायिक जीवन में अच्छे पारस्परिक संबंध बनाने के लिए स्वयं को स्पष्ट और सटीक रूप से व्यक्त करें। वास्तविक और आभासी मीडिया में खुद को प्रभावी ढंग से अभिव्यक्त करने के लिए भाषाई दक्षताओं का प्रभावी उपयोग करें। समूह सेटिंग में बहुसांस्कृतिक संवेदनशीलता प्रदर्शित करें। पाठ्यक्रम परिणाम (COs): CO7) पल्लवन, संक्षेपण, निबंध लेखन क्षेत्र में रोजगार प्राप्त कर सकेंगे।
B.A. Hindi	FYBA (SEM-II) HIN - 161- MN	साहित्यधारा	स्थानीय प्रासंगिकता: प्रेमचंद की कहानी 'पूस की रात' स्थानीय संदर्भों के लिए	राष्ट्रीय प्रासंगिकता: नागार्जुन द्वारा लिखित 'अकाल और उसके बाद' कविता में बंगाल में पड़े	क्षेत्रीय प्रासंगिकता: कमलेश्वर द्वारा लिखित 'दिल्ली में एक मौत' कहानी में दिल्ली शहर	वैश्विक प्रासंगिकता: नागार्जुन द्वारा लिखित 'अकाल और उसके बाद' कविता में बंगाल में पड़े	कार्यक्रम के परिणाम (POs): PO2:- प्रभावी नागरिकता और नैतिकता: सहानुभूतिपूर्ण सामाजिक सरोकार और समानता





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			अत्यधिक प्रासंगिक हैं।	हुए अकाल का चित्रण किया है।	में रहने वाले लोगों की मानसिकता का चित्रण किया है।	हुए अकाल का चित्रण किया है।	केंद्रित राष्ट्रीय विकास का प्रदर्शन करना, नैतिक और नैतिक मुद्दों के बारे में जागरूक जागरूकता के साथ कार्य करने और पेशेवर नैतिकता और जिम्मेदारी के प्रति प्रतिबद्ध होने की क्षमता। पाठ्यक्रम परिणाम (COs): CO7) छात्रों में नैतिक एवं सामाजिक मूल्य विकसित होंगे।
B.A. Hindi	FYBA (SEM-II) HIN - 166-OE	सोशल मिडिया और हिंदी	स्थानीय प्रासंगिकता: स्थानीय संदर्भों में सोशल मिडिया का महत्त्व समझने में मदद होगी।	राष्ट्रीय प्रासंगिकता: राष्ट्रीय स्तर पर सोशल मिडिया की उपयोगिता और दुष्परिणाम समझने में मदद होगी।	क्षेत्रीय प्रासंगिकता: सोशल मिडिया में क्षेत्रीय भाषा का प्रयोग बढ़ने में मदद होगी।	वैश्विक प्रासंगिकता: वैश्विक स्तर पर सोशल मिडिया के बढ़ते हुए प्रयोग को समझने में मदद होगी।	कार्यक्रम के परिणाम (POs): PO6:- स्व-निर्देशित और जीवन भर सीखना: संलग्न रहने की क्षमता हासिल करें, सामाजिक-तकनीकी परिवर्तन के व्यापक संदर्भ में स्वतंत्र और जीवन भर सीखना। पाठ्यक्रम परिणाम (COs): CO4) छात्र सोशल मिडिया से अनेक कौशल्य जिसमें - लेखन, निवेदक, अभिनय, रंगमंच, ध्वनियोजना, संगीत योजना से परिचित होंगे।





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B.A. Hindi	FYBA (SEM-II) HIN - 167- OE	पत्रलेखन	स्थानीय प्रासंगिकता: स्थानीय संदर्भों में पत्रलेखन की आवश्यकता, महत्व समझने में मदद होगी।	राष्ट्रीय प्रासंगिकता: राष्ट्रीय स्तर पर सरकारी पत्रलेखन का महत्व समझेंगे।	क्षेत्रीय प्रासंगिकता: क्षेत्रीय भाषा में व्यावसायिक पत्रलेखन का महत्व समझेंगे।	वैश्विक प्रासंगिकता: वैश्विक स्तर पर पत्रलेखन की आवश्यकता, महत्व को समझने में मदद होगी।	कार्यक्रम के परिणाम (POs): PO3:- सामाजिक क्षमता : व्यक्तिगत और व्यावसायिक जीवन में अच्छे पारस्परिक संबंध बनाने के लिए स्वयं को स्पष्ट और सटीक रूप से व्यक्त करें। वास्तविक और आभासी मीडिया में खुद को प्रभावी ढंग से अभिव्यक्त करने के लिए भाषाई दक्षताओं का प्रभावी उपयोग करें। समूह सेटिंग में बहुसांस्कृतिक संवेदनशीलता प्रदर्शित करें। पाठ्यक्रम परिणाम (COs): CO7) छात्रों में व्यावसायिक और सरकारी पत्रलेखन लिखने की क्षमता विकसित होगी
B.A. Hindi	FYBA (SEM-II) HIN - 171- VSC	निवेदन कौशल : प्रत्यक्ष व्यवहार	स्थानीय प्रासंगिकता: सामाजिक और सांस्कृतिक आदि स्थानीय क्षेत्रों में निवेदन कौशल मदद करते हैं।	राष्ट्रीय प्रासंगिकता: राजनीतिक अधिवेशन एवं सभाएँ देश की सामाजिक और राजनीतिक उन्मुखता में मदद करते हैं।	क्षेत्रीय प्रासंगिकता: सांस्कृतिक एवं साहित्यिक समारोह में क्षेत्रीय की समस्याओं और आवश्यकता ओं को	वैश्विक प्रासंगिकता: विभिन्न देशों और संस्कृतियों के साथ संबंधित मंचीय समारोह ग्लोबल मंचों पर सहयोग के लिए अनुकूल होते हैं।	कार्यक्रम के परिणाम (POs): PO6:- स्व- निर्देशित और जीवन भर सीखना: संलग्न रहने की क्षमता हासिल करें, सामाजिक- तकनीकी परिवर्तन के व्यापक संदर्भ में





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					समझने में मदद करता है।		स्वतंत्र और जीवन भर सीखना। पाठ्यक्रम परिणाम (COs): CO4) छात्र विभिन्न क्षेत्रों में निवेदन कौशल की आवश्यकता से अवगत होंगे।
B.A. Hindi	FYBA (SEM-II) HIN - 176-SEC	अनुवाद : प्रत्यक्ष व्यवहार	स्थानीय प्रासंगिकता: स्थानीय भाषा के अनुवाद को स्थानीय संदर्भों और समूहों के साथ संबंधित करना।	राष्ट्रीय प्रासंगिकता: देश की राजनीतिक, सामाजिक, आर्थिक, और सांस्कृतिक संदर्भों में सही रूप से समझाने अनुवाद मदद करता है।	क्षेत्रीय प्रासंगिकता: स्थानीय भाषा, संस्कृति, और समाज के साथ संबंधित तत्वों को सही तरीके से प्रस्तुत करने में मदद करती है।	वैश्विक प्रासंगिकता: हिंदी-अंग्रेजी अनुवाद की वैश्विक प्रासंगिकता का महत्व और भी बढ़ गया है।	कार्यक्रम के परिणाम (POs): PO5:- व्यक्तिगत और व्यावसायिक क्षमता: मजबूत कार्य दृष्टिकोण और पेशेवर कौशल से लैस करें जो उन्हें एक टीम के माहौल में सहयोगात्मक रूप से स्वतंत्र रूप से काम करने में सक्षम बनाएगा। पाठ्यक्रम परिणाम (COs): CO4) छात्र विभिन्न क्षेत्रों में अनुवाद की आवश्यकता से अवगत होंगे।
B.A. Hindi	SYBA (SEM-I) UAH N 231	सामान्य हिंदी	दूसरे (कहानी) - - कमलेश्वर नाच (कविता) -- अज्ञेया शब्द युग्म, संक्षेपण, साक्षात्कार।	सलाम (कहानी) - ओमप्रकाश वाल्मिकी, देश कागज पर बना नक्शा नहीं होता (कविता)- सर्वेश्वरदयाल सक्सेना।	प्रेम की बिरादरी (कहानी) - - हरिशंकर परसाई कितनी रोटी (कविता) - अशोक चक्रधर।	सलाम (कहानी) - ओमप्रकाश वाल्मिकी, देश कागज पर बना नक्शा नहीं होता (कविता)- सर्वेश्वरदयाल सक्सेना। साक्षात्कार।	कार्यक्रम के परिणाम (POs): - PO3:- सामाजिक क्षमता: व्यक्तिगत और व्यावसायिक जीवन में अच्छे पारस्परिक संबंध बनाने के लिए स्वयं को स्पष्ट और सटीक रूप से





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				शब्द युग्म, संक्षेपण, साक्षात्कार।	शब्द युग्म, संक्षेपण, साक्षात्कार।		व्यक्त करें। वास्तविक और आभासी मीडिया में खुद को प्रभावी ढंग से अभिव्यक्त करने के लिए भाषाई दक्षताओं का प्रभावी उपयोग करें। समूह सेटिंग में बहुसांस्कृतिक संवेदनशीलता प्रदर्शित करें। पाठ्यक्रम परिणाम (COs): - CO1) हिंदी के गद्य एवं पद्य के प्रतिनिधि रचनाकारों का परिचय देना। CO2) पारिभाषिक शब्द, विज्ञापन, भेंटवार्ता/साक्षात्का र, रिपोर्ट लेखन आदि हिंदी भाषा के व्यावहारिक क्षेत्रों से परिचित कराना।
B.A. Hindi	SYBA (SEM-I) UAH N 232	काव्यशास्त्र	काव्य की परिभाषा, काव्य के तत्व, काव्य हेतु तथा काव्य के प्रयोजन	काव्य की परिभाषा, काव्य के तत्व, काव्य हेतु तथा काव्य के प्रयोजन	काव्य की परिभाषा, काव्य के तत्व, काव्य हेतु तथा काव्य के प्रयोजन	काव्य की परिभाषा, काव्य के तत्व, काव्य हेतु तथा काव्य के प्रयोजन	कार्यक्रम के परिणाम (POs): - PO8 :- आलोचनात्मक सोच और समस्या समाधान: आलोचनात्मक सोच के कौशल का प्रदर्शन करें और अपने सामाजिक परिवेश में स्थित समस्याओं से





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							निपटने, व्यवहार्य समाधान प्रस्तावित करने और इसके कार्यान्वयन में मदद करने के लिए उच्च क्रम के संज्ञानात्मक कौशल का उपयोग करें। पाठ्यक्रम परिणाम (COs): - CO1) काव्य, साहित्य की परिभाषाओं द्वारा काव्य के स्वरूप के साथ काव्य हेतु तथा काव्य के प्रयोजनों का ज्ञान कराना।
B.A. Hindi	SYBA (SEM-I) UAH N 233	उपन्यास तथा मध्ययुगीन काव्य	एक पत्नी के नोट्स - ममता कालिया (उपन्यास)	एक पत्नी के नोट्स - ममता कालिया (उपन्यास)	कबीर के दोहे सूरदास के पद रहीम के दोहे बिहारी के दोहे	एक पत्नी के नोट्स - ममता कालिया (उपन्यास)	कार्यक्रम के परिणाम (POs): - PO2:- प्रभावी नागरिकता और नैतिकता: सहानुभूतिपूर्ण सामाजिक सरोकार और समानता केंद्रित राष्ट्रीय विकास का प्रदर्शन करना, नैतिक और नैतिक मुद्दों के बारे में जागरूक जागरूकता के साथ कार्य करने और पेशेवर नैतिकता और जिम्मेदारी के प्रति प्रतिबद्ध होने की क्षमता। पाठ्यक्रम परिणाम (COs): -





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							CO1) मध्ययुगीन संत एवं भक्तों के काव्य से छात्रों को परिचित कराना। CO2) हिंदी उपन्यास एवं नाटक के आस्वादन की क्षमता विकसित करना।
B.A. Hindi	SYBA (SEM-II) UAH N 241	सामान्य हिंदी	खेल (कहानी) - जैनेंद्र कुमार गाँव के लड़के (कविता)- सुमित्रानंदन पंता विज्ञापन लेखन, वृत्तांत लेखन	छावनी में बेघर (कहानी) - अल्पना मिश्र गाँव के लड़के (कविता)- सुमित्रानंदन पंता विज्ञापन लेखन, वृत्तांत लेखन	उसने कहा था (कहानी)- चंद्रधर शर्मा गुलेरी गाँव के लड़के (कविता)- सुमित्रानंदन पंता विज्ञापन लेखन, वृत्तांत लेखन	उसने कहा था (कहानी)- चंद्रधर शर्मा गुलेरी गाँव के लड़के (कविता)- सुमित्रानंदन पंता विज्ञापन लेखन, वृत्तांत लेखन	कार्यक्रम के परिणाम (POs): - PO3:- सामाजिक क्षमता: व्यक्तिगत और व्यावसायिक जीवन में अच्छे पारस्परिक संबंध बनाने के लिए स्वयं को स्पष्ट और सटीक रूप से व्यक्त करें। वास्तविक और आभासी मीडिया में खुद को प्रभावी ढंग से अभिव्यक्त करने के लिए भाषाई दक्षताओं का प्रभावी उपयोग करें। समूह सेटिंग में बहुसांस्कृतिक संवेदनशीलता प्रदर्शित करें। पाठ्यक्रम परिणाम (COs): - CO1) हिंदी के गद्य एवं पद्य के प्रतिनिधि रचनाकारों का परिचय देना।





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							CO2) पारिभाषिक शब्द, विज्ञापन, भेंटवार्ता/साक्षात्का र, रिपोर्ट लेखन आदि हिंदी भाषा के व्यावहारिक क्षेत्रों से परिचित कराना।
B.A. Hindi	SYBA (SEM- II) UAH N 242	काव्यशास्त्र	काव्य के भेद, पद्य के भेद: प्रबंधकाव्य और मुक्तक काव्य, प्रबंधकाव्य के भेद- महाकाव्य, खंडकाव्य, मुक्तक काव्य, गीतिकाव्य।	गद्य के भेद: उपन्यास, कहानी, नाटक, एकांकी, निबंध। (इन विधाओं का केवल तात्विक परिचय)	गद्य के भेद: उपन्यास, कहानी, नाटक, एकांकी, निबंध। (इन विधाओं का केवल तात्विक परिचय)	गद्य के भेद: उपन्यास, कहानी, नाटक, एकांकी, निबंध। (इन विधाओं का केवल तात्विक परिचय)	कार्यक्रम के परिणाम (POs): - PO8 :- आलोचनात्मक सोच और समस्या समाधान: आलोचनात्मक सोच के कौशल का प्रदर्शन करें और अपने सामाजिक परिवेश में स्थित समस्याओं से निपटने, व्यवहार्य समाधान प्रस्तावित करने और इसके कार्यान्वयन में मदद करने के लिए उच्च क्रम के संज्ञानात्मक कौशल का उपयोग करें। पाठ्यक्रम परिणाम (COs): - CO1) काव्य, साहित्य की परिभाषाओं द्वारा काव्य के स्वरूप के साथ काव्य हेतु तथा काव्य के प्रयोजनों का ज्ञान कराना।





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B.A. Hindi	SYBA (SEM-II) UAH N 243	नाटक तथा मध्ययुगीन काव्य	युगे युगे क्रांती - विष्णु प्रभाकर (नाटक)	युगे युगे क्रांती - विष्णु प्रभाकर (नाटक)	रहीम के दोहे बिहारी के दोहे	युगे युगे क्रांती - विष्णु प्रभाकर (नाटक)	कार्यक्रम के परिणाम (POs): - PO2:- प्रभावी नागरिकता और नैतिकता: सहानुभूतिपूर्ण सामाजिक सरोकार और समानता केंद्रित राष्ट्रीय विकास का प्रदर्शन करना, नैतिक और नैतिक मुद्दों के बारे में जागरूक जागरूकता के साथ कार्य करने और पेशेवर नैतिकता और जिम्मेदारी के प्रति प्रतिबद्ध होने की क्षमता। पाठ्यक्रम परिणाम (COs): - CO1) मध्ययुगीन संत एवं भक्तों के काव्य से छात्रों को परिचित कराना। CO2) हिंदी उपन्यास एवं नाटक के आस्वादन की क्षमता विकसित करना।
B.A. Hindi	TYBA 1) HIN 3501/ 3601	सामान्य हिंदी (G-3)	सृजन संदर्भ और मैं (आत्मकथांश) साए में धूप (गजल) - दुष्यंतकुमार	सृजन संदर्भ और मैं (आत्मकथांश) साए में धूप (गजल) - दुष्यंतकुमार	सृजन संदर्भ और मैं (आत्मकथांश) साए में धूप (गजल) - दुष्यंतकुमार	सृजन संदर्भ और मैं (आत्मकथांश) साए में धूप (गजल) - दुष्यंतकुमार	कार्यक्रम के परिणाम (POs): - PO6 :- स्व- निर्देशित और जीवन भर सीखना: सामाजिक- तकनीकी परिवर्तन





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							के व्यापक संदर्भ में स्वतंत्र और जीवन भर सीखने में संलग्न होने की क्षमता हासिल करना। पाठ्यक्रम परिणाम (COs): - CO1. छात्र काव्य के माध्यम से मानवीय मूल्यों को आत्मसात करेंगे।
B.A. Hindi	TYBA 2) HIN 3502/ 3602	हिंदी साहित्य का इतिहास (S-3)	भक्तिकाल	भक्तिकाल आधुनिक काल	भक्तिकाल आधुनिक काल	भक्तिकाल आधुनिक काल	कार्यक्रम के परिणाम (POs): - PO6 :- स्व-निर्देशित और जीवन भर सीखना: सामाजिक-तकनीकी परिवर्तन के व्यापक संदर्भ में स्वतंत्र और जीवन भर सीखने में संलग्न होने की क्षमता हासिल करना। पाठ्यक्रम परिणाम (COs): - CO1) हिंदी साहित्य के इतिहास के कालखंडों के नामकरण एवं पृष्ठभूमि का परिचय देना।
B.A. Hindi	TYBA 3) HIN 3503/ 3603	भाषा विज्ञान (S-4)	भाषा की परिभाषाएं, स्वरूप,	भाषा की परिभाषाएं, स्वरूप, भाषा की विशेषताएं,	भाषा की परिभाषाएं, स्वरूप, भाषा की विशेषताएं,	भाषा की परिभाषाएं, स्वरूप, हिंदी की विविध बोलियाँ	कार्यक्रम के परिणाम (POs): - PO4 :- अनुशासनात्मक





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			हिंदी की विविध बोलियाँ	भाषा के भेद	भाषा के भेद		ज्ञान : पारंपरिक अनुशासन ज्ञान और आधुनिक दुनिया में इसके अनुप्रयोगों का मिश्रण प्रदर्शित करें। चुने गए कार्यक्रम से उत्पन्न मजबूत सैद्धांतिक और व्यावहारिक समझ को क्रियान्वित करें। पाठ्यक्रम परिणाम (COs): - CO1 छात्रों में भाषा के वैज्ञानिक अध्ययन की दृष्टि निर्माण करना।
M.A. Hindi	MA-I SEM-I HIN-501-MJM	प्राचीन तथा मध्ययुगीन काव्य (अमीर खुसरो और रहीम)	अमीर खुसरो की पहेलियों / रहीम के दोहे	अमीर खुसरो का खड़ीबोली हिंदी के विकास में योगदान	अमीर खुसरो के काव्य में क्षेत्रीयता, रहीम का काव्य	अमीर खुसरो का काव्य, रहीम के काव्य में नीति	कार्यक्रम के परिणाम (POs): - PO1:- अनुसंधान-संबंधित कौशल: चुने हुए क्षेत्र और संबद्ध विषयों में अनुसंधान और उच्च शैक्षणिक उपलब्धियों के लिए अवसर की तलाश है और अनुसंधान नैतिकता, बौद्धिक संपदा अधिकारों और साहित्यिक चोरी के मुद्दों के बारे में जागरूक है। प्रासंगिक/उचित प्रश्न पूछने के लिए पूछताछ की भावना और क्षमता





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							प्रदर्शित करें, किसी अनुसंधान परियोजना के परिणामों की योजना बनाने, निष्पादित करने और रिपोर्ट करने की क्षमता, चाहे वह क्षेत्र में हो या अन्यथा पर्यवेक्षण के तहत। पाठ्यक्रम परिणाम (COs): - CO1) प्राचीन तथा मध्ययुग के प्रतिनिधि कवियों के योगदान के विविध आयामों से छात्रों को परिचित करना। CO2) मध्ययुगीन संत एवं भक्तों के काव्य से छात्रों को परिचित कराना।
M.A. Hindi	MA-I SEM-I HIN - 502- MJM	आधुनिक हिंदी कथा साहित्य (उपन्यास और कहानी)	हिंदी की श्रेष्ठ कहानियाँ – सिक्का बदल गया - कृष्णा सोबती उपन्यास - 'अकाल में उत्सव': पंकज सुबीर	हिंदी की श्रेष्ठ कहानियाँ – सिक्का बदल गया - कृष्णा सोबती उपन्यास - 'अकाल में उत्सव': पंकज सुबीर	हिंदी की श्रेष्ठ कहानियाँ – सिक्का बदल गया - कृष्णा सोबती उपन्यास - 'अकाल में उत्सव': पंकज सुबीर	हिंदी की श्रेष्ठ कहानियाँ – सिक्का बदल गया - कृष्णा सोबती उपन्यास - 'अकाल में उत्सव': पंकज सुबीर	कार्यक्रम के परिणाम (POs): - PO3:- सामाजिक क्षमता: व्यक्तिगत और व्यावसायिक जीवन में अच्छे पारस्परिक संबंध बनाने के लिए स्वयं को स्पष्ट और सटीक रूप से व्यक्त करें। वास्तविक और आभासी मीडिया में खुद को प्रभावी ढंग से अभिव्यक्त





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							करने के लिए भाषाई दक्षताओं का प्रभावी उपयोग करें। समूह सेटिंग में बहुसांस्कृतिक संवेदनशीलता प्रदर्शित करें। पाठ्यक्रम परिणाम (COs): - CO1) गद्य की प्रमुख विधाओं के तात्त्विक स्वरूप का परिचय देना। CO2) रचना के आस्वादन एवं समीक्षण की क्षमता विकसित करना।
M.A. Hindi	MA-I SEM-I HIN - 503-MJM	भारतीय साहित्यशास्त्र	रस सिद्धांत, अलंकार सिद्धांत, रीति सिद्धांत, ध्वनि सिद्धांत	रस सिद्धांत, अलंकार सिद्धांत, रीति सिद्धांत, ध्वनि सिद्धांत	रस सिद्धांत, अलंकार सिद्धांत, रीति सिद्धांत, ध्वनि सिद्धांत	रस सिद्धांत, अलंकार सिद्धांत, रीति सिद्धांत, ध्वनि सिद्धांत	कार्यक्रम के परिणाम (POs): - PO8 :- आलोचनात्मक सोच और समस्या समाधान: आलोचनात्मक सोच के कौशल का प्रदर्शन करें और अपने सामाजिक परिवेश में स्थित समस्याओं से निपटने, व्यवहार्य समाधान प्रस्तावित करने और इसके कार्यान्वयन में मदद करने के लिए उच्च क्रम के संज्ञानात्मक कौशल का उपयोग करें। पाठ्यक्रम परिणाम (COs): -





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							CO1) भारतीय साहित्यशास्त्र के सिद्धांतों का ज्ञान कराना। CO2) साहित्यशास्त्रीय अध्ययन के माध्यम से छात्रों में समीक्षात्मक दृष्टि विकसित करना।
M.A. Hindi	MA-I SEM-I HIN - 504- MJM	अनुवाद : स्वरूप एवं व्यवहार	स्थानीय प्रासंगिकता: स्थानीय भाषा के अनुवाद को स्थानीय संदर्भों और समूहों के साथ संबंधित करना।	राष्ट्रीय प्रासंगिकता: देश की राजनीतिक, सामाजिक, आर्थिक, और सांस्कृतिक संदर्भों में सही रूप से समझाने अनुवाद मदद करता है।	क्षेत्रीय प्रासंगिकता: स्थानीय भाषा, संस्कृति, और समाज के साथ संबंधित तत्वों को सही तरीके से प्रस्तुत करने में मदद करती है।	वैश्विक प्रासंगिकता: हिंदी-अंग्रेजी अनुवाद की वैश्विक प्रासंगिकता का महत्व और भी बढ़ गया है।	कार्यक्रम के परिणाम (POs): PO5:- व्यक्तिगत और व्यावसायिक क्षमता: मजबूत कार्य दृष्टिकोण और पेशेवर कौशल से लैस करें जो उन्हें एक टीम के माहौल में सहयोगात्मक रूप से स्वतंत्र रूप से काम करने में सक्षम बनाएगा। पाठ्यक्रम परिणाम (COs): CO4) छात्र विभिन्न क्षेत्रों में अनुवाद की आवश्यकता से अवगत होंगे।
M.A. Hindi	MA-I SEM-I HIN - 511- MJE	विशेष साहित्यकार — कबीर	कबीर के दोहे तथा पद	कबीर के दोहे तथा पद	कबीर के दोहे तथा पद	कबीर के दोहे तथा पद	कार्यक्रम के परिणाम (POs): - PO2:- प्रभावी नागरिकता और नैतिकता: सहानुभूतिपूर्ण सामाजिक सरोकार और समानता केंद्रित राष्ट्रीय





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							विकास का प्रदर्शन करना, नैतिक और नैतिक मुद्दों के बारे में जागरूक जागरूकता के साथ कार्य करने और पेशेवर नैतिकता और जिम्मेदारी के प्रति प्रतिबद्ध होने की क्षमता। पाठ्यक्रम परिणाम (COs): - CO1) कबीर के काव्य की प्रासंगिकता से अवगत कराना। CO2) हिंदी उपन्यासों में अभिव्यक्त मानवी जीवन का परिचय देना।
M.A. Hindi	MA-I SEM-I HIN - 521- RM	अनुसंधान प्रविधि	अनुसंधान स्वरूप, महत्व, व्याप्ति। अनुसंधान के मूल तत्व, अनुसंधान – उद्देश्य, अनुसंधान के प्रकार	अनुसंधान स्वरूप, महत्व, व्याप्ति। अनुसंधान के मूल तत्व, अनुसंधान – उद्देश्य, अनुसंधान के प्रकार	अनुसंधान स्वरूप, महत्व, व्याप्ति। अनुसंधान के मूल तत्व, अनुसंधान – उद्देश्य, अनुसंधान के प्रकार	अनुसंधान की प्रविधियाँ, हिंदी अनुसंधान से संबंधित विषयों की भूमिका, साहित्यिक अनुसंधान – समस्याएँ, शोध प्रविधि में कंप्यूटर, इंटरनेट की उपयोगिता	कार्यक्रम के परिणाम (POs): - PO1:- अनुसंधान-संबंधित कौशल: चुने हुए क्षेत्र और संबद्ध विषयों में अनुसंधान और उच्च शैक्षणिक उपलब्धियों के लिए अवसर की तलाश है और अनुसंधान नैतिकता, बौद्धिक संपदा अधिकारों और साहित्यिक चोरी के मुद्दों के बारे में जागरूक है।





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							प्रासंगिक/उचित प्रश्न पूछने के लिए पूछताछ की भावना और क्षमता प्रदर्शित करें, किसी अनुसंधान परियोजना के परिणामों की योजना बनाने, निष्पादित करने और रिपोर्ट करने की क्षमता, चाहे वह क्षेत्र में हो या अन्यथा पर्यवेक्षण के तहत। पाठ्यक्रम परिणाम (COs): - CO1) अनुसंधान से छात्रों में ज्ञानवृद्धि बढ़ेगी।
M.A. Hindi	MA-I SEM-II HIN-551- MJM	मध्ययुगीन काव्य	बिहारी के दोहे, भूषण का काव्य	भूषण के काव्य में राष्ट्रीय चेतना	जायसी का पद्यावत महाकाव्य	जायसी का पद्यावत महाकाव्य	कार्यक्रम के परिणाम (POs): - PO8 :- आलोचनात्मक सोच और समस्या समाधान: आलोचनात्मक सोच के कौशल का प्रदर्शन करें और अपने सामाजिक परिवेश में स्थित समस्याओं से निपटने, व्यवहार्य समाधान प्रस्तावित करने और इसके कार्यान्वयन में मदद करने के लिए उच्च क्रम के संज्ञानात्मक कौशल का उपयोग करें।





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							पाठ्यक्रम परिणाम (COs): - CO1) मध्ययुग के प्रतिनिधि कवियों के योगदान के विविध आयामों से छात्रों को परिचित करना। CO2) मध्ययुगीन संत एवं भक्तों के काव्य से छात्रों को परिचित कराना।
M.A. Hindi	MA-I SEM-II HIN -552- MJM	हिंदी नाटक और रंगमंच	नाटक : 'फन्दी' - शंकर शेष आठवा सर्ग : सुरेन्द्र वर्मा	नाटक : 'फन्दी' - शंकर शेष आठवा सर्ग : सुरेन्द्र वर्मा	नाटक : 'फन्दी' - शंकर शेष आठवा सर्ग : सुरेन्द्र वर्मा	नाटक : 'फन्दी' - शंकर शेष आठवा सर्ग : सुरेन्द्र वर्मा	कार्यक्रम के परिणाम (POs): - PO3:- सामाजिक क्षमता: व्यक्तिगत और व्यावसायिक जीवन में अच्छे पारस्परिक संबंध बनाने के लिए स्वयं को स्पष्ट और सटीक रूप से व्यक्त करें। वास्तविक और आभासी मीडिया में खुद को प्रभावी ढंग से अभिव्यक्त करने के लिए भाषाई दक्षताओं का प्रभावी उपयोग करें। समूह सेटिंग में बहुसांस्कृतिक संवेदनशीलता प्रदर्शित करें। पाठ्यक्रम परिणाम (COs): - CO2) रचना के आस्वादन एवं





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							समीक्षण की क्षमता विकसित करना। CO5) छात्रों में नाट्यकला की रूचि निर्माण करके नाट्यकार का विकास होगा
M.A. Hindi	MA-I SEM-II HIN -553- MJM	पाश्चात्य साहित्यशास्त्र	अनुकरण सिद्धांत विरेचन सिद्धांत उदात्त सिद्धांत आई. ए. रिचर्ड्स का मनोवैज्ञानिक मूल्यवाद और संप्रेषण सिद्धांत	अनुकरण सिद्धांत विरेचन सिद्धांत उदात्त सिद्धांत आई. ए. रिचर्ड्स का मनोवैज्ञानिक मूल्यवाद और संप्रेषण सिद्धांत	अनुकरण सिद्धांत विरेचन सिद्धांत उदात्त सिद्धांत आई. ए. रिचर्ड्स का मनोवैज्ञानिक मूल्यवाद और संप्रेषण सिद्धांत	अनुकरण सिद्धांत विरेचन सिद्धांत उदात्त सिद्धांत आई. ए. रिचर्ड्स का मनोवैज्ञानिक मूल्यवाद और संप्रेषण सिद्धांत	कार्यक्रम के परिणाम (POs): - PO8 :- आलोचनात्मक सोच और समस्या समाधान: आलोचनात्मक सोच के कौशल का प्रदर्शन करें और अपने सामाजिक परिवेश में स्थित समस्याओं से निपटने, व्यवहार्य समाधान प्रस्तावित करने और इसके कार्यान्वयन में मदद करने के लिए उच्च क्रम के संज्ञानात्मक कौशल का उपयोग करें। पाठ्यक्रम परिणाम (COs): - CO1) पाश्चात्य साहित्यशास्त्र के सिद्धांतों का ज्ञान कराना। CO2) साहित्यशास्त्रीय अध्ययन के माध्यम से छात्रों में समीक्षात्मक दृष्टि विकसित करना।





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M.A. Hindi	MA-I SEM-II HIN -554- MJM	साहित्य और पटकथा लेखन	पटकथा : अर्थ परिभाषा और स्वरूपा साहित्य और फिल्मांतरण	साहित्य और फिल्मांतरण पटकथा लेखन के प्रकार	पटकथा की विशेषताएं और गुण, पटकथा लेखन के अनिवार्य तत्व	फीचर फिल्म की पटकथा, वृत्तचित्र की पटकथा, धारावाहिक की पटकथा, उद्घोषक की पटकथा	कार्यक्रम के परिणाम (POs): PO5:- व्यक्तिगत और व्यावसायिक क्षमता: मजबूत कार्य दृष्टिकोण और पेशेवर कौशल से लैस करें जो उन्हें एक टीम के माहौल में सहयोगात्मक रूप से स्वतंत्र रूप से काम करने में सक्षम बनाएगा। पाठ्यक्रम परिणाम (COs): CO2) छात्र पटकथा लेखन कौशल से परिचित होंगे
M.A. Hindi	MA-I SEM-II HIN -561- MJE	विशेष विधा : हिंदी उपन्यास	उपन्यास - मुक्तिपर्व - मोहनदास नैमिशराय फाँस - संजीव त्यागपत्र - जैनेंद्रकुमार	उपन्यास - मुक्तिपर्व - मोहनदास नैमिशराय फाँस - संजीव त्यागपत्र - जैनेंद्रकुमार	उपन्यास - मुक्तिपर्व - मोहनदास नैमिशराय फाँस - संजीव त्यागपत्र - जैनेंद्रकुमार	उपन्यास - मुक्तिपर्व - मोहनदास नैमिशराय फाँस - संजीव त्यागपत्र - जैनेंद्रकुमार	कार्यक्रम के परिणाम (POs): - PO2:- प्रभावी नागरिकता और नैतिकता: सहानुभूतिपूर्ण सामाजिक सरोकार और समानता केंद्रित राष्ट्रीय विकास का प्रदर्शन करना, नैतिक और नैतिक मुद्दों के बारे में जागरूक जागरूकता के साथ कार्य करने और पेशेवर नैतिकता और जिम्मेदारी के प्रति प्रतिबद्ध होने की क्षमता।





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M.A. Hindi	MA-II SEM-I 1) PAHN 231	आधुनिक काव्य 1	कामायनी – जयशंकर प्रसाद (महाकाव्य) नई कविताएँ – कूडा बीनते बच्चे - अनामिका	कामायनी – जयशंकर प्रसाद (महाकाव्य) नई कविताएँ – रोटी और संसद - धूमिल	कामायनी – जयशंकर प्रसाद (महाकाव्य) नई कविताएँ – कूडा बीनते बच्चे – अनामिका	कामायनी – जयशंकर प्रसाद (महाकाव्य) नई कविताएँ – रोटी और संसद - धूमिल	कार्यक्रम के परिणाम (POs): - PO8 :- आलोचनात्मक सोच और समस्या समाधान: आलोचनात्मक सोच के कौशल का प्रदर्शन करें और अपने सामाजिक परिवेश में स्थित समस्याओं से निपटने, व्यवहार्य समाधान प्रस्तावित करने और इसके कार्यान्वयन में मदद करने के लिए उच्च क्रम के संज्ञानात्मक कौशल का उपयोग करें। पाठ्यक्रम परिणाम (COs): - CO1. छात्र आधुनिक हिंदी काव्य की प्रवृत्तियों से परिचय होंगे।
M.A. Hindi	MA-II SEM-I 1) PAHN 232	भाषा विज्ञान	भाषा की परिभाषा, स्वरूप, हिंदी भाषा का उद्भव एवं विकास हिंदी का	स्वन विज्ञान वाक्य विज्ञान अर्थ विज्ञान,	हिंदी बोलियों का वर्गीकरण तथा क्षेत्र- हिंदी का व्याकरणिक स्वरूप और विकास	भाषा की परिभाषा, स्वरूप, हिंदी भाषा का उद्भव एवं विकास हिंदी का	कार्यक्रम के परिणाम (POs): - PO4 :- अनुशासनात्मक ज्ञान : पारंपरिक अनुशासन ज्ञान





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			व्याकरणिक स्वरूप और विकास			व्याकरणिक स्वरूप और विकास	और आधुनिक दुनिया में इसके अनुप्रयोगों का मिश्रण प्रदर्शित करें। चुने गए कार्यक्रम से उत्पन्न मजबूत सैद्धांतिक और व्यावहारिक समझ को क्रियान्वित करें। पाठ्यक्रम परिणाम (COs): - CO1 छात्रों में भाषा के वैज्ञानिक अध्ययन की दृष्टि निर्माण करना।
M.A. Hindi	MA-II SEM-I 1) PAHN 233	हिंदी साहित्य का इतिहास	आदिकाल भक्तिकाल रीतिकाल	आदिकाल भक्तिकाल रीतिकाल	आदिकाल भक्तिकाल रीतिकाल	आदिकाल भक्तिकाल रीतिकाल	कार्यक्रम के परिणाम (POs): - PO6 :- स्व- निर्देशित और जीवन भर सीखना: सामाजिक- तकनीकी परिवर्तन के व्यापक संदर्भ में स्वतंत्र और जीवन भर सीखने में संलग्न होने की क्षमता हासिल करना। पाठ्यक्रम परिणाम (COs): - CO1 हिंदी साहित्य के इतिहास के कालखंडों के नामकरण एवं पृष्ठभूमि का परिचय देना।





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M.A. Hindi	MA-II SEM-I 1) PAHN 234	वैकल्पिक: आधुनिक हिंदी आलोचना	आलोचना- स्वरूप, उद्देश्य,	आलोचना और अनुसंधान, आलोचक के गुण, हिंदी आलोचना का विकास क्रम,	हिंदी आलोचना का विकास क्रम,	हिंदी आलोचना का विकास क्रम,	कार्यक्रम के परिणाम (POs): - PO3:- सामाजिक क्षमता: व्यक्तिगत और व्यावसायिक जीवन में अच्छे पारस्परिक संबंध बनाने के लिए स्वयं को स्पष्ट और सटीक रूप से व्यक्त करें। वास्तविक और आभासी मीडिया में खुद को प्रभावी ढंग से अभिव्यक्त करने के लिए भाषाई दक्षताओं का प्रभावी उपयोग करें। समूह सेटिंग में बहुसांस्कृतिक संवेदनशीलता प्रदर्शित करें। पाठ्यक्रम परिणाम (COs): - CO1) आलोचना का स्वरूप, उसकी उपयोगिता और आलोचक के गुण से परिचित कराना।
M.A. Hindi	MA-II SEM-I 1) PAHN SEC-1	अनुवाद : स्वरूप एवं व्यवहार	स्थानीय भाषा के अनुवाद को स्थानीय संदर्भों और समूहों के साथ संबंधित करना।	देश की राजनीतिक, सामाजिक, आर्थिक, और सांस्कृतिक संदर्भों में सही रूप से समझाने अनुवाद मदद करता है।	स्थानीय भाषा, संस्कृति, और समाज के साथ संबंधित तत्वों को सही तरीके से प्रस्तुत करने में मदद करती है।	हिंदी-अंग्रेजी अनुवाद की वैश्विक प्रासंगिकता का महत्व और भी बढ़ गया है।	कार्यक्रम के परिणाम (POs): PO5:- व्यक्तिगत और व्यावसायिक क्षमता: मजबूत कार्य दृष्टिकोण और पेशेवर कौशल से लैस करें जो उन्हें एक टीम के माहौल में





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							सहयोगात्मक रूप से स्वतंत्र रूप से काम करने में सक्षम बनाएगा। पाठ्यक्रम परिणाम (COs): CO4 छात्र विभिन्न क्षेत्रों में अनुवाद की आवश्यकता से अवगत होंगे।
M.A. Hindi	MA-II SEM-I 2) PAHN SEC-1	निवेदन कौशल : स्वरूप एवं व्यवहार	सामाजिक और सांस्कृतिक आदि स्थानीय क्षेत्रों में निवेदन कौशल मदद करते हैं।	राजनीतिक अधिवेशन एवं सभाएँ देश की सामाजिक और राजनीतिक उन्मुखता में मदद करते हैं।	सांस्कृतिक एवं साहित्यिक समारोह में क्षेत्रीय की समस्याओं और आवश्यकताओं को समझने में मदद करता है।	विभिन्न देशों और संस्कृतियों के साथ संबंधित मंचीय समारोह ग्लोबल मंचों पर सहयोग के लिए अनुकूल होते हैं।	कार्यक्रम के परिणाम (POs): PO6:- स्व-निर्देशित और जीवन भर सीखना: संलग्न रहने की क्षमता हासिल करें, सामाजिक-तकनीकी परिवर्तन के व्यापक संदर्भ में स्वतंत्र और जीवन भर सीखना। पाठ्यक्रम परिणाम (COs): CO4 छात्र विभिन्न क्षेत्रों में निवेदन कौशल की आवश्यकता से अवगत होंगे।
M.A. Hindi	MA-II SEM-II 1) PAHN 241	आधुनिक काव्य-2	नई कविताएँ - आदिवासी स्त्रियाँ - निर्मला पुतुल	नई कविताएँ - बेमानी है आजादी - जयप्रकाश कर्दम, जन-जन का चेहरा एक - मुक्तिबोध	नई कविताएँ - आदिवासी स्त्रियाँ - निर्मला पुतुल	नई कविताएँ - हीरोशिमा - अज्ञेय बूढ़ी पृथ्वी का दुख - निर्मला पुतुल	कार्यक्रम के परिणाम (POs): - PO8 :- आलोचनात्मक सोच और समस्या समाधान: आलोचनात्मक सोच के कौशल का प्रदर्शन करें और अपने





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							सामाजिक परिवेश में स्थित समस्याओं से निपटने, व्यवहार्य समाधान प्रस्तावित करने और इसके कार्यान्वयन में मदद करने के लिए उच्च क्रम के संज्ञानात्मक कौशल का उपयोग करें। पाठ्यक्रम परिणाम (COs): - CO5. आधुनिक काव्य के अध्ययन से छात्रों को जीवन में मूल्यों का महत्व समझ में आएगा।
M.A. Hindi	MA-II SEM-II 2) PAHN 242	हिंदी भाषा का ऐतिहासिक विकास	प्राचीन भारतीय आर्य भाषाएँ - वैदिक संस्कृत, लौकिक संस्कृत।	आधुनिक भारतीय आर्य भाषाएँ	देवनागरी लिपि : उद्भव और विकास देवनागरी लिपि की विशेषताएं।	हिंदी प्रसार के आंदोलन : प्रमुख व्यक्तियों तथा संस्थाओं का योगदान, राजभाषा के रूप में हिंदी, राजभाषा हिंदी की संवैधानिक स्थिति।	कार्यक्रम के परिणाम (POs): - PO4 :- अनुशासनात्मक ज्ञान : पारंपरिक अनुशासन ज्ञान और आधुनिक दुनिया में इसके अनुप्रयोगों का मिश्रण प्रदर्शित करें। चुने गए कार्यक्रम से उत्पन्न मजबूत सैद्धांतिक और व्यावहारिक समझ को क्रियान्वित करें। पाठ्यक्रम परिणाम (COs): - CO1) छात्रों को हिंदी भाषा का उद्भव एवं विकास तथा ऐतिहासिक





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							पृष्ठभूमि का परिचय देना।
M.A. Hindi	MA-II SEM-II 3) PAHN 243	हिंदी साहित्य का इतिहास (आधुनिक काल)	आधुनिक काल : हिंदी गद्य का उद्भव और विकास, आधुनिक काव्य का विकास	आधुनिक काल : हिंदी गद्य का उद्भव और विकास, आधुनिक काव्य का विकास	आधुनिक काल : हिंदी गद्य का उद्भव और विकास, आधुनिक काव्य का विकास	आधुनिक काल : हिंदी गद्य का उद्भव और विकास, आधुनिक काव्य का विकास	कार्यक्रम के परिणाम (POs): - PO6 :- स्व-निर्देशित और जीवन भर सीखना: सामाजिक-तकनीकी परिवर्तन के व्यापक संदर्भ में स्वतंत्र और जीवन भर सीखने में संलग्न होने की क्षमता हासिल करना। पाठ्यक्रम परिणाम (COs): - CO3) छात्रों में समीक्षात्मक दृष्टि विकसित होगी।
M.A. Hindi	MA-II SEM-II 4) PAHN 244	वैकल्पिक: लोकसाहित्य	लोकगीत: परिभाषाएँ, विशेषताएँ महाराष्ट्र का लोकनाट्य-तमाशा, गोंधळ, लावणी, पोताराज, सुंबरन, वासुदेव, भारुड, लळीत, दशावतार, पोवाडा, कीर्तन।	भारत में लोकसाहित्य के अध्ययन का इतिहास।	महाराष्ट्र का लोकनाट्य: तमाशा, गोंधळ, लावणी, पोताराज, सुंबरन, वासुदेव, भारुड, लळीत, दशावतार, पोवाडा, कीर्तन।	लोक - कथा, लोकसंगीत, लोकभाषा।	कार्यक्रम के परिणाम (POs): - PO3:- सामाजिक क्षमता: व्यक्तिगत और व्यावसायिक जीवन में अच्छे पारस्परिक संबंध बनाने के लिए स्वयं को स्पष्ट और सटीक रूप से व्यक्त करें। वास्तविक और आभासी मीडिया में खुद को प्रभावी ढंग से अभिव्यक्त करने के लिए भाषाई दक्षताओं का प्रभावी उपयोग करें। समूह सेटिंग में





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							बहुसांस्कृतिक संवेदनशीलता प्रदर्शित करें। पाठ्यक्रम परिणाम (COs): - CO2) लोकसाहित्य में सामाजिक प्रथाओं, परंपराओं और सांस्कृतिक मूल्यों की जीवंत प्रस्तुतियों से परिचित होंगे।
M.A. Hindi	MA-II SEM-I 1) PAHN SEC-2	अनुवाद : प्रत्यक्ष व्यवहार	स्थानीय भाषा के अनुवाद को स्थानीय संदर्भों और समूहों के साथ संबंधित करना।	देश की राजनीतिक, सामाजिक, आर्थिक, और सांस्कृतिक संदर्भों में सही रूप से समझाने अनुवाद मदद करता है।	स्थानीय भाषा, संस्कृति, और समाज के साथ संबंधित तत्वों को सही तरीके से प्रस्तुत करने में मदद करती है।	हिंदी-अंग्रेजी अनुवाद की वैश्विक प्रासंगिकता का महत्व और भी बढ़ गया है।	कार्यक्रम के परिणाम (POs): PO5:- व्यक्तिगत और व्यावसायिक क्षमता: मजबूत कार्य दृष्टिकोण और पेशेवर कौशल से लैस करें जो उन्हें एक टीम के माहौल में सहयोगात्मक रूप से स्वतंत्र रूप से काम करने में सक्षम बनाएगा। पाठ्यक्रम परिणाम (COs): CO4) छात्र विभिन्न क्षेत्रों में अनुवाद की आवश्यकता से अवगत होंगे।
M.A. Hindi	MA-II SEM-I 2) PAHN SEC-2	निवेदन कौशल : प्रत्यक्ष व्यवहार	सामाजिक और सांस्कृतिक आदि स्थानीय क्षेत्रों में निवेदन कौशल मदद करते हैं।	राजनीतिक अधिवेशन एवं सभाएँ देश की सामाजिक और राजनीतिक	सांस्कृतिक एवं साहित्यिक समारोह में क्षेत्रीय की समस्याओं और आवश्यकता	विभिन्न देशों और संस्कृतियों के साथ संबंधित मंचीय समारोह ग्लोबल मंचों पर सहयोग के	कार्यक्रम के परिणाम (POs): PO6:- स्व-निर्देशित और जीवन भर सीखना: संलग्न रहने की क्षमता हासिल





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				उन्मुखता में मदद करते हैं।	ओं को समझने में मदद करता है।	लिए अनुकूल होते हैं।	करें, सामाजिक-तकनीकी परिवर्तन के व्यापक संदर्भ में स्वतंत्र और जीवन भर सीखना। पाठ्यक्रम परिणाम (COs): CO4) छात्र विभिन्न क्षेत्रों में निवेदन कौशल की आवश्यकता से अवगत होंगे।
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HISTORY

Progr amme	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
			Local	National	Regional	Global	
B.A.	HIS-101-MJM	Early Indian Social Organization	Unit I: Sources	Unit I: Sources	Unit I: Sources	Unit I: Sources	CO 1. The course on Early Indian social history covers different aspects of Indian social system
B.A.	HIS-102-MJM	Early India: From Prehistory to the Age of the Mauryas	Unit 1 Harappan Culture: Bronze Age Civilization	Unit 1 Harappan Culture: Bronze Age Civilization	Unit 1 Harappan Culture: Bronze Age Civilization	Unit 1 Harappan Culture: Bronze Age Civilization	CO2. Students will be able to indicate multiple cultures (Greek, Shaka, Hun etc.) of Ancient India.
B.A.	HIS-116-OE	Maratha History (1630-1707)	Unit 4. Administration under Chhatrapati Shivaji Maharaj	Unit 4. Administration under Chhatrapati Shivaji Maharaj	Unit 4. Administration under Chhatrapati Shivaji Maharaj	Unit 4. Administration under Chhatrapati Shivaji Maharaj	CO4. To learn a basic narrative of historical events in Maratha period.



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B.A.	HIS-117-OE	Ancient Maharashtra	Unit I Antiquity of Maharashtra	Unit I Antiquity of Maharashtra	Unit I Antiquity of Maharashtra	Unit I Antiquity of Maharashtra	1. The history of Ancient Maharashtra is a crucial part of Indian history.
B.A.	HIS-121-VSC	Tourism Management	Unit I Tourism	Unit I Tourism	Unit I Tourism	Unit I Tourism	CO1. Students will get an overall understanding of the process of Tourism Management
B.A.	HIS-126-SEC	Introduction to Food Tourism in India	Unit II Food Tourism in India	Unit II Food Tourism in India	Unit II Food Tourism in India	Unit II Food Tourism in India	CO2. Food tourism will promote tourism and countries which have gastronomic heritage
B.A.	HIS-137-IKS	Popular Indian Culture	Unit IV Fairs, festivals and rituals,	Unit IV Fairs, festivals and rituals,	Unit IV Fairs, festivals and rituals,	Unit IV Fairs, festivals and rituals,	CO1. This course enables students to explore various



			pilgrimage:	pilgrimage:	pilgrimage:	pilgrimage:	aspects of Popular Culture
B.A.	HIS-151-MJM	Religious systems of Early India	UNIT II: Hinduism and its Evolution	UNIT II: Hinduism and its Evolution	UNIT II: Hinduism and its Evolution	UNIT II: Hinduism and its Evolution	CO 4. Students shall understand the societal and cultural impact of early Indian religions.
B.A.	HIS-152-MJM	Early India: Post Mauryan Age to The Rashtrakuts	UNIT I: Post-Mauryan India	UNIT I: Post-Mauryan India	UNIT I: Post-Mauryan India	UNIT I: Post-Mauryan India	CO 1. Students will gain a comprehensive knowledge of the historical developments in India from the post-Mauryan period to the Rashtrakuta era.
B.A.	HIS-161-MN	Prehistory and Proto-history of India	UNIT V: Proto-history and Indus Valley Civilization	UNIT V: Proto-history and Indus Valley Civilization	UNIT V: Proto-history and Indus Valley Civilization	UNIT V: Proto-history and Indus Valley Civilization	To examine the cultural, social, and technological developments



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							nts of early human population s in India
B.A.	HIS-166-OE	History of the Marath as 1707-1761	UNIT IV: Society and Culture	UNIT IV: Society and Culture	UNIT IV: Society and Culture	UNIT IV: Society and Culture	CO 5. They will appreciate the cultural and societal developme nts within the Maratha Empire.
B.A.	HIS-166-OE	History of the Mahara shtra 1818 - 1960	Unit II: Social and Cultural Transformations	Unit II: Social and Cultural Transformations	Unit II: Social and Cultural Transformations	Unit II: Social and Cultural Transformations	To provide students with a comprehe nsive understand ing of the history of Maharasht ra from the downfall of the Peshwa in 1818 to 1947.
B.A.	HIS-171-VSC	Travel Agency and Tour Busines s	Unit I: Introducti on to Travel Agency and Tour Business	Unit I: Introducti on to Travel Agency and Tour Business	Unit I: Introducti on to Travel Agency and Tour Business	Unit I: Introducti on to Travel Agency and Tour Business	To introduce students to the fundament als of the travel and tourism industry, including





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							its history, components, and significance
B.A.	HIS-176-SEC	Culinary History of India	Unit II: Evolution of Indian Cuisine	Unit II: Evolution of Indian Cuisine	Unit II: Evolution of Indian Cuisine	Unit II: Evolution of Indian Cuisine	To examine the cultural, historical, and geographical factors that have shaped India's culinary traditions
B.A.	U A H S 2 3 1	Medieval India – Sultanate Period	Unit I: Foundation of the Delhi Sultanate	Unit I: Foundation of the Delhi Sultanate	Unit I: Foundation of the Delhi Sultanate	Unit I: Foundation of the Delhi Sultanate	CO 1. Demonstrate thinking skills by analyzing, synthesizing, and evaluating historical information from multiple sources
B.A.	: U A H S 2 3 2	History of the Marathas : (1630 – 1707)	Unit-IV: Chhatrapati Sambhaji Maharaj to the Maratha War of Independence	Unit-IV: Chhatrapati Sambhaji Maharaj to the Maratha War of Independence	Unit-IV: Chhatrapati Sambhaji Maharaj to the Maratha War of Independence	Unit-IV: Chhatrapati Sambhaji Maharaj to the Maratha War of Independence	CO 7. Investigating the administrative and political systems implemented by Shivaji and subsequent





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							t Maratha rulers
B.A.	: U A H S 2 3 3	History of the Modern World Part I	The Age of Revolutions	The Age of Revolutions	The Age of Revolutions	The Age of Revolutions	CO 5. Study major revolutionary movements, such as the American Revolution and the French Revolution, and analyze their ideological underpinnings and consequences.
B.A.	UAHA 241	Medieval India: Mughal Period	Unit I: Foundation of Mughal Empire	Unit I: Foundation of Mughal Empire	Unit I: Foundation of Mughal Empire	Unit I: Foundation of Mughal Empire	1. To introduce students to the sources and historiography of the Mughal period, enabling them to critically analyze historical accounts





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	UAHA 242	History of the Marath as: 1707- 1818	Unit-IV: Administ ration and society during Peshwa Period	Unit-IV: Administ ration and society during Peshwa Period	Unit-IV: Administ ration and society during Peshwa Period	Unit-IV: Administ ration and society during Peshwa Period	To explore the reasons behind the defeat of the Marathas in the Third Battle of Panipat
	UAHS 243	Glimps es of the Modern World	Unit I. World War I and Rise of Communi sm	Unit I. World War I and Rise of Communi sm	Unit I. World War I and Rise of Communi sm	Unit I. World War I and Rise of Communi sm	To explore the causes and consequ nces of World War II, with a focus on the global impact and lessons learned.
B.A.	T.Y.B. AHIS GEN 3501	History of the world in 20 th Century (1914- 1992) Part I	Unit-2 RussianR evolution	Unit-2 RussianR evolution	Unit-2 RussianR evolution	Unit-2 RussianR evolution	PSO 01. To learn a basic narrative of historical events in a specific region of the world in a specific time frame.





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B.A.	T.Y.B. AHIS SPL 3502	Intro duction to History Part I	Unit-1 Nature and Scope of History	Unit-1 Nature and Scope of History	Unit-1 Nature and Scope of History	Unit-1 Nature and Scope of History	To articulate factual & contextual knowledge of specific places & times, to make careful compariso ns (across time, space & culture).
B.A.	T.Y.B. AHIS SPL 3503	History of Asia in 20 th Century (1914- 1992) Part I	Unit-1 China	Unit-1 China	Unit-1 China	Unit-1 China	PSO 01. To learn a basic narrative of historical events in a specific region of the world in a specific time frame.
B.A.	T.Y.B. AHIS 3601	History of the world in 20 th Century (1914- 1992) Part II	Unit 1 : World War II	Unit 1 : World War II	Unit 1 : World War II	Unit 1 : World War II	PO 2 (Problem Analysis): Acquiring in-depth knowledge of the causes and impacts of the First World War aligns with the





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							program outcome of developing logical understanding of the past for analyzing current societal problems (PO 2).
B.A.	T.Y.B. AHIS 3602	Introduction to History Part II	Unit 2 : School of Historiography	Unit 2 : School of Historiography	Unit 2 : School of Historiography	Unit 2 : School of Historiography	PSO 01. To learn a basic narrative of historical events in a specific region of the world in a specific time frame.
B.A.	T.Y.B. AHIS 3603	History of Asia in 20 th Century (1914-1992) Part II	Unit-3 Arab Israel Conflict	Unit-3 Arab Israel Conflict	Unit-3 Arab Israel Conflict	Unit-3 Arab Israel Conflict	PSO 01. To learn a basic narrative of historical events in a specific region of the world in a specific time frame.





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M.A.	HIS-501-MJM	History and Its Theory	Unit 4 : Structuralism, Post-structuralism	Unit 4 : Structuralism, Post-structuralism	Unit 4 : Structuralism, Post-structuralism	Unit 4 : Structuralism, Post-structuralism	CO 5. Students will Develop interest in research.
M.A.	HIS-502-MJM	Evolution of Ideas and Institutions in Early India	Unit 1 : Defining Early India	Unit 1 : Defining Early India	Unit 1 : Defining Early India	Unit 1 : Defining Early India	CO1. Students will be able to analyze perceptions, limitations and range of sources of Early India
M.A.	HIS-503-MJM	Maratha Polity	Unit 5 : Judicial Administrative System	Unit 5 : Judicial Administrative System	Unit 5 : Judicial Administrative System	Unit 5 : Judicial Administrative System	CO 7. It will enhance their perception of 17th century Maharashtra and India in context of Maratha history





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M.A.	HIS-504-MJM	Heritage Management	Unit 1 Concept of Heritage	Unit 1 Concept of Heritage	Unit 1 Concept of Heritage	Unit 1 Concept of Heritage	CO 1. The paper aims to make the students aware about the tangible and intangible heritage that the mankind has received
M.A.	HIS-511-MJE	Social Background of Dalit Movement in Maharashtra	Unit 4: Non-Dalit Contribution to the Dalit Movement	Unit 4: Non-Dalit Contribution to the Dalit Movement	Unit 4: Non-Dalit Contribution to the Dalit Movement	Unit 4: Non-Dalit Contribution to the Dalit Movement	CO3.They discuss the contemporary social issues in classroom and its related to be social history.
M.A.	HIS-521-RM	Research Methodology	Unit I - Nature of Social Research	Unit I - Nature of Social Research	Unit I - Nature of Social Research	Unit I - Nature of Social Research	1)There are many problems in our Society . Student can know them with their causes and





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							process to solve them.
M.A.	PAHS 241	Modern Maharashtra : A History of Ideas (1818-1960)	Unit I . Critical Reappraisal of Religions	Unit I . Critical Reappraisal of Religions	Unit I . Critical Reappraisal of Religions	Unit I . Critical Reappraisal of Religions	CO 1. Students will critically assess various religions and their impact on Indian society, including missionary activities and reformist critiques, fostering a deeper understanding of religious dynamics.
M.A.	PAHS 242	Debates in Indian Historiography	Unit II .Harappa Civilization	Unit II .Harappa Civilization	Unit II .Harappa Civilization	Unit II .Harappa Civilization	To critically evaluate the impact of Orientalism and





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							epistemic violence on Indian historiography and its consequences for the study of Indian history.
M.A.	PAHS 243	World after World War II (1945-2000)	Unit I. Cold War: Origin and Nature, Issues	Unit I. Cold War: Origin and Nature, Issues	Unit I. Cold War: Origin and Nature, Issues	Unit I. Cold War: Origin and Nature, Issues	To understand the origin and nature of the Cold War and its implications for global politics, with a focus on key events like the Berlin Crisis (1948), Korean War, and Cuban Crisis.
M.A.	PAHS 244	History of Modern India (1857-1971)	Unit III. Towards Freedom: 1920-1947	Unit III. Towards Freedom: 1920-1947	Unit III. Towards Freedom: 1920-1947	Unit III. Towards Freedom: 1920-1947	CO 4. Students will critic





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							ally anal yze the chall enge s and intri cacie s of achi evin g inde pend ence , inclu ding the proc esses of Tran sfer of Pow er and the integ ratio n of princ ely state s.
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LIBRARY SCIENCE

Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
		Local	National	Regional	Global	
LIS-101-MJM	Knowledge Organization Classification: A	Colon Classification	Colon Classification	Colon Classification	Colon Classification	<p>CO7. To understand the concept, objectives, functions and types of classification Schemes.</p> <p>PO1: Research-Related Skills and Scientific temper:</p> <p>CO7: This contributes to research-related skills by requiring students to delve into the literature, critically assess different classification schemes, and develop a scientific temper by questioning and understanding the underlying principles.</p>



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LIS-102-MJM	Information Processing: Cataloguing -A	Library Catalogue	Library Catalogue	Library Catalogue	Library Catalogue	CO6. Will be useful to understand the basic functions and practical work in library cataloguing. PO3: Social competence and communication skills: CO6: Practical experience in library cataloguing enhances social competence by providing hands-on skills in managing information resources.
LIS-116-OE	Electronic resources	Electronic resources	Electronic resources	Electronic resources	Electronic resources	CO1. The meaning, definition and types of electronic resources PO1: Research-Related Skills and Scientific temper CO1: This CO enhances research-related skills





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						by introducing students to various electronic resources. Understanding the types and definitions of electronic resources is crucial for conducting comprehensive research in the digital age.
LIS-117-OE	Library Management System	Human resource Management	Human resource Management	Human resource Management	Human resource Management	CO7: Comprehend the concept of financial management and human resource management PO2: Effective Citizenship and Ethics: CO7: Understanding financial and human resource management is essential for responsible citizenship within an organization.





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LIS-121-VSC	Knowledge Organization:	Structure and Organization of DDC	Structure and Organization of DDC	Structure and Organization of DDC	Structure and Organization of DDC	CO6. To develop skills of classification. PO6 :Self-directed and Life-long learning: CO6: Developing classification skills is an ongoing process that aligns with life-long learning
LIS-126-SEC	Soft Skills For LIS	Annual Reports	Annual Reports	Annual Reports	Annual Reports	CO3. Maintain the library statistics and prepare annual report. PO1: Research-Related Skills and Scientific temper: CO3: Keeping track of library statistics and preparing reports require data collection, analysis, and presentation skills. This directly aligns with research-





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						related skills, as students learn to gather, interpret, and communicate information effectively.
LIS-137-IKS	Foundations of Library & Information Science	Types of Libraries	Types of Libraries	Types of Libraries	Types of Libraries	CO6. To develop skills of classification. PO6 : Self-directed and Life-long learning CO2 :This outcome encourages students to stay updated with the latest technology trends, fostering a culture of life-long learning.
LIS-501-MJM	Information Communication Society	Developments in Information Society	Developments in Information Society	Developments in Information Society	Developments in Information Society	CO3. Knowledge about different types of libraries PO4 :Disciplinary Knowledge: CO3: This CO builds disciplinary knowledge by familiarizing students with the various





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						types of libraries.
LIS-502-MJM	Management of Libraries &	Human Resources Management	Human Resources Management	Human Resources Management	Human Resources Management	4. Should be capable of managing the human resources beneficially. PO5 Personal and professional competence: CO4 : contribute to the development of students' Personal and professional competence.
LIS-503-MJM	Information Technology	Library Digitization	Library Digitization	Library Digitization	Library Digitization	3.To examines basic concepts and theories of digital libraries PO3 Social competence and communication skills: CO3, CO4, CO5 also contributes to Social competence and communication skills For example CO3, CO4, CO5





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						students will be use to communication technology.
LIS-504-MJM	Information Retrieval	Information Models	Information Models	Information Models	Information Models	6. Understand the various information retrieval models PO1 Research-Related Skills and Scientific temper: CO6 community building in library marketing.
LIS-511-MJE	Academic Library System	Resource sharing	Resource sharing	Resource sharing	Resource sharing	CO7: Learn about the resources sharing and consortia practices available in academic libraries
LIS-521-RM	Introduction to Research	Research Tools.& SPSS	Research Tools.& SPSS	Research Tools.& SPSS	Research Tools.& SPSS	2. Should be able to understand the basic theory and practice of research and be familiar with qualitative and





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						<p>quantitative methods.</p> <p>PO2</p> <p>Effective Citizenship and Ethics:</p> <p>All of the COs also contributes to Effective Citizenship and Ethics. For example, CO2, and CO3</p> <p>The students will be understand TQM, Management, change management ethics CO4 students to use their Effective management system in library.</p>
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MARATHI

Programe	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
			Local	National	Regional	Global	
F.Y. B.A. Sem. I	MAR - 101- MJM	मराठी साहित्य : कथा	Stories Language Skills निवडक मराठी कथा” संपा. डॉ. वसंत शेकडे, डॉ.गीता मांजरेकर आणि इतर,	Multi Language Skills मृणालीचे लावण्य- दिवाकर कृष्ण	Regional Language Skills बाबांचा संसार माझा कसा होणार? विभावरी शिरूरकर	Translators संस्कार – वामनराव चोरघडे	Pos. 1) Research-Related Skills: Pso- मराठी भाषा आणि वाङ्मयाविषयीचे प्रगत ज्ञान होईल. Co- साहित्याच्या अभ्यासातून विद्यार्थ्यांच्या सूक्ष्म, विश्लेषक व चिकित्सक अभ्यास करण्याच्या क्षमतेमध्ये वाढ होईल. CO. विद्यार्थ्यांची कथावाचन, लेखन व सादरीकरणाची क्षमता वाढेल.
F.Y. B.A. Sem. I	MAR 102- MJM	मराठी भाषेची कौशल्ये -१	Poetry Language Skills प्रगत भाषिक कौशल्ये	Entrepreneurs श्रवण कौशल्य	Regional Language Skills वाचन कौशल्य –	Translators लेखन कौशल्य	Po5 Personal and professional competence Pso- लेखन-संपादन, लेखन - विद्या, भाषांतर, रूपांतर, अनुवाद,





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							वक्तृत्व कला, नाट्यकला, याअभिव्यक्तीच्या आविष्कार प्रकार व प्रक्रियांविषयी तसेच त्यासंबंधीची माहिती होईल. Co-कार्यालयीनव व्यावसायिक भाषाव्यवहारातील बारकावे लक्षात येतील.
F.Y. B.A. Sem. I	MAR - 116-OE	भाषा आणि उपयोजि त मराठी -१	प्रशासनिक पत्रव्यवहार:	अर्ज लेखन	पत्रलेखन	इतिवृत्त लेखन	PO8: Critical Thinking and Problem solving: PSO- विद्यार्थ्यांची भाषिक कौशल्याच्या वापरासंबंधीची क्षमता विकसित होईल. CO मराठीचा कार्यालयीन, व्यवसायिक कामकाजात भाषेचे उपयोजन समजेल.
F.Y. B.A. Sem. I	MAR - 117-OE	भाषा आणि उपयोजि त मराठी -२	सारांश लेखन	संवाद लेखन	ई-मेल	विकिपीडियाव र ब्लॉग लेखन	PO8: Critical Thinking and Problem solving:





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F.Y. B.A. Sem. I	MAR - 121-VSC	: मराठी भाषेचे सर्जनशी ल उपयोज न	मराठी भाषेची सर्जनशीलता	भाषा वापराची विविधता	वृत्तपत्रे -	आकाशवाणी दूरचित्रवाणी	PO8: Critical Thinking and Problem solving: PSO- विद्यार्थ्यांची भाषिक कौशल्याच्या वापरासंबंधीची क्षमता विकसित होईल. CO- सर्जनशीलतेमुळेच नाविण्याचा सातत्याने शोध विद्यार्थ्यांना घेता येऊ शकतो.
F.Y. B.A. Sem. I	MAR - 126-SEC	मराठी व्याकरण स्वरूप विचार- १	भाषा आणि लिपी सहसंबंध	देवनागरी लिपी आणि मराठी भाषा	स्वर आणि व्यंजन	वर्णमाला : वर्णांचे प्रकार जोडाक्षरांचे लेखन	PO3: Social competenc e and





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							communication skills: PSO. विद्यार्थ्यांची भाषिक अभिव्यक्ती सुधारण्यास तसेच पर्यायाने समाजाची भाषिक अभिवृद्धी विकसित होण्याची प्रक्रिया सुरू होईल. CO- मराठी व्याकरणाचा व्यावहारिक उपयोग विद्यार्थ्यांना करता येईल.
F.Y. B.A. Sem. I	ENG - 131- AEC	AEC 1 (English)					
F.Y. B.A. Sem. I	SOC - 135- VEC	विकास आणि बदलाचे समाज शास्त्र					
F.Y. B.A. Sem. I	MAR - 137-IKS	मानव्य विद्या व ललित कलांचा अभ्यास	तत्त्वज्ञान	नीतीशास्त्र	भाषाशास्त्र सौंदर्यशास्त्र	शिल्पकला परिचय वास्तुकला	PO4:Disciplinary Knowledge : p s o - मराठी भाषा आणि वाङ्मयाविषयीचे प्रगत ज्ञान होईल. CO मानव्य विद्या व ललित कलांचा अभ्यास आणि कलांबद्दलची





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							जाणीव विकसित होईल.
F.Y. B.A. Sem. I	--	To be selected from the Basket					
F.Y. B.A. Sem. II	MAR - 151- MJM	मराठी साहित्य: कविता	नेमलेला कविता संग्रह "सीझर कर म्हणतेय माती"- कविता:	बाया, बैल	गोंदण, सावल्या	साहेब, खत, वाटण्या	Po5 Personal and professional competence Pso- लेखन- संपादन, लेखन - विद्या, भाषांतर, रूपांतर, अनुवाद, वक्तृत्व कला, नाट्यकला, या अभिव्यक्तीच्या आविष्कार प्रकार व प्रक्रियांविषयी तसेच त्यासंबंधीची माहिती होईल. CO कवितेचा आस्वाद घेण्याची डोळस क्षमता विकसित होईल. जागतिकीकरणाचा ग्रामीण जीवनावर होणारा परिणाम समजेल..





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F.Y. B.A. Sem. II	MAR - 152- MJM	मराठी भाषेची कौशल्ये -२	कार्यक्रम संयोजन कौशल्ये प्रास्ताविक, परिचय, स्वागत-सत्कार	सूत्रसंचालन : भाषिक कौशल्ये सूत्रसंचालकाचे गुण वैशिष्ट्ये	सूत्रसंचालन प्रकार	सूत्रसंचालक	PO8: Critical Thinking and Problem solving: PSO- साहित्याच्या अभ्यासातून विद्यार्थ्यांच्या सूक्ष्म, विश्लेषक व चिकित्सक अभ्यास करण्याच्या क्षमतेमध्ये वाढ होईल CO सूत्रसंचालनाचे माध्यमांमध्ये होणारे उपयोग समजावून घेता येईल.
F.Y. B.A. Sem. II	MAR - 161-MN	मराठी साहित्य: ललित गद्य	ललित रंग – संपादक— डॉ.मंदा खांडगे, डॉ. तानाजी पाटील, प्राचार्य डॉ.शिवाजीराव मोहिते	निबंध लेखन	आऊ- वि.द. घाटे गंधगाभारा- इंदिरा संत तोडे- शांता शेळके पाटी आणि पोळी डॉ.आनंद यादव	अरण्य वाचन —मास्ती चितमपल्ली वामनदादा : तुफानातील दिव्यांचे झाड- डॉ. यशवंत मनोहर	PO4:Disciplinary Knowledge : p s o - मराठी भाषा आणि वाङ्मयाविषयीचे प्रगत ज्ञान होईल. CO- ललित गद्याच्या माध्यमातून विविध क्षेत्रातील संस्मरणीय व्यक्तिचित्रांचा अभ्यास होईल..





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F.Y. B.A. Sem. II	MAR - 166-OE	व्यावसायिक लेखन	वृत्तांत लेखन	दृक्श्राव्य वृत्तांत लेखन	वैज्ञानिक शैक्षणिक आर्थिक	सामाजिक राजकीय	PO8: Critical Thinking and Problem solving: pso-वाङ्मयीन व सामाजिक प्रश्नांसंबंधी विचार करण्याची जाण वाढीस लागेल. CO- व्यवसायिक कामकाजात मराठी भाषेचे उपयोग समजेल.
F.Y. B.A. Sem. II	MAR - 167-OE	आधुनिक व इलेक्ट्रॉनिक माध्यमांसाठी लेखन	संकेतस्थळ फेस बुक	ट्विटर	व्हॉट्सअप	युट्यूब	PO8: Critical Thinking and Problem solving: pso-वाङ्मयीन व सामाजिक प्रश्नांसंबंधी विचार करण्याची जाण वाढीस लागेल. CO. इलेक्ट्रॉनिक माध्यमांतील मराठी भाषेची उपयुक्तता समजेल..
F.Y. B.A. Sem. II	MAR - 171-VSC	मराठी भाषेचे संगणकीय उपयोग	संगणकावर मराठीचा वापर, इतिहास व विस्तार	संगणकावर युनिकोडमधून मराठी मुद्रण	गुगल इनपुट व वापर मायक्रोसॉफ्ट इनपुट	मोबाईलवर युनिकोडमधून मराठी मुद्रण	PO4:Disciplinary Knowledge :





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		न						PSO. भाषेचे विविध व्यवहार आणि साहित्याच्या संदर्भातील भाषा व्यवहार याविषयीची आकलनाची क्षमता विकसित होईल. COसंगणकावर विविध माध्यमांसाठी लेखन करता येईल.
F.Y. B.A. Sem. II	MAR - 176-SEC	प्रयोगा धिष्ठीत कलांचा अभ्यास (नाटक व चित्रपट)	नाटक स्वरूप आणि संकल्पना	नाट्य कलेतील विविध स्थित्यंतरे	नाटकाचे प्रकार, भाषा व आकृतीबंध	चित्रपट निर्मिती-साधने चित्रपट भाषा आणि विश्लेषण	PO4:Disciplinary Knowledge : PSO. भाषेचे विविध व्यवहार आणि साहित्याच्या संदर्भातील भाषा व्यवहार याविषयीची आकलनाची क्षमता विकसित होईल. COडोळसपणा ने व कलात्मक समजुतीने चित्रपट व नाटक पाहण्याचे कौशल्य आत्मसात करता येईल	
F.Y. B.A. Sem. II	ENG- 181- AEC	AEC -2 (Engl ish)						





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F.Y. B.A. Sem. II	SOC - 185- VEC	विकास आणि बदलाचे समाज शास्त्र					
F.Y. B.A. Sem. II	--	To be selec ted from the Bask et					
F.Y.B. COM Sem. I	UCMR1 21(B)	साहित्य आणि भाषिक कौशल्ये विकास	वैचारिक, विषयक इडली, आर्किड आणि मी -लेखक -विठ्ठल कामत	Multi Languag e Skills निबंध लेखन, भाषिक कौशल्य	Regional Language Skills ललित, वाणिज्य	Job Opportun ity व्यावसायिक कौशल्य	PO4: Disciplinar y Knowledge : PSO- वाङ्मयाची आणि जीवनाची जाणीव प्रौढ होईल. Co- विद्यार्थ्यांच्या लेखन गुणांना उत्तेजन मिळेल.कार्यालयीन व प्रशासकीय व्यवहार करताना व द्यार्थ्यांना मराठीचा अचूक व प्रभावी वापर करता येईल.
F.Y.B. COM Sem. II	UCMR1 21(B)	भाषा आणि भाषिक कौशल्ये विकास	अर्ज लेखन: विनंती अर्ज	Multi Languag e Skills इतिवृत्त लेखन	Regional Language Skills टिप्पणी लेखन	Job Opportun ity प्रशासनिक कौशल्य	PO8: Critical Thinking and Problem solving:





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							PSO- विद्यार्थ्यांची भाषिक कौशल्याच्या वापरासंबंधीची क्षमता विकसित होईल. Co-भाषिक क्षमता व कौशल्य आत्मसात करता येतील.
S.Y.B. A. Sem. III	UAMR2 31	मराठी साहित्य : चरित्र आणि उपयोजि त मराठी	Stories Language Skills KkuT;ksrh lkfo=hckbZ Qqys % L=h gDdkpk iz.ksR;k&izk- gjh ujds	Multi Languag e Skills महर्षी /kksaMk sa ds'ko dosZ % निष्काम deZ;ksxh & MkW- u- e- tks'kh	Regional Language Skills egkjtk l;kthjko xk;dokM % दूरदृष्टा jktk&ckc k HkkaM	Translete rs MkW- ckcklkgs c vkacsMd j % fo slkBh [kMrj izokl& /kuat; dhj	Po6; Self- directed and Life- long learning: Pso चरित्रात्मक लेखाचे आस्वाद आणि मूल्यमापन करण्याची क्षमता विद्यार्थ्यांमध्ये निर्माण होईल. Co लेखकाच्या समग्र लेखक म्हणून अभ्यासाची जाण विकसित होईल तसेच विविध साहित्य प्रवाहांची माहिती होईल व अशा अभ्यासाच्या आकलनक्षमतेत वाढ होईल.
S.Y.B. A. Sem. III	UAMR2 32	साहित्य प्रकारा चा अभ्यास : नाटक	Poetry Language Skills निवडक कथा व विविध वाङ्मय प्रकारचा अभ्यास	Entrepre neurs निवडक कादंबरी, व विविध वाङ्मय	Regional Language Skills निवडक कविता व विविध वाङ्मय	Translete rs निवडक नियतकालिके विविध वाङ्मय	Po6. Self- directed and Life- long learning:





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				प्रकारचा अभ्यास	प्रकारचा अभ्यास	प्रकारचा अभ्यास	Pso- लेखकाच्या समग्र लेखक म्हणून अभ्यासाची जाण विकसित होईल तसेच विविध साहित्य प्रवाहांची माहिती होईल व अशा अभ्यासाच्या आकलनक्षमतेत वाढ होईल. Co- आत्मचरित्र, आत्मकथन या वाङ्मय प्रकाराचे विद्यार्थ्यांना आकलन होईल.
S.Y.B. A. Sem. III	UAMR2 33	आधुनिक मराठी वाङ्मयाचा इतिहास (इ.स. १८१८ ते १९२०)	Language & Literature Skill निवडक कथा व विविध वाङ्मय प्रकारांचा अभ्यास	Multi Language Skills निवडक कादंबरी, व विविध वाङ्मय प्रकारांचा अभ्यास	Regional Language Skills निवडक कविता व विविध वाङ्मय प्रकारांचा अभ्यास	Job Opportunity निवडक नियतकालिके विविध वाङ्मय प्रकारांचा अभ्यास	Po4.Disciplinary Knowledge: Pso-विशिष्ट कालखंडातील साहित्याच्या अभ्यासाच्या व्याप्ती बदल विद्यार्थ्यांची जाण वाढीस लागण्यास मदत होईल. Co- या संपूर्ण कालखंडातील निबंध, कविता, कथा, कादंबरी, नाटक, चरित्र-आत्मचरित्र, या वाङ्मय प्रकाराचे विद्यार्थ्यांना आकलन होईल.





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S.Y.B. A. Sem. III	UAMRS EC01	भाषिक कौशल्ये - सूत्रसंचा लन					
S.Y.B. A. Sem. IV	UAMR2 41	मराठी साहित्य : आत्मक थन आणि उपयोजि त मराठी	Stories Language Skills e;kZn'khy thoukpk vkys[k & Jherh izfrHkkrkbZ ikVhy	Multi Languag e Skills eh vkf.k ek>s ys[ku& MkW- ;w- e- iBk.k	Regional Language Skills lkfgfR;d tM.k?kM. k& jk- x- tk/ko	Translete rs foLrkj.kk js f{kfrt& MkW- rkjk HkokGdj	Po6; Self- directed and Life- long learning: Pso चरित्रात्मक लेखाचे आस्वाद आणि मूल्यमापन करण्याची क्षमता विद्यार्थ्यांमध्ये निर्माण होईल. Co लेखकाच्या समग्र लेखक म्हणून अभ्यासाची जाण विकसित होईल तसेच विविध साहित्य प्रवाहांची माहिती होईल व
S.Y.B. A. Sem. IV	UAMR2 42	मराठी साहित्या तील विविध साहित्य प्रकार	Language Skills	Languag e Skills कादंबरी - "७२ मैल" अशोक व्हटकर	Entrepren eurs कादंबरीचे घटक	Regional Languag e Skills कादंबरीचे प्रकार	Anchor कथानक
S.Y.B. A. Sem. IV	UAMR2 43	आधुनि क मराठी वाङ्मया चा इतिहास (इ.स.	Language Skills	Languag e & Literatur e Skill निवडक कथा व विविध वाङ्मय	Multi Language Skills निवडक कादंबरी, व विविध वाङ्मय	Regional Languag e Skills निवडक कविता व विविध वाङ्मय	Job Opportunity निवडक नियतकालिके विविध वाङ्मय प्रकारचा अभ्यास





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		१८१८ ते १९२०)		प्रकारचा अभ्यास	प्रकारचा अभ्यास	प्रकारचा अभ्यास	
S.Y.B. A. Sem. IV	UAMRS EC-2	भाषिक कौशल्ये : सूत्रसंचा लन	Language Skills विविध भाषिक कौशल्य	Multi Languag e Skills लेखन कौशल्य	Regional Language Skills वाचन कौशल्य श्रवण कौशल्य	Global अनुवाद कौशल्य,	PO3: Social competenc e: PSO. विद्यार्थ्यांची चिकित्सक अभ्यासाची क्षमता विकसित होईल. Co- भाषिक कौशल्याची क्षमता विकसित होईल.
T.Y.B. A. Sem.V	MARGE N3501	आधुनि क मराठी साहित्य प्रकारां चा अभ्यास	Stories Language Skills 'उद्याच्या सुंदर दिवसांसाठी' - डॉ. नागनाथ कोतापल्ले,	Multi Languag e Skills ग्रंथ परीक्षण	Regional Language Skills ललित गद्य स्वरूप	Translete rs संवाद कौशल्य	PO6: Self- directed and Life- long learning: pso - साहित्याच्या लक्षणांबाबत विचारांची आणि वाङ्मयीन मूल्यमापनाच्या दृष्टीची समज विकसित होईल. co- विद्यार्थ्यांची वाङ्मयीन अभिरुची विकसित झाल्याने साहित्यकृतीच्या गुणात्मक मूल्यांची जाणीव होईल
T.Y.B. A. Sem.V	MARSP L3502	साहित्य विचार	Language Skills व्यवहारभाषा, शास्त्रीय साहित्याची भाषा व	Multi Languag e Skills कलावादी व जीवनवादी या	1. R eg io na l	आस्वादक	PO4:Discip linary Knowledge :





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			साहित्याची भाषा यांच्यातील भेद	दृष्टीने प्रयोजन विचार	La ng ua ge Sk ill s सा हि त्या चे श ब्द स्व रूप		pso - साहित्याच्या लक्षणांबाबत विचारांची आणि वाङ्मयीन मूल्यमापनाच्या दृष्टीची समज विकसित होईल. CO- साहित्याची निर्मिती प्रक्रिया व आस्वाद प्रक्रियेचे स्वरूप लक्षात येईल.
T.Y.B. A. Sem.V	MARSP L3503	मराठी चा भाषिक अभ्यास	Language Skills बहुभाषिकत्व	Multi Languag e Skills भाषाभेद	Regional Language Skills बोलीभूगोल	Translete rs अनुवाद	PO4:Discip linary Knowledge : psoविद्यार्थ्यांची भाषिक अभिव्यक्ती सुधारण्यास तसेच पर्यायाने समाजाची भाषिक अभिवृद्धी विकसित होण्याची प्रक्रिया सुरू होईल. CO-भाषा कुलाची संकल्पना समजेल.
T.Y.B. A. Sem.V	UAMRS EC SEC- 3	लेखन विषयक नियम	Language Skills	Multi Languag e Skills	Regional Language Skills	Job Opportun ity	
T.Y.B. A. Sem.V I	MARGE N3601	आधुनि क मराठी साहित्य प्रकारां	Stories Language Skills	Multi Languag e Skills	Regional Language Skills	Translete rs प्रवासवर्णनकार	PO6: Self- directed and Life- long learning:





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		चा अभ्यास	“दोन चाक आणि मी” -लेखक- हृषीकेश पाळंदे,	प्र वासवर्णनाचे घटक	प्रवा स वर्णनाची परंपरा		pso- साहित्यकृतीच्या, साहित्यप्रकारांच्या, तौलनिक अभ्यासाची दिशा, व्याप्ती व मर्यादा याबाबतीत समज निर्माण होण्यास मदत होईल. co- विद्यार्थ्यांची साहित्यप्रकारांचा तौलनिक अभ्यास करण्याची क्षमता विकसीत होईल.
T.Y.B. A. Sem.V I	MARSP L3602	साहित्य विचार	Language Skills आस्वादकाचे गुण	Multi Language Skills लेखक, वाचक आणि भाषा यांची सामाजिकता	Regional Language Skills अभिरुची नियंत्रित करणारे घटक	Translete rs साहित्य प्रकार संकल्पना	PO8: Critical Thinking and Problem solving: pso - वाङ्मयीन व सामाजिक प्रश्नांसंबंधी विचार करण्याची जाण वाढीस लागेल co- समाजनिष्ठ साहित्य हेच अभिजात साहित्य असते हे समजेल.
T.Y.B. A. Sem.V I	MARSP L3603	मराठी चा भाषिक अभ्यास	Language Skills स्वन विज्ञान	Multi Language Skills अर्थाचे विविध प्रकार	Regional Language Skills स्वनिम निश्चितीची तत्वे	Translete rs रूपिमाचे प्रकार	PO4:Discip linary Knowledge : pso - मराठी भाषा आणि वाङ्मयाविषयीचे प्रगत ज्ञान होईल.





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							CO- मराठी भाषेची उत्पत्ती व विकास याचे आकलन होईल.
T.Y.B.A. Sem.V I	PR-1	Project-1	Language Skills भाषिक कौशल्य चरित्र, आत्मचरित्र	Multi Language Skills ग्रंथ परीक्षण	Regional Language Skills कविता	Global अनुवाद कौशल्य	PO3: Social competence: PSO. विद्यार्थ्यांची चिकित्सक अभ्यासाची क्षमता विकसित होईल. Co- भाषिक कौशल्याची क्षमता विकसित होईल.
S.Y.BS .C. Sem. III	USMR2 31A	मराठी विज्ञान कथा साहित्य	Stories Language Skills विज्ञान कथा	Multi Language Skills वैज्ञानिक दृष्टी	Regional Language Skills तार्किकता	अनुमान	PO8: Critical Thinking and Problem solving: PSO- साहित्याच्या अभ्यासातून विद्यार्थ्यांच्या सूक्ष्म, विश्लेषक व चिकित्सक अभ्यास करण्याच्या क्षमतेमध्ये वाढ होईल. CO- वैज्ञानिक जाणीवा विकसित होतील.
S.Y.BS .C. Sem. VI	USMR2 41A	व्यावहारिक व उपयोजित मराठी	Stories Language Skills विज्ञान कथा	Multi Language Skills वैज्ञानिक जाणीव	Regional Language Skills वैज्ञानिक दृष्टिकोन	Translators वैज्ञानिकता	PO8: Critical Thinking and Problem solving: PSO-





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M. A. I Sem.I	MAR - 501- MJM	व्यावहारिक व उपयोजित मराठी -I	Language Skill मुद्रित शोधन	Multi Language Skills प्रमाणलेखन	Regional Language Skills मुलाखत लेखन	Job Opportunities मुलाखतकार, मुद्रितशोधक	PO4:Disciplinary Knowledge : PSO. भाषेचे विविध व्यवहार आणि साहित्याच्या संदर्भातील भाषा व्यवहार याविषयीची आकलनाची क्षमता विकसित होईल. CO- व्यवहारिक व उपयोजित भाषेची ओळख होईल तसेच कौशल्य विकसित होतील.
M. A. I Sem.I	MAR - 502- MJM	मध्ययुगीन मराठी वाङ्मयाचा इतिहास	Literature Skill वाङ्मयाचा इतिहास	Literature Knowledge Skill विविध वाङ्मय प्रकार	Regional Language Skills विविध वाङ्मय वाटचाल	Job Opportunity लेखक	PO1 Research-Related Skills: pso- विशिष्ट कालखंडातील





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		(प्रारंभ ते इ.स. १६००)					साहित्याच्या अभ्यासाच्या व्याप्ती बद्दल विद्यार्थ्यांची जाण वाढीस लागण्यास मदत होईल. CO- मराठी भाषेची उत्पत्ती विकास व स्थित्यंतराची ओळख होईल.
M. A. I Sem.I	MAR - 503- MJM	भाषाविज्ञान: वर्णनात्मक	Language Skills स्वन विज्ञान	Multi Language Skills अर्थाचे विविध प्रकार	Regional Language Skills स्वनिम निश्चितीची तत्वे	Translators बहुभाषिक	PO1 Research-Related Skills: pso- विद्यार्थ्यांची भाषिक अभिव्यक्ती सुधारण्यास तसेच पर्यायाने समाजाची भाषिक अभिवृद्धी विकसित होण्याची प्रक्रिया सुरू होईल. CO- विद्यार्थ्यांना शास्त्रीय दृष्ट्या भाषेचा परिचय होईल.
M. A. I Sem.I	MAR - 504- MJM	वृत्तपत्र संपादन	Language Skill ग्रामीण कथा	Multi Language विविध बोलींचा अभ्यास	Social & Regional Language Skills सामाजिक बांधिलकी	Author ग्रामीण लेखकांचा अभ्यास	PO3: Social competence: pso- लेखकाच्या समग्र लेखक म्हणून अभ्यासाची जाण विकसित होईल तसेच विविध साहित्य प्रवाहांची माहिती होईल व अशा अभ्यासाच्या





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							आकलनक्षमतेत वाढ होईल. CO-ग्रामीण कथा कादंबरी व साहित्याचे आकलन होईल.
M. A. I Sem.II	MAR - 551-MJM	व्यावहारिक व उपयोजित मराठी -II	Language Skill निवेदन कौशल्य	Multi Language Skills भाषांतर	Language Skills Print, Radio & Television Media Etc. skills अनुवादक	Language Based Job Opportunities जनसंपर्क अधिकारी	PO5: Personal and professional competence: pso-लेखन-संपादन, लेखनविद्या -, भाषांतर, रूपांतर, अनुवाद, वक्तृत्व कला, नाट्यकला, या अभिव्यक्तीच्या आविष्कार प्रकार व प्रक्रियांविषयी तसेच त्यासंबंधीची माहिती होईल. CO-भाषेच्या माध्यमातून चालणाऱ्या व्यवसायाची ओळख होईल.
M. A. I Sem.II	MAR - 552-MJM	मध्ययुगीन मराठी वाङ्मयाचा इतिहास (इ.स. १	Language Skill कथा कादंबरी नाटक चरित्र	Multi Language Skills विविध वाङ्मयाचा परिचय	Literature Development Skills साहित्य प्रकार, वाटचाल, आलेख	Language Based Job Opportunities समीक्षक	Po1 Research-Related Skills: pso-साहित्याविषयीची प्राचीन, मध्ययुगीन, आधुनिक, भारतीय





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		६०० ते इ.स.१ ८१८)					व पाश्चात्य विचारांबाबत समज वाढविण्यास मदत होईल. CO-मराठी वाङ्मयाची ऐतिहासिक सामाजिक धार्मिक आणि राजकीय पार्श्वभूमी लक्षात येईल.
M. A. I Sem.II	MAR - 553- MJM	भाषा विज्ञान: सामाजिक	Language Skills सामाजिक बोली	Multi Language Skills समाज आणि मानसशास्त्र	Regional Language Skills स्त्रियांची भाषा पुरुषांची भाषा	Translators बहुभाषिक	PO3: Social competence: pso-भाषेचे विविध व्यवहार आणि साहित्याच्या व समाजाच्या संदर्भातील भाषा व्यवहार याविषयीची आकलनाची क्षमता विकसित होईल. CO- भाषा आणि समाज यांचा परस्पर संबंध लक्षात येईल.
M. A. I Sem.II	MAR - 554- MJM	कथाले खन निर्मिती व स्वरूप	Language Skill दलित कथा	Multi Language Skills दलित कविता	Social & Regional Language Skills दलित आत्मकथन	Language Based Job Opportunities विश्लेषक	PO8: Critical Thinking and Problem solving: pso - एक जबाबदार नागरिक या दृष्टीने नैतिक व सामाजिक मूल्ये,





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							साहित्य व सांस्कृतिक मूल्ये, राष्ट्रीय मूल्यांचे संवर्धन व समाजभान याविषयीची विद्यार्थ्यांची जाणीव विकसित होईल. CO- दलित साहित्य स्वरूप संकल्पनांचा परिचय होईल.
M. A. II Sem. II I	PAMR2 31	प्रसारमाध्यमे आणि साहित्य व्यवहार	Language Skill वृत्तपत्रातील भाषा	Multi Language Skills चित्रपटातील भाषा	Social & Regional Language Skills समाज माध्यम मधील भाषा	Language Based Job Opportunities संपादक, दिग्दर्शक	PO8: Critical Thinking and Problem solving: psd-वाड्मयीन व सामाजिक प्रश्नांसंबंधी विचार करण्याची जाण वाढीस लागेल. CO-विद्यार्थ्यांना मराठीतील वैचारिक साहित्याची ओळख होईल.
M. A. II Sem. II I	PAMR2 32	साहित्य समीक्षा	Language Skill समीक्षकाचे गुण	Multi Language Skills समीक्षकाचे पथे	Social & Regional Language Skills समीक्षेच्या विविध पद्धती	Language Based Job Opportunities समीक्षक विचारवंत	PO3: Social competence and communication skills: PSO. विद्यार्थ्यांची भाषिक अभिव्यक्ती





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							सुधारण्यास तसेच पर्यायाने समाजाची भाषिक अभिवृद्धी विकसित होण्याची प्रक्रिया सुरु होईल. CO-समाजामध्ये प्रभावीपणे भाषा वापर करण्यास शिकतील.
M. A. II Sem.II I	PAMR2 33	विशेष लेखकाचा अभ्यास - मध्ययुगीन	Language Skill लेखन शैली	Multi Language Skills लेखकाची जडणघडण	Social & Regional Language Skills लेखकाची सामाजिकता सांस्कृतिक परिप्रेक्ष	Language Based Job Opportunities जीवन विषयक दृष्टिकोन	PO5: Personal and professional competence: pso-लेखन-संपादन, लेखन - विद्या, भाषांतर, रूपांतर, अनुवाद, वक्तृत्व कला, नाट्यकला, या अभिव्यक्तीच्या आविष्कार प्रकार व प्रक्रियांविषयी तसेच त्यासंबंधीची माहिती होईल. CO- दृक-श्राव्य माध्यमांसाठी लेखन करण्याची क्षमता विकसित होते .
M. A. II Sem.II I	PAMR2 34	वैचारिक साहित्य	Language Skill वैचारिक लेखक	Multi Language Skills संत पंत तंत परंपरा	Social & Regional Language Skills निर्मिती मागील प्रेरणा व प्रवृत्ती	Language Based Job Opportunities प्रवचनकार	P O 1 : R e





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							S e a r c h R e l a t e d S k i l l s : pso-विद्यार्थ्यांची संशोधक वृत्ती व संशोधन करण्याची क्षमता विकसित होईल. co- la'kks/ku dj.;kph n''Vh o {kerk fodflr करता येईल.
M. A. II Sem.II I	PAMR SEC-1	भाषा आवि ष्काराची रूपे	Language Skills भाषिक कौशल्य	Multi Languag e Skills लेखन कौशल्य	Regional Language Skills संकलन	सादारीकरण कौशल्य	PO2: Effective Citizenship and Ethics: pso- लेखकाच्या समग्र लेखक म्हणून अभ्यासाची जाण





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							विकसित होईल तसेच विविध साहित्य प्रवाहांची माहिती होईल व अशा अभ्यासाच्या आकलनक्षमतेत वाढ होईल. CO- लेखकाचा लेखन प्रवास जाणून घेतल्यामुळे विद्यार्थ्यांना वाङ्मयीन निर्मितीची आणि आस्वादाची प्रेरणा मिळेल.
M. A. II Sem. II I	PAMR SEC-1	कथा लेखन कौशल्ये	Language Skills भाषिक कौशल्य	Multi Language Skills लेखन कौशल्य	Regional Language Skills संकलन	सादारीकरण कौशल्य	
M. A. II Sem IV	PAMR2 41	प्रसारमाध्यमे आणि साहित्य व्यवहार	Language Skill लेखकाची सामाजिकता	Multi Language Skills सामाजिक बांधिलकी	Social & Regional Language Skills लेखक वाचक आणि भाषा सहसंबंध	Language Based Job Opportunities संशोधक	PO2: Effective Citizenship and Ethics: pso-एक जबाबदार नागरिक या दृष्टीने नैतिक व सामाजिक मूल्ये, साहित्य व सांस्कृतिक मूल्ये, राष्ट्रीय मूल्यांचे संवर्धन पर्यावरण संरक्षण व संवर्धन, समाजभान याविषयीची विद्यार्थ्यांची जाणीव विकसित होईल.





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							CO-विद्यार्थ्यांना मराठीतील साहित्याचे सामाजिक स्वरूप लक्षात येईल
M. A. II Sem IV	PAMR2 42	साहित्य संशोधन	Language Skill संशोधकाचे गुण	Multi Language Skills संशोधन परंपरा	Social & Regional Language Skills अंतर्विद्या क्षेत्रीय संशोधन	Language Based Job Opportunities संशोधक	PO6: Self-directed and Life-long learning: PSO. विद्यार्थ्यांची भाषिक अभिव्यक्ती सुधारण्यास तसेच पर्यायाने समाजाची भाषिक अभिवृद्धी विकसित होण्याची प्रक्रिया सुरू होईल. CO-समाजामध्ये प्रभावीपणे भाषा वापर करण्यास शिकतील.
M. A. II Sem IV	PAMR2 43	विशेष लेखकाचा अभ्यास - मध्ययुगीन	Language Skill वैचारिक लेखक	Multi Language Skills संत पंत तंत परंपरा	Social & Regional Language Skills निर्मिती मागील प्रेरणा व प्रवृत्ती	Language Based Job Opportunities प्रवचनकार	PO8: Critical Thinking and Problem solving: pso-वाङ्मयीन व सामाजिक प्रश्नांसंबंधी विचार करण्याची जाण वाढीस लागेल. CO-विद्यार्थ्यांना मराठीतील वैचारिक साहित्याची ओळख होईल.





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M. A. II Sem IV	PAMR2 44	साहित्या चा सामाजिक दृष्टीने अभ्यास	Language Skill लेखकाची सामाजिकता	Multi Language Skills सामाजिक बांधिलकी	Social & Regional Language Skills लेखक वाचक आणि भाषा सहसंबंध	Language Based Job Opportunities संशोधक	PO2: Effective Citizenship and Ethics: ps0-एक जबाबदार नागरिक या दृष्टीने नैतिक व सामाजिक मूल्ये, साहित्य व सांस्कृतिक मूल्ये, राष्ट्रीय मूल्यांचे संवर्धन पर्यावरण संरक्षण व संवर्धन, समाजभान याविषयीची विद्यार्थ्यांची जाणीव विकसित होईल. CO-विद्यार्थ्यांना मराठीतील साहित्याचे सामाजिक स्वरूप लक्षात येईल
M. A. II Sem IV	PAMR SEC-2	भाषा आवि ष्काराची रूपे	Language Skills भाषिक कौशल्य	Multi Language Skills लेखन कौशल्य	Regional Language Skills संकलन	Translators	PO8: Critical Thinking and Problem solving: PSO. भाषेचे विविध व्यवहार आणि साहित्याच्या संदर्भातील भाषा व्यवहार याविषयीची आकलनाची क्षमता विकसित होईल.





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							co- विद्यार्थ्यांची चिकित्सक अभ्यासाची क्षमता विकसित होईल.
M. A. II Sem IV	PAMR SEC-2	कथा लेखन कौशल्ये	Language Skills भाषिक कौशल्य	Multi Language Skills लेखन कौशल्य	Regional Language Skills संकलन	Translators संवादक	PO2: Effective Citizenship and Ethics:
M. A. II Sem IV	PR-1	Project-1	शिस्तबद्ध लेखन	मुद्देसुद्धपणा	स्थानिक गरज	संशोधक	PO8: Critical Thinking and Problem solving: PSO. भाषेचे विविध व्यवहार आणि साहित्याच्या संदर्भातील भाषा व्यवहार याविषयीची आकलनाची क्षमता विकसित होईल. co- विद्यार्थ्यांची चिकित्सक अभ्यासाची क्षमता विकसित होईल.





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PHILOSOPHY & LOGIC

Programme	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
			Local	National	Regional	Global	
BA Philosophy & Logic (UG)	PHI- 101- MJM	Introduction to Philosophy	Value of philosophy, Definition of knowledge	Value of philosophy, Definition of knowledge, Introduction to nine Darsanas	Value of philosophy, Introduction to nine Darsanas	Value of philosophy, Definition of knowledge, Introduction to nine Darsanas	PO1: Academic Competence: Explore various branches of Philosophy and their interrelations CO1: The study of Philosophy helps the





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2019 - 2024

							students to get acquainted with different schools of Indian philosophy CO2: Students learn new technical terminologies.
PHI-102-MJM	ANCIENT INDIAN PHILOSOPHY-VEDIC & NON-	Non-Vedic :- Nature and Characteristics	Non-Vedic :- Nature and Characteristics	Buddhism : Four Noble Truth	Buddhism : Four Noble Truth	PO1 Research-Related Skills: CO2 (Comprehend the diverse	





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		VEDIC					trends in Ancient Indian Philosophical thought) and CO4 (Identify the components of Vedic literature and trace the development of Vedic Philosophy from Samhitas to Upanishads) contribute to research-related skills by requiring students to explore and understand the evolution of philosophical thought in ancient Indian
	PHI-116-	TRADITIONAL		Proposition & Sentences	Proposition & Sentences		PO6 Self-directed and





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	OE	LOGIC: SYLLOGI STIC REASONI NG					Life-long Learning: <i>CO1 (Identifying valid arguments):</i> Engaging in independent and life-long learning requires critical thinking and the ability to discern valid arguments from invalid ones. <i>CO6.</i> Evaluate arguments to identify errors in reasoning
	PHI-117-OE	PHILOSOPHY OF RELIGION	Purushartaha	Purushartaha	Difference between Philosophy and Theology, Revelation and	Difference between Philosophy and Theology, Revelation and	PO4 Disciplinary Knowledge <i>CO1.</i> Describe the main





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					Faith	Faith	arguments for and against the main positions in the Philosophy of Religion. CO4. Assess the role of the concept of God in Religion as a practice and various religious doctrines.
PHI-121-VSC	YOG PHILOSOPHY	Ashtanga Yoga	Ashtanga Yoga	Ashtanga Yoga	Ashtanga Yoga	Ashtanga Yoga	(PO) 5: Personal and Professional Competence CO4. To develop a culture of appreciating the traditional method to develop the ability to do





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							self-managemen t CO5. Improve physical conditionin g related to flexibility through participatio n in Patanjali Yoga. CO6. Aspirational Goals: Recognize and apply the value and benefits of an on-going yoga practice.
	PHI-126-SEC	LOGICAL REASONING	Inductive and Deductive Inference	Inductive and Deductive Inference	Inductive and Deductive Inference		PO6 - Self-directed and Life-long Learning CO5. Analyse the strengths and weaknesses of these positions





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							and critically assess these arguments CO6. The student will be well equipped with the skills relating to formal and non-formal reasoning.
PHI-135-VEC	VALUES IN PRACTICAL LIFE	Relationa l Theory	Relationa l Theory	Classifica tion of Values: Social Values, Mental values and religious value, Indian Concept of values	Classifica tion of Values: Social Values, Mental values and religious value, Indian Concept of values	CO1. Students will know the various values. CO2. Students will be able to differentiate between good and bad values. CO3. They know the	





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							Indian value system.
PHI-137-IKS		ANCIENT INDIAN PHILOSOPHICAL KNOWLEDGE	Sarva-dharma-sambhav.	Sarva-dharma-sambhav.	Ayurved, Vastusastra and Vedic Mathematics	Ayurved, Vastusastra and Vedic Mathematics	PO1 Critical Thinking and Problem-solving: PO2 Research-Related Skills CO1. They will relate Spirituality and Religions. CO2. Students will be capable of knowing in detail about Ancient Indian Sciences.
PHI-151-MJM							PO1: Entrepreneurial and Social Competence : Apply ethical





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		Moral Philosophy	Areas of Ethics	Areas of Ethics	Areas of Ethics	Areas of Ethics	theories and principles in real life situations. CO1: Studies ethics theoretically and on a large scale. This helps students to judge our day-to-day practical issues quite reasonably. CO2: To rise social awareness
PHI-152-MJM	WESTERN PHILOSOPHY- THE PRESOCRATICS, SOPHISTS & SOCRATES	Thales (Water)	Thales (Water)	Socrates (Dialectical Method)	Socrates (Dialectical Method)	Research-Related Skills CO4 (Program): Apply the Socratic method in the Philosophical discourse. CO5 (Program): Understand	





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							use and assess the strength and weakness of Philosophical theories. CO6 (Program): Engage in conceptual and historical analysis of ideas and theories. CO7 (Program): Critically appraise Greek philosophical theories.
PHI-161-MN	Social Philosophy	Feminism: Gender as a construct	Feminism: Gender as a construct	Class discrimination – Marx	Class discrimination – Marx	PO5 Personal and Professional Competence: CO4	





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							(Program): To know the rights of individuals and communities. CO5 (Program): To learn to live in a cohesive manner in a multicultural setup. CO6 (Program): Students should be able to identify and evaluate arguments, both in written texts and in real-life situations.
PHI-166-OE	Logic and its Application	Implication, Disjunction, Conjunction	Implication, Disjunction, Conjunction	Nature and Definition of set	Nature and Definition of set	PO4 Disciplinary Knowledge CO1	





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			on, Equivalen ce and Negation	on, Equivalen ce and Negation			(Program): Understand the foundational concepts in logic. CO2 (Program): Understand the relation between Logic and Natural Science. CO3 (Program): Understand the difference between argument and argument form. CO4 (Program): Analyse the nature and definition of a set. CO5 (Program): Identify the relation between
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							Logic and Mathematics
PHI-167-OE	Philosophy of Religion (Advanced)	Classification of Religion-Tribal, National and Universal religion.	Classification of Religion-Tribal, National and Universal religion.	Morality and Science	Morality and Science		PO2 Effective Citizenship and Ethics CO3 (Program): They will learn to think critically about religious issues. CO7 (Program): The students will acquire a general understanding of religious issues
PHI-171-VSC	Applied Yoga	Karmayoga, Bhaktiyoga.	Karmayoga, Bhaktiyoga.	Meditation	Meditation		PO4 Disciplinary Knowledge PO3 Social Competence





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								e CO1 (Course): To introduce students with the concepts of Yoga. CO2 (Course): To acquire a basic understandi ng of Yoga CO6 (Course): To enhance students' ability to prepare for Human Life. CO7 (Course): Develop and maintain a personal yoga practice
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	PHI-176-SEC	PHILOSOPHICAL COUNSELLING	Socrates Method	Socrates Method	Logical Reasoning and type of Reasoning	<p>PO8 Critical Thinking and Problem Solving CO3 (Course): Learn to apply philosophical concepts for overcoming problems in life like stress, family issues, love life, work-life balance, loss of dear ones.</p> <p>CO5 (Course): Analyze the strengths and weaknesses of these positions and critically</p>
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							assess these arguments. CO6 (Course): The student will be well equipped with the skills relating to formal and non-formal reasoning.
LOG-161-MN	Scientific Method	Principle of Causality	Principle of Causality	observation and experiment	observation and experiment	(PO5) - Personal and Professional Competence CO4: Students should have acquired practical research skills.	





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	UAP H231	Philosophy of Indian Saints	Conception of a Saint	Conception of a Saint	Conception of a Saint	Conception of a Saint	CO1: Enhances critical thinking of students CO2: Understand key Philosophical foundation of the Saints intellectual tradition, particularly insofar the tradition has addressed issues of basic Philosophy. CO3: To acquaint the student with the metaphysica





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							l, Stereologica l and social approaches of selected saints.
UAP H232	Indian & Western Philosophy	Carvaka Philosophy	Theory of Forms	Carvaka Philosophy	Theory of Forms	PO1:Academic Competence : (i) Know core issues, problems and concerns in both Indian and Western traditions. (ii) Develop the skills for oral and written communication with special reference to the quality and organisation of the content CO1: The study of Philosophy	





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							<p>helps the students to get acquainted with different schools of Indian philosophy like Cārvāka, Jainism and Buddhism as Nāstika schools on the other hand, Sāṃkhya, Yoga, Nyāya, Vaiśeṣika, Mīmāṃsā and Vedānta as Āstika school, on the other hand</p> <p>CO2: Know core issues, problems and concerns in both Indian</p>
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							and Western traditions. CO3: To teach students the Importance of Moral Behavior and Familiarise them with the resolution of Value conflicts in today's life.
	UAP H233	Jain Philosophy	Historical Development of Jainism	Nature of Anekanta vada	Nature of Anekanta vada	Six Dravyas (Jiva, Pudgal, Dharma, Adharma, Akasa, Kala)	PO1: Entrepreneurial and Social Competence : Identify ethically relevant issues in contemporary life and to deliberate over them CO1: Learn to use Jain





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							Philosophical theories to analyse situations and inform Judgments about Actions. CO2: Comprehend the theory of reality of the systems of Jain philosophy
UAP HSE C-1	Philosophical Counselling	Socrates Method	Socrates Method	Logical Reasoning and type of Reasoning			PO8 Critical Thinking and Problem Solving CO3 (Course): Learn to apply philosophical concepts for overcoming





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							<p>problems in life like stress, family issues, love life, work-life balance, loss of dear ones.</p> <p>CO5 (Course): Analyze the strengths and weaknesses of these positions and critically assess these arguments.</p> <p>CO6 (Course): The student will be well equipped with the skills relating to formal and non-formal reasoning.</p>
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	UAL O231	Symbolic Logic	Symbolic Logic	Symbolic Logic	Symbolic Logic	Symbolic Logic	<p>PO1: Personal and Professional Competence: Process information in a logically consistent manner so as to come up with their own position about a certain topic.</p> <p>CO1: Students get acquainted with the use of logical rules for identifying a valid argument. Along with these, they also learn existential import,</p>
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							<p>symbolic interpretation, constructing formal proof of validity, proving invalidity, Quantification theory</p> <p>CO2: Studies of logic improve the analytical skills and knowledge of the formal techniques of evaluating arguments and deductive.</p> <p>CO3: One learns to validate both knowledge gained and the sources of</p>
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							knowledge through various prescribed means.
UAP H241	Philosophy of Indian Saints	Conception of God	Significance of Pasaydan	Conception of God	Significance of Pasaydan	CO1: Enhances critical thinking of students CO2: To acquaint the student with the metaphysical, Stereological and social approaches of selected saints	
UAP H242	Indian & Western Philosophy	Four noble truths	Four noble truths	Four noble truths	Four noble truths	CO1: Students get acquainted with the epistemological and metaphysical theories of the western philosophers like	





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							<p>Socrates, Plato, Descartes, Spinoza, Leibnitz , Locke, Berkeley Hume and Kant.</p> <p>CO2: Know core issues, problems and concerns in both Indian and Western traditions.</p>
UAP H243	Jain Philosophy	Jain Dhyan and Yoga	Jain Dhyan and Yoga	Jain Dhyan and Yoga	Jain Dhyan and Yoga	Jain Dhyan and Yoga	<p>CO1: Learn to use Jain Philosophical theories to analyse situations and inform Judgments about Actions.</p> <p>CO2: Comprehend the theory of reality of the systems</p>





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							of Jain philosophy PO1:Entrepreneurial and Social Competence: Develop an open minded approach and an attitude of respect for diverse opinions
UAP HSE C-2	Ethics in Human Life	Relational Theory	Relational Theory	Classification of Values: Social Values, Mental values and religious value, Indian Concept of values	Classification of Values: Social Values, Mental values and religious value, Indian Concept of values	CO1. Students will know the various values. CO2. Students will be able to differentiate between good and bad values. CO3. They know the	





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							Indian value system.
	UAL O241	Symbolic Logic	Predicate Logic	Predicate Logic		Relationa l Logic	PO1: Research Competence: Logically assess the arguments with reference to their comparative strengths and weaknesses. CO1: Students get acquainted with the use of logical rules for identifying a valid argument. Along with these, they also learn existential import,





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							symbolic interpretation, constructing formal proof of validity, proving invalidity, Quantification theory
			Thoughts about Shudras and Women	Sarvoday	Thoughts about Shudras and Women	Sarvoday	CO1: Become effective writers, including writers of





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	PHIL3 501	Modern Indian Philosopher			Thoughts about Education	Thoughts about Education	high-quality academic prose. CO2: They also study the basic concepts of society, nature and role of family in society and different theories regarding the relation between individual and society. They also learn about secularism, nature and progress of Social changes, different theories of social changes, discussion about different
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							political ideals
	PHIL3 601	Modern Indian Philosopher	A Mysticis m as a Method	A Mysticis m as a Method	Democra cy	Democra cy	CO1: Become effective writers, including writers of high-quality academic prose. CO2: Helps students to love human being only without seeing their caste, creed, religion, etc. CO3: Studies the philosophy of great Indian leaders like Radhakrish nan, Rabindranat h Tagore, Iqbal,





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							Ambedkar, etc
	PHIL3 502	Indian & Western Philosophy	Nyaya Darshan, Vaisheshik Darshan, Shankara charya's Darshan, Ramanuja charya's & madhavac harya's Darshan	Nyaya Darshan, Vaisheshik Darshan, Shankara charya's Darshan, Ramanuja charya's & madhavac harya's Darshan	Nyaya Darshan, Vaisheshik Darshan, Shankara charya's Darshan, Ramanuja charya's & madhavac harya's Darshan	Nyaya Darshan, Vaisheshik Darshan, Shankara charya's Darshan, Ramanuja charya's & madhavac harya's Darshan	PO1: Academic Competence: (i) Know core issues, problems and concerns in both Indian and Western traditions. (ii) Develop the skills for oral and written communication with special reference to the quality and organisation of the content. CO1: The study of Philosophy helps the students to





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							<p>get acquainted with different schools of Indian philosophy like Cārvāka, Jainism and Buddhism as Nāstika schools on the other hand, Sāṃkhya, Yoga, Nyāya, Vaiśeṣika, Mimāṃsā and Vedānta as Āstika school, on the other hand</p> <p>CO2: To teach students the Importance of Moral Behavior and Familiarise</p>
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							them with resolution of Value conflicts in today life
	PHIL3 602	Indian & Western Philosophy	Locke, Berkeley Hume and Kant.	Locke, Berkeley Hume and Kant.	Locke, Berkeley Hume and Kant.	Locke, Berkeley Hume and Kant.	PO1: Research Competence: (i) Critically evaluate approaches, theories, positions, norms, values. (ii) Analyse concepts and to trace their historical development. CO1: Students get acquainted with the epistemological and metaphysical theories of the western philosopher





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							<p>s like Socrates, Plato, Descartes, Spinoza, Leibnitz , Locke, Berkeley Hume and Kant.</p> <p>CO2: To introduce Ancient and Medieval Greek Philosophy as an academic discipline to students.</p>
PHIL3 503	Jain Philosophy	Jain Sects and Their Philosophy	Jain Sects and Their Philosophy	Introspection of Jains	Introspection of Jains	CO1: Learn to use Jain Philosophical theories to analyse situations and inform Judgments about Actions.	CO2: Comprehen





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							d the theory of reality of the systems of Jain philosophy
PHIL3603	Jain Philosophy	Meditation	Meditation	Seven Principles	Meditation	PO1: Research Competence: (i) Critically evaluate approaches, theories, positions, norms, values. (ii) Analyse concepts and to trace their historical development. CO1: Learn to use Jain Philosophical theories to analyse situations and inform Judgments	





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							about Actions. CO2: Comprehend the theory of reality of the systems of Jain philosophy
LOG3501	LOGIC: Methodology of Social Science	Values and Science	Values and Science	Values and Science	Values and Science	Values and Science	PO1: Research Competence: Critically evaluate approaches, theories, positions, norms, values CO1: Process information in a logically consistent manner so as to come up with their own position about a





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							certain topic. CO2: To apply knowledge to new situations to solve problems using required knowledge or skills.
LOG3601	LOGIC: Methodology of Social Science	Research Methodology	Research Methodology	Research Methodology	Research Methodology	Research Methodology	CO1: Seeks opportunity for research and higher academic achievements in the chosen field and allied subjects and is aware about research ethics, intellectual property rights and issues of





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							<p>plagiarism. Demonstrate a sense of inquiry and capability for asking relevant/appropriate questions; ability to plan, execute and report the results of a research project be it in field or otherwise under supervision.</p> <p>CO2: Process information in a logically consistent manner so as to come up with their own position about a</p>
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							<p>certain topic.</p> <p>CO3: To create something, to integrate ideas into a solution, to propose an action plan, to formulate a new classification scheme</p>
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SANSKRIT

Progr amme	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
			Local	National	Regional	Global	
BA Sanskri t (UG)	SAN- 116-OE	SELF MANAGE MENT AND BHAGAV ADGITA - I				2.1 Nature of Conflict	CO3 Link the connectio n between Ancient Indian Thoughts on Psycholog y & its relevance with modern lifestyle CO4. Develop strategies for Mind Control PSO2. Social Competen ce: Utilise the knowledg e to tackle the hurdles in





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Cycle IV

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							this journey of life
	SAN-117-OE	SELF MANAGEMENT AND BHAGAVADGITA – II			1.3 Diet Control	1.4 Physical and Mental Discipline	CO5. Recognize the impact of dietary habits on mental clarity and stability. CO6. Demonstrate proficiency in meditation techniques as outlined in Bhagavad Gita PSO8. Management Skills: Understand and apply management





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							ent principles to their work, functioning effectively as individuals and as members or leaders in diverse, multidisciplinary teams.
UASA231	SANSKRIT PARICHAY – 1	2.3 Krushiparashara Granthatil Nivadak Adhyay			1.4 Koshavanmay	CO6	Explore the intersection of modern science and Sanskrit by studying relevant chapters from scientific texts





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							CO7 Develop proficiency in Sanskrit research methodologies PSO1. Research-Related Skills: Develop interdisciplinary research aptitude and independent thinking.
	SANGE N3501	SANSKRIT BHASHA PRABODH – 1	2.1 Selections from Vainayakam aani Bhimayanam	2.2 Aihole Bhattilekh 2.3 Mathura Stabhalekh	Unit 1: Arsha Mahakavyanacha Parichay		CO2 Analyze selected verses from 'Ramayana' CO3 Read Ancient





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							Inscriptions CO6 Gain the comprehensive knowledge about Modern Sanskrit Literature CO7 Acquire Overview of Ancient Sanskrit Epics PSO6. Human Perception and Behaviour : Learning Texts to understand human perception and behaviour is essential to
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							improve decision making process. PSO7. Effective Citizenship: Exhibit empathetic social concern, an equity-centered approach to national development, and actively engage in civic life through volunteering.
SAN-166-OE	SANSKRIT ANTRAN G			1.2 Vedic Sahitya		1.1 Sanskrit Bhashecha Itihas	CO1. Demonstrate a sound understanding of the historical evolution





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							<p>of Sanskrit, its script, and pronunciation patterns.</p> <p>CO2. Appreciate the significance of Vedic literature and recognize its cultural and literary importance.</p> <p>PSO3. Disciplinary Knowledge: Demonstrate a blend of traditional knowledge along</p>
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							with its application in the modern lifestyle.
	SAN-167-OE	PRACHIN BHARATIYA GANITSHASTRA PARICHAY			Unit 2- Leelavati Granthabhyas	Unit 3- Sadyakalin Aadhava	CO3. Develop critical thinking skills in the context of Ancient Indian Mathematics. CO7. Demonstrate proficiency in understanding and applying mathematical content from the





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							<p>Trairashik and Panchrashik sections of Leelavati.</p> <p>PSO1. Research-Related Skills: Develop inter-disciplinary research aptitude and independent thinking.</p> <p>PSO3. Disciplinary Knowledge: Demonstrate a blend of traditional knowledge along with its</p>
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							applicatio n in the modern lifestyle.
	SAN- 161-MN	SANSKRI T BHASHA PRAVESH A	Unit 1- Sanskrit Bhashec ha Parichay			2.4 Subhashit sangrah	CO3. Read Sanskrit texts fluently, showcasin g their ability to comprehe nd and interpret prescribed textbooks and narrative literature. CO4 Communi cate in spoken Sanskrit for daily interactio ns and practical usage. CO5 Interpret





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							and analyse selected Sanskrit literary works including Nirvana Shatkam, Singhasha saka Katha, Gautamas ya Chaturya m, and Subhashit as. PSO11. Identificat ion of critical problems and issues: Detection and identificat ion of the critical problems and spatial
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							issues are essential for sustainable development.
	UASA241	SANSKRIT PARICHAY - 2	Unit 3 Upayojit Sanskrit		2.3 Dakalab dhi		CO6 Gain insights into ancient indian technique of finding underground water source CO7 Acquire proficiency in writing Sanskrit through the practice of letter writing (Patralekhan) and dialogue composition





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							(Samvada lekhan) PSO1. Research- Related Skills: Develop inter- disciplina ry research aptitude and independe nt thinking.
	SANGE N3601	SANSKRI T BHASHA PRABOD H – 2	1.3 Aadhuni k Sanskrit Natak	Unit 2 Hastalikhits hastracha Parichay			CO3 - Explore Modern Sanskrit Theatre CO4 - Introducti on to Sanskrit Palaeogra phy PSO.9 Ethics: Recogniz e different value





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							systems, including their own, understand the moral dimensions of their decisions, and take responsibility for their actions.
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SOCIOLOGY

Programme	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
			Local	National	Regional	Global	
F.Y.B.A	SOC-101-MJM SOC-102-MJM	Introduction to Sociology	Sociology as a Science	Culture and Socialization	Social Stratification and Mobility	Social Control	COs: 1 Student will be able to explain social facts and society related concepts. COs: 2 Student will be able to define and explain sociological concepts. COs: 3 Student will be able to define and show social fact. COs: 4 Student will be able to express empirical observations with sociological concepts. Pos: 1 Student will be able to learn how





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							to study the society scientifically. Pos: 2 Student will be able to understand how the tools of analysis and methods of sociology are applicable to work and involvement in their community.
S.Y.B.A	UASO 233	Indian Society : Issues and Problems	Caste and Gender	Problems of Minorities	Problems of Youth	Old Age Problems	COs: 1 Students are able to understand social issues and are empowered to face social problems.





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							COs: 2 Students are able to understand changing nature of social problems in India. Pos: 1 Students are able to analyze social issues and problems using different sociological perspectives.
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	UASO 232	Foundati on of Sociologi cal Thought	Dominant Caste	Sanskritiz ation	Theory of Class Strugle	Indology	COs: 1 Students are familiarize d with social, political, economical and intellectual contexts of emergence of Sociology. COs: 2 Students are able to understan d social thoughts. Pos: 1 Students are familiarized with major perspective s and works of some Indian sociologists
	UASO 231	Populatio n and Society	Fertility and Mortality	populatio n and poverty	Nature and character istics of Indian populatio n	Migration	COs: 1 Students are able to understand the nature, scope and concepts related to





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							population studies. COs: 2 Students are able to critically analyze the theoretical perspective of population studies. Pos: 1 Students are able to evaluate the population policy and population profile of India.
T.Y.B.A	SOC3 501	Crime and Society	Crime against SC,ST,DT NT	Cyber Crime	White Collar Crime	Crime against Women	COs: 1 Acquire a broad understanding of the theoretical and empirical approaches taken to understand the relationship between criminal behavior





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							and social, cultural, and institutional forces. COs: 2 Learn about the current state of knowledge regarding social variation crime and reactions to crime and the social consequences of this variation. COs: 3 Critically analyze the conceptual and empirical underpinning of research on the above topics. Pos: 1 Identify
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							significant new research questions related to the study of crime in society.
	SOC3 503	Contemporary Indian Society	Changing nature of marriage, family and household	Economic Development	Agriculture in Post Independence India	Debates around lesbian, gay, bisexual, transgender & queer (LGBTQ)	COs: 1 Students are able to provide an Introduction of Social Structure & Social Change. COs: 2 Students are able to understand the building of modern India as a nation in its complete complexity. Pos: 1 Comprehend the historical context to the current socio-





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							economic trends and problems confronted by Contemporary India.
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PSYCHOLOGY

Progr amme	Cou rse Cod e	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
			Local	Nation al	Regional	Global	
.B.A Psych ology (UG)	UAP S111	General Psycholog y-I	Sensation and Attention	Importa nce of Health	Stages of Sleep	Nervous System	CO1: Students will be able to understan d the basic psycholo gical processes and their applicati ons in day to day life. PO4:Dis ciplinary Knowled ge: Demonst rate a blend of conventi onal discipline knowled ge and its applicati ons to the modern World. Execute





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							strong theoretic al and practical understanding generated from the chosen program me.
UAP S 121	General Psychology-II	Types of Learning	Assessment of Personality	Distortions of Memory	Importance of Artificial intelligence		<p>CO4 : Students will be able to understand the personality and intelligence of the individuals by developing their psychological processes and abstract potentials .</p> <p>PO5: Personal and Professional competence:</p>





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							Equip with strong work attitudes and professional skills that will enable them to work independently as well as collaboratively in a team environment.
B.A Psychology (UG)	PSY 2301	Social Psychology-I	Applications Family, Law, Health and Industry	Leadership and its Style	Group Decision Making	Attitudes and Prejudice	CO3: Developing problem analysis skills and knowledge and applying the same in social life situation. PO8: Critical





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							Thinkin g and Problem solving : Exhibit the skill of critical thinking and use higher order cognitive skills to approach problems situated in their social environm ent ,propose feasible solutions and help in its impleme ntations
PSY 2302	Abnormal Psycholog y-I	Generaliz ed Anxiety Disorder	DSM-5 and ICD-11	Types of Depressi on	Coping Stress	with	CO2 : Students will acquire the knowled ge about the causes, symptom s and treatment





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							s of various types of psychological disorders.
							PO4: Disciplinary Knowledge: Demonstrate a blend of conventional discipline knowledge and its applications to the modern World. Execute strong theoretical and practical understanding generated from the chosen programme.
	PSY 2303	Growth and Development	Infancy	Health and Illness	Components Development	Genes and Chromosomes	CO1 : Students know





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		nt Psycholog y-I			ment of language		the basic concepts of human. develop ment processes PO6: Self – directed and Life- long learning : Acquire the ability to engage in independ ent and life – long learning in the broadest context of socio- technolo gical change.
	PSY 2401	Social Psycholog y-II	Preventio n and control of aggressio n	Premari tal and marital counsel ing	Media Violence and its effect	Social Psycholoy and Mental Health	CO1 : Students will understan d research and empirical findings





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							<p>in social psychology. PO3: Social competence : Express oneself clearly and precisely to build good interpersonal relationships in personal and professional life. Make effective use of linguistic competencies to express themselves effectively in real and virtual media. Demonstrate multicultural</p>
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							ural sensitivit y in group settings.
PSY 2402	Abnormal Psycholog y-II	Types of Eating Disorders	Sexual Abuse	Childhoo d disorders	Sleep-wake disorder		CO1: Students will understan d causes, treatment and symptom s. PO4: Disciplin ary Knowled ge: Demonst rate a blend of conventi onal discipline knowled ge and its applicati ons to the modern World. Execute strong theoretic al and practical understan ding





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							generated from the chosen programme.
PSY 2403	Growth and Development Psychology-II	Physical Development and Maturity	Dealing with Life Changes	Substance Abuse	Health and Wellbeing		CO1: Students will be aware about personal growth and development. PO6: Self – directed and Life-long learning : Acquire the ability to engage in independent and life – long learning in the broadest context of socio-technological change.





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B.A Psychology (UG)	PSY 3501	Psychology at Workplace	Application:Using Motivation theory at work	Communicate appraisal results to Employee	Importance at workplace	Job Search Skills	CO1: Students will be gain the knowledge of important concepts, processes and issues in the fields of Industrial Psychology. PO4: Disciplinary Knowledge: Demonstrate a blend of conventional discipline knowledge and its applications to the modern World. Execute strong theoretical and practical
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							understanding generated from the chosen programme.
PSY 3501	Applied Psychology-I	Nature and scope of Educational Psychology	Advertising and Consumer Psychology	Positive Psychology	Community mental health		<p>CO1: Students will be understand the relationship between theoretical and applied aspects of Psychology.</p> <p>PO5: Personal and Professional competence: Equip with strong work attitudes and professional</p>





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							nal skills that will enable them to work independently as well as collaboratively in a team environment.
PSY 3502	Psychological Research	Developing ideas for research	Goals of Research	Importance of Scientific Research	Research Proposal		CO1: Students will be develop the spirit of Scientific inquiry in the students. . PO1: Research – Related Skills Seeks opportunity for research and higher academic achieves





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							in the chosen field and allied subjects and is aware about research ethics, intellectual property rights and issues of plagiarism. Demonstrate a sense of inquiry and capability for asking relevant/appropriate question; ability to plan, execute and report the results of an research project
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							be it in field or otherwise under supervision.
PSY 3503	Psychology Practical:Test	Personal Value	16 PF	Test of Creativity	Dexterity Test		CO2: Students will gain practical experience in administering and scoring psychological tests. PO4: Disciplinary Knowledge: Demonstrate a blend of conventional discipline knowledge and its applications to the modern World. Execute strong





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							theoretical and practical understanding generated from the chosen programme.
PSY 3601	Organizational Psychology	Job satisfaction and Organizational Commitment	Human Relations	Organizational Functioning	Leadership: Meaning and Nature		CO1: Students will gain knowledge of different facets of organizational functioning. PO4: Disciplinary Knowledge: Demonstrate a blend of conventional discipline knowledge and its applications to the





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							modern World. Execute strong theoretical and practical understanding generated from the chosen programme.
PAP S 3601	Applied Psychology II	Family and Marital Problems and Solutions	Scope of Sports Psychology	Community Problems	Stress and Strain	CO1: Students will understand the role of Psychologists in various applied fields. PO6: Self – directed and Life-long learning : Acquire the ability to engage in independ	





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							ent and life – long learning in the broadest context of socio-technological change.
PAP S 3602	Experimental Psychology	Problem Solving	Decision Making	Memory: Meaning and Models.	Basic concepts in Psychophysics		CO1: Students will learn fundamental of Experimental Psychology. PO1: Research – Related Skills Seeks opportunity for research and higher academic achieves in the chosen field and allied subjects





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							and is aware about research ethics, intellectual property rights and issues of plagiarism. Demonstrate a sense of inquiry and capability for asking relevant/appropriate question; ability to plan, execute and report the results of an research project be it in field or otherwise under
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							supervision.
	PSY 3603	Psychology Practical:Experiments	Recall and Recognition	Short Term Memory	Habit Interference	Serial Learning	CO2: Students will gain practical experience of conducting and designing psychology experiments. PO4: Disciplinary Knowledge: Demonstrate a blend of conventional discipline knowledge and its applications to the modern World. Execute strong theoretical and practical understand





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							ding generated from the chosen programme.
M.A-I (Psychology) (PG)	PAP S 111	Cognitive Psychology	Sensation and attention	Functions of Attention	Quantitative Research Methods	Neuropsychological basis of Language	CO1: Students will develop positive attitude about day-to-day problems and its solution. PO8: Critical Thinking and problem solving : Identify problems by closely examining the situations around them and think holistically about the phenomena and





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							generate viable solutions to these problems . Exhibit the skill of critical thinking and understand scientific texts and place scientific statements and themes in contexts and also evaluate them in terms of generic conventions. Identify the problem by observing the situation closely, take actions and apply lateral
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							thinking and analytical skills to design the solutions.
PAP S 112	Psychometrics	Uses of Psychological Tests	General Steps in Psychological Testing	Importance of Psychological Testing.	Ethical Issues in Psychological Testing		CO3: Students will learn to identify and recognize the characteristics of good Psychological Test. PO4: Disciplinary Knowledge: Demonstrate comprehensive knowledge and a strong theoretical grounding in their





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							area of work
PAP S 113	Statistical Methods	SD	Probability	Normal Distribution Curve	Two Way ANOVA		CO1: Understand and apply various Statistical Methods. PO8: Critical Thinking and problem solving : Identify problems by closely examining the situations around them and think holistically about the phenomena and generate viable solutions to these problems . Exhibit the skill of critical





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							thinking and understand scientific texts and place scientific statements and themes in contexts and also evaluate them in terms of generic conventions. Identify the problem by observing the situation closely, take actions and apply lateral thinking and analytical skills to design the solutions.
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	PAP S 114	Psychology Practical:Tests	Intelligence Test	Personality Test	Aptitude Test	Interest Test	CO3: Students will Construct s new Psychological Tests and its application. PO8: Critical Thinking and problem solving : Identify problems by closely examining the situations around them and think holistically about the phenomena and generate viable solutions to these problems . Exhibit the skill
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							of critical thinking and understand scientific texts and place scientific statements and themes in contexts and also evaluate them in terms of generic conventions. Identify the problem by observing the situation closely, take actions and apply lateral thinking and analytical skills to design the solutions.
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PAP S 121	Learning and Memory	Short Term Memory	Memory Improvement Techniques	Models of Memory	Distortions of Memory	CO1: Improve Memory by using various Technique. PO6: Self – directed and Life-long learning : Acquire the ability to engage in independent and life – long learning in the broadest context of socio-technological change.
PAP S 122	Psychological Testing:Applications	Assessment of Human Strength	Developing the Capacity of the	Aptitude Tests	Psychological Factors of the individuals like Intelligence,Personality,Cognitive Ability and Behavioral Patterns.	CO1: Students Will Understand the Assessment methods of





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Cycle IV

2019 - 2024

				individ uals			Various Psycholo gical Variables PO4: Disciplin ary Knowled ge: Demonst rate compreh ensive knowled ge and a strong theoretic al groundin g in their area of work.
PAP S 123	Research Methodolo gy	Types of hypothes es	Operati onal Definiti ons	Research Design	Sampling Techniqu s	CO1: Students will learn fundame ntal of Experime ntal Psycholo gy.	





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							PO1: Research – Related Skills and Scientific temper: Seeks opportunity for research and higher academic achieves in the chosen field and allied subjects and is aware about research ethics, intellectual property rights and issues of plagiarism. Demonstrate a sense of inquiry
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							and capability for asking relevant/appropriate question; ability to plan, execute and report the results of an research project be it in field or otherwise under supervision.
PAP S 124	Psychology Practical: Experiments	Ziegarnick Effect	Short Term Memory	Perceptual Defence	Stroop Effect		CO3: Students will Construct s new Psychological Tests and its application. PO8: Critical Thinking and





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							<p>problem solving : Identify problems by closely examining the situations around them and think holistically about the phenomena and generate viable solutions to these problems . Exhibit the skill of critical thinking and understand scientific texts and place scientific statements and themes in contexts and also evaluate</p>
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							them in terms of generic conventions. Identify the problem by observing the situation closely, take actions and apply lateral thinking and analytical skills to design the solutions.
M.A-II Psychology (P.G)	PAP S 231	Personality	Understanding Personality	Psychanalytical Theory	Carl Rogers Theory	Applications of Personality Industries.	CO1: Student will be applying personality theories indifferent walks of life. PO6: Self – directed and Life-





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							long learning : Acquire the ability to engage in independent and life – long learning in the broadest context of socio-technological change.
	PAP S 232	Psychopathology	Criteria of Abnormal Psychology	DSM Systems	Sleep Disorder	Intellectual Disability.	CO1: Examine the impact of biological factors on the development of psychological disorders. PO4: Disciplinary Knowledge: Demonstrate comprehensive





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							ensive knowled ge and a strong theoretic al groundin g in their area of work.
	PAP S 233	Psychodiag nostics	SCID-I	Persona lity Invento ry	Mental Status Examinat ion	Psychological Report Writing	CO1: Students know the Mental Status of the Patient PO8: Critical Thinkin g and problem solving : Identify problems by closely examinin g the situations around them and think holistical ly about the phenome na and





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							generate viable solutions to these problems . Exhibit the skill of critical thinking and understand scientific texts and place scientific statements and themes in contexts and also evaluate them in terms of generic conventions. Identify the problem by observing the situation closely, take actions and apply lateral
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							thinking and analytical skills to design the solutions.
	PAP S 234	Project	Introduction	Review of Literature	Methodology	Discussions and Conclusions.	CO1: Students will learn fundamental of Experimental Psychology. PO1: Research – Related Skills and Scientific temper: Seeks opportunity for research and higher academic achieves in the chosen field and





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							allied subjects and is aware about research ethics, intellectual property rights and issues of plagiarism. Demonstrate a sense of inquiry and capability for asking relevant/appropriate question; ability to plan, execute and report the results of an research project be it in field or otherwise
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BBA CA

Program me	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
			Local	National	Regional	Global	
BBA(Computer Application) (UG)	BCA-101-MJM	Programming in C	Keywords, Identifiers, Variables, Operators, Decision Making Statements, Functions, Array, String	Keywords, Identifiers, Variables, Operators, Decision Making Statements, Functions, Array, String	Keywords, Identifiers, Variables, Operators, Decision Making Statements, Functions, Array, String	Keywords, Identifiers, Variables, Operators, Decision Making Statements, Functions, Array, String	<p>CO1. Read, understand and trace the execution of programs written in C language.</p> <p>CO2. Illustrate and explain the basic computer concepts and programming principles of C language.</p> <p>CO3. Write, debug and execute simple programs in „C“.</p> <p>PO2: Procedural Knowledge for Skill Enhancement: Students should be able to</p>





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Cycle IV

2019 - 2024

							<p>acquired complete procedural knowledge for deep understanding of every subject and enhancing the subject skills</p> <p>PO10: Design and Development of System: Students should be able to design and develop efficient solutions for complex real world computing problems and design system components or processes that meet the specifies needs with appropriate consideration for public health and safety and</p>
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							the cultural, social and environmental considerations.
BCA-102-MJM	Database Management System	Structure of DBMS, Data Models, Relational Database, SQL, Relational Database Design	Structure of DBMS, Data Models, Relational Database, SQL, Relational Database Design	Structure of DBMS, Data Models, Relational Database, SQL, Relational Database Design	Structure of DBMS, Data Models, Relational Database, SQL, Relational Database Design	Structure of DBMS, Data Models, Relational Database, SQL, Relational Database Design	<p>CO1. Describe the fundamental elements of Database management system.</p> <p>CO2. Formulate Queries using SQL and Relational Formal Query Languages.</p> <p>CO3. Improve the database design by normalization.</p> <p>PO1: A Fundamental Knowledge and Coherent Understanding: Student should be able to</p>





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							<p>acquire broad multidisciplinary knowledge in different educational domains and their links to various field of study like Banking, Accounting, Management, Logistics, Marketing, Human Resource Management and Computer Science and Applications.</p> <p>PO10: Design and Development of System: Students should be able to design and develop efficient solutions for complex</p>
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							real world computing problems and design system components or processes that meet the specifies needs with appropriate consideration for public health and safety and the cultural, social and environmental considerations
BCA-103-MJM	Practical I	Array, String, function. Relational Database, SQL queries	Array, String, function. Relational Database, SQL queries	Array, String, function. Relational Database, SQL queries	Array, String, function. Relational Database, SQL queries	Array, String, function. Relational Database, SQL queries	CO1. Explain use of appropriate data types, control statements. CO2. Write programs using Array, String and function. CO3. Read, understand and trace the execution of programs





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							<p>written in C language.</p> <p>CO4. Write the C code for a given algorithm.</p> <p>CO5. Demonstrate the basic elements of a relational database management system</p> <p>PO3: Critical Thinking and Problem-Solving Skills: Students should be able to solve all types of issues in both known and unknown circumstances, as well as apply what they have learned to real-life situations. Students will be able</p>
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							to conduct investigation on complex problem PO10: Design and Development of System: Students should be able to design and develop efficient solutions for complex real world computing problems and design system components or processes that meet the specifies needs with appropriate consideration for public health and safety and the cultural, social and environmental considerations.
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	BCA-116-OE	E-Commerce	Electronic Payment System, E-commerce Technology, Current Trends in E-commerce	Electronic Payment System, E-commerce Technology, Current Trends in E-commerce	Electronic Payment System, E-commerce Technology, Current Trends in E-commerce	Electronic Payment System, E-commerce Technology, Current Trends in E-commerce	<p>CO1. Gain an Understanding on how innovative use of the Business Commerce can help developing competitive advantages.</p> <p>CO4. Explain E-commerce on business models and strategy.</p> <p>CO7. Describe how procurement and supply chains relate to B2B E-commerce.</p> <p>PO6: Innovation, Employability and Entrepreneurial Skills: The students should be able to identify opportunities and pursue</p>
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							those opportunities to create value and wealth for the betterment of the individual and society at large as well as be suitable for employment, as an entrepreneur focused, and serve as a role model for ethical and responsible economic professionals
BCA-117-OE	Office Automation using MS-Office	Text formatting, Working with tabs and indents, Proofing Documents, Printing, MS-access, Working	Text formatting, Working with tabs and indents, Proofing Documents, Printing, MS-access, Working	Text formatting, Working with tabs and indents, Proofing Documents, Printing, MS-access, Working	Text formatting, Working with tabs and indents, Proofing Documents, Printing, MS-access, Working	Text formatting, Working with tabs and indents, Proofing Documents, Printing, MS-access, Working	<p>CO1. To perform documentation</p> <p>CO2. To perform accounting operations</p> <p>CO3. To perform presentation skills</p> <p>CO4. Work in office,</p>





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			with forms	with forms	with forms	with forms	<p>handle documents, spreadsheets, and make presentations</p> <p>CO5. Create personal, academic and business documents</p> <p>PO3: Critical Thinking and Problem-Solving Skills: Students should be able to solve all types of issues in both known and unknown circumstances, as well as apply what they have learned to real-life situations. Students will be able to conduct investigation on complex</p>
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							problem solving through the design of experiments , analysis and interpretation of data to arrive at valid conclusion.
	BCA-121-VSC	Networking	Intranet Extranet, Network Type ,IP addressing and Routing , Protocols	Intranet Extranet, Network Type ,IP addressing and Routing , Protocols	Intranet Extranet, Network Type ,IP addressing and Routing , Protocols	Intranet Extranet, Network Type ,IP addressing and Routing , Protocols	<p>CO1. Understand various computer networks and technologies behind networks.</p> <p>CO4. Get knowledge of wireless networking concepts and protocols.</p> <p>CO5. Get knowledge of layered communication architectures.</p> <p>CO6. Understand the concepts of reliable data transfer</p>





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							<p>and working of TCP</p> <p>CO7. Understand data transmission across the network through protocols.</p> <p>PO10: Design and Development of System: Students should be able to design and develop efficient solutions for complex real world computing problems and design system components or processes that meet the specifies needs with appropriate consideration for public health and safety and the cultural,</p>
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							social and environmental considerations.
BCA-126-SEC	MS-Excel Skills for Business	Excel Shortcuts Printing and Protecting Worksheet, Modify worksheet, Formatting data, Data Validation Formulas and Functions, Basic Charts	Excel Shortcuts Printing and Protecting Worksheet, Modify worksheet, Formatting data, Data Validation Formulas and Functions, Basic Charts	Excel Shortcuts Printing and Protecting Worksheet, Modify worksheet, Formatting data, Data Validation Formulas and Functions, Basic Charts	Excel Shortcuts Printing and Protecting Worksheet, Modify worksheet, Formatting data, Data Validation Formulas and Functions, Basic Charts	Excel Shortcuts Printing and Protecting Worksheet, Modify worksheet, Formatting data, Data Validation Formulas and Functions, Basic Charts	<p>CO1. Seize the basic foundational functions of Excel: the Excel user interface, the basic terminology of Excel.</p> <p>CO5. Optimises a spreadsheet for printing by managing margins, orientation, headers and footers, and more.</p> <p>CO7. Customize the formatting of charts in Excel.</p> <p>PO6: Innovation, Employability and Entrepreneurial Skills:</p>





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BCA-137-IKS	Indian Innovations in Computer and Technology	Bhartiya Knowledge System, Ancient Bhartiya Contribution	Bhartiya Knowledge System, Ancient Bhartiya Contribution	Bhartiya Knowledge System, Ancient Bhartiya Contribution	Bhartiya Knowledge System, Ancient Bhartiya Contribution	Bhartiya Knowledge System, Ancient Bhartiya Contribution	CO1. The knowledge system was developed during the Vedic period, the





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			towards Science & Mathemat ics , Evolution s of program ming Language s	towards Science & Mathemat ics , Evolution s of program ming Language s	towards Science & Mathemat ics , Evolution s of program ming Language s	towards Science & Mathemat ics , Evolution s of program ming Language s	Saraswatī- Sindhu Civilization, the Middle ages and practiced knowingly or unknowingl y till date CO2. Awareness amongst the youths about the true history and rich culture of the country. CO3. The youths will be self- motivated to do research in the various fields of Bhāratīya Knowledge tradition. PO9: Traditional Knowledge into Modern Application: Students should be able to acquire and
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							apply traditional knowledge system in to modern and professional domain.
BCA-151-MJM	Data Structure using C	Searching , Sorting, Looping, Function, Linked list , Stack, Queue	Searching , Sorting, Looping, Function, Linked list , Stack, Queue	Searching , Sorting, Looping, Function, Linked list , Stack, Queue	Searching , Sorting, Looping, Function, Linked list , Stack, Queue	Searching , Sorting, Looping, Function, Linked list , Stack, Queue	CO1. Understand the concept of Dynamic Memory Management, algorithms, Big O notation. CO2. Apply Algorithm for solving problems like sorting, searching, insertion and deletion of data CO3. Understand linear data structures arrays, linked lists, stacks and queues, and their differences. PO2: Procedural Knowledge for Skill





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Cycle IV

2019 - 2024

							<p>Enhancement: Students should be able to acquire complete procedural knowledge for deep understanding of every subject and enhancing the subject skills.</p> <p>PO3: Critical Thinking and Problem-Solving Skills: Students should be able to solve all types of issues in both known and unknown circumstances, as well as apply what they have learned to real-life situations. Students will be able to</p>
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2019 - 2024

							conduct investigation on complex problem solving through the design of experiments, analysis and interpretation of data to arrive at valid conclusion
BCA-152-MJM	Relational Database Management System	PL-SQL, Exception Handling, Transaction Management, Protocols, Deadlock Handling	PL-SQL, Exception Handling, Transaction Management, Protocols, Deadlock Handling	PL-SQL, Exception Handling, Transaction Management, Protocols, Deadlock Handling	PL-SQL, Exception Handling, Transaction Management, Protocols, Deadlock Handling	PL-SQL, Exception Handling, Transaction Management, Protocols, Deadlock Handling	<p>CO1. Describe the fundamental elements of Database Management System.</p> <p>CO2. Formulate Queries using SQL and Relational Formal Query Languages.</p> <p>CO3. Apply different normal forms to design the Database.</p> <p>CO4. Improve the Database Design by</p>





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2019 - 2024

							<p>Normalizati on. modern computing tools to computing activities.</p> <p>PO1: A Fundamenta l Knowledge and Coherent Understandi ng: Student should be able to acquire broad multidiscipli nary knowledge in different ed ucational domains and their links to various field of study like Banking, Accounting, Managemen t, Logistics, Marketing, Human Resource Managemen</p>
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2019 - 2024

							<p>t and Computer Science and Application s PO3: Critical Thinking and Problem- Solving Skills: Students should be able to solve all types of issues in both known and unknown circumstanc es, as well as apply what they have learned to real-life situations. Students will be able to conduct investigatio n on complex problem solving through the design of experiments , analysis</p>
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							and interpretation of data to arrive at valid conclusion.
BCA-153-MJM	Practical I II	Programs based on Searching, Sorting, Looping, Function, Linked list, Stack, Queue, PL-SQL, Exception Handling	Programs based on Searching, Sorting, Looping, Function, Linked list, Stack, Queue, PL-SQL, Exception Handling	Programs based on Searching, Sorting, Looping, Function, Linked list, Stack, Queue, PL-SQL, Exception Handling	Programs based on Searching, Sorting, Looping, Function, Linked list, Stack, Queue, PL-SQL, Exception Handling	Programs based on Searching, Sorting, Looping, Function, Linked list, Stack, Queue, PL-SQL, Exception Handling	<p>CO1. Apply appropriate data structures for the given problem.</p> <p>CO2. Design an efficient algorithm for the given problem and implement it using C Programming.</p> <p>CO5. Demonstrate the basic elements of a relational database management system</p> <p>CO6. Identify the data models for relevant problems.</p> <p>CO7.</p>





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							<p>Design entity relationship and formulate SQL queries on the respect data.</p> <p>PO10: Design and Development of System: Students should be able to design and develop efficient solutions for complex real world computing problems and design system components or processes that meet the specifies needs with appropriate consideration for public health and safety and the cultural, social and environment</p>
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							al consideratio ns
BCA- 161- MN	Basics of Comput er	Types of Computer s, Data Communi cation, Protocols, WWW, Web Browser , Internet Awarenes s	Types of Computer s, Data Communi cation, Protocols, WWW, Web Browser , Internet Awarenes s	Types of Computer s, Data Communi cation, Protocols, WWW, Web Browser , Internet Awarenes s	Types of Computer s, Data Communi cation, Protocols, WWW, Web Browser , Internet Awarenes s	Types of Computer s, Data Communi cation, Protocols, WWW, Web Browser , Internet Awarenes s	CO1. Understandi ng the basic components of a computer system, including hardware (CPU, memory, storage devices, input/output devices) and software (operating systems, applications). CO2. Familiarity with computer networks and the internet, including concepts like IP addresses, protocols, and the





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							World Wide Web. CO5. Identify the software's, types of computers, operating system. CO6. Understand the basics of Internet Awareness PO10: Design and Development of System: Students should be able to design and develop efficient solutions for complex real world computing problems and design system components or processes that meet the specifies needs with appropriate consideratio
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							n for public health and safety and the cultural, social and environmental considerations
BCA-166-OE	Python for Everyone	Introduction, Operators and expressions, Decision making and Looping, Functions, Python Data Structures	Introduction, Operators and expressions, Decision making and Looping, Functions, Python Data Structures	Introduction, Operators and expressions, Decision making and Looping, Functions, Python Data Structures	Introduction, Operators and expressions, Decision making and Looping, Functions, Python Data Structures	Introduction, Operators and expressions, Decision making and Looping, Functions, Python Data Structures	<p>CO1. Learn Syntax and Semantics and program constructs.</p> <p>CO2. Read, understand and trace the execution of programs written in Python language.</p> <p>CO3. Write, debug and execute simple programs in Python.</p> <p>PO3: Critical Thinking and Problem-Solving Skills:</p>





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							<p>Students should be able to solve all types of issues in both known and unknown circumstances, as well as apply what they have learned to real-life situations. Students will be able to conduct investigation on complex problem solving through the design of experiments , analysis and interpretation of data to arrive at valid conclusion.</p> <p>PO6: Innovation, Employability and Entrepreneurial Skills:</p>
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							<p>The students should be able to identify opportunities and pursue those opportunities to create value and wealth for the betterment of the individual and society at large as well as besuitable for employment , as an entrepreneur focused, and serve as a role model for ethical and responsible economic professionals</p> <p>PO10: Design and Development of System: Students should be</p>
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BCA-167-OE	Introduction to Business Analytics	Business Analytics Types, Tableau Calculations and Filters, Charts and Graphs, Dashboards	Business Analytics Types, Tableau Calculations and Filters, Charts and Graphs, Dashboards	Business Analytics Types, Tableau Calculations and Filters, Charts and Graphs, Dashboards	Business Analytics Types, Tableau Calculations and Filters, Charts and Graphs, Dashboards	Business Analytics Types, Tableau Calculations and Filters, Charts and Graphs, Dashboards	CO2. Identify the value and structure of Tableau Software as it applies to data visualization in the industry of business





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							<p>and data analytics.</p> <p>CO3. Understand the fundamental s of data visualization.</p> <p>CO4. Learn how to manipulate data and apply different Filters to get the desired output.</p> <p>CO5. Build interactive dashboards and stories to reveal data insights.</p> <p>PO6: Innovation, Employability and Entrepreneurial Skills: The students should be able to identify opportunities and pursue those opportunitie</p>
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							<p>s to create value and wealth for the betterment of the individual and society at large as well as besuitable for employment , as an entrepreneur focused, and serve as a role model for ethical and responsible economic professional s</p> <p>PO10: Design and Development of System: Students should be able to design and develop efficient solutions for complex real world computing</p>
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							problems and design system components or processes that meet the specifies needs with appropriate consideration for public health and safety and the cultural, social and environmental considerations
BCA-171-VSC	Networking Laboratory	Types of Cables, Different types of networking commands, Configuration of different application layer Protocols, Familiarization of networking components	Types of Cables, Different types of networking commands, Configuration of different application layer Protocols, Familiarization of networking components	Types of Cables, Different types of networking commands, Configuration of different application layer Protocols, Familiarization of networking components	Types of Cables, Different types of networking commands, Configuration of different application layer Protocols, Familiarization of networking components	Types of Cables, Different types of networking commands, Configuration of different application layer Protocols, Familiarization of networking components	CO1. Able to analysis, design, troubleshooting, modelling, testing and evaluation of computer networks. CO2. Proficiency in understanding and implementing common networking protocols





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			nts and Devices	nts and Devices	nts and Devices	nts and Devices	<p>CO3. Learn routing concept along with Routing protocols.</p> <p>PO10: Design and Development of System: Students should be able to design and develop efficient solutions for complex real world computing problems and design system components or processes that meet the specifies needs with appropriate consideration for public health and safety and the cultural, social and environmental</p>
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							considerations. PO12: Research-Related skills: The students should be able to acquire the understanding of basic research process, methodology and ethics in practicing personal and social research work, regardless of the field of study
BCA-176-SEC	Advanced Excel	Data Validation, Logical, Power, Database Functions, Pivot chart, Graphs, Slicers, Report Generation, Macro	Data Validation, Logical, Power, Database Functions, Pivot chart, Graphs, Slicers, Report Generation, Macro	Data Validation, Logical, Power, Database Functions, Pivot chart, Graphs, Slicers, Report Generation, Macro	Data Validation, Logical, Power, Database Functions, Pivot chart, Graphs, Slicers, Report Generation, Macro	Data Validation, Logical, Power, Database Functions, Pivot chart, Graphs, Slicers, Report Generation, Macro	CO1. Use advanced functions and productivity tools to assist in developing Worksheets CO2. Manipulate data lists using Outline, Auto filter





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							<p>and PivotTables CO6. Use a variety of advanced functions for complex calculations and data Manipulation PO10: Design and Development of System: Students should be able to design and develop efficient solutions for complex real world computing problems and design system components or processes that meet the specifies needs with appropriate consideration for public health and safety and the cultural,</p>
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							social and environmental considerations.
	UBCA 231	Java Programming	Introduction to JAVA , Applet, AWT and Swing Programming	Introduction to JAVA , Applet, AWT and Swing Programming	Introduction to JAVA , Applet, AWT and Swing Programming	Introduction to JAVA , Applet, AWT and Swing Programming	<p>CO1: Know the different basic concepts of Java programming language.</p> <p>CO3: Develop Software in the Java programming language.</p> <p>PO3. Design and Development: Design and develop efficient solutions for complex real-world computing problems and design system components or processes that meet the specified needs with appropriate considerations.</p>





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							n for public health and safety and the cultural, societal, and environmental considerations. PO4. Conduct investigations of complex problems: Ability to research, analyze and Investigate complex computing problems through the design of experiments , analysis, and interpretation of data, and synthesis of the information to arrive at valid conclusions.
	UBCA 232A	PHP	Functions , Objects	Functions , Objects	Functions , Objects	Functions , Objects	CO1: Write PHP scripts to





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			and Errors, MySQL Database	and Errors, MySQL Database	and Errors, MySQL Database	and Errors, MySQL Database	<p>handle HTML forms.</p> <p>CO3: Create PHP programs that use various PHP library functions, and that manipulate files and directories.</p> <p>CO4: Analyze and solve various database tasks using the PHP language</p> <p>PO3. Design and Development: Design and develop efficient solutions for complex real-world computing problems and design system components or processes that meet the specified needs with appropriate</p>
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							<p>consideration for public health and safety and the cultural, societal, and environmental considerations.</p> <p>PO4. Conduct investigations of complex problems: Ability to research, analyze and Investigate complex computing problems through the design of experiments, analysis, and interpretation of data, and synthesis of the information to arrive at valid conclusions.</p>
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	UBCA 232B	Node JS	Working in REPL ,Events	Working in REPL ,Events	Working in REPL ,Events	Working in REPL ,Events	<p>CO1: To Understand Node JS and REPL terminal.</p> <p>CO3: Develop applications to handle events in Node JS.</p> <p>PO3. Design and Development: Design and develop efficient solutions for complex real-world computing problems and design system components or processes that meet the specified needs with appropriate consideration for public health and safety and the cultural, societal, and</p>
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							environmental considerations. PO4. Conduct investigations of complex problems: Ability to research, analyze and Investigate complex computing problems through the design of experiments, analysis, and interpretation of data, and synthesis of the information to arrive at valid conclusions.
	UBCA 233	Python Programming	Modules, Function	Modules, Function	Modules, Function	Modules, Function	CO2: To design and develop Python Applications. CO7.





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							<p>Develop, run and manipulate Python programs using Core data structures like Lists, Dictionaries, and use of Strings Handling methods</p> <p>PO3. Design and Development: Design and develop efficient solutions for complex real-world computing problems and design system components or processes that meet the specified needs with appropriate consideration for public health and</p>
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							<p>safety and the cultural, societal, and environmental considerations.</p> <p>PO4. Conduct investigations of complex problems: Ability to research, analyze and Investigate complex computing problems through the design of experiments, analysis, and interpretation of data, and synthesis of the information to arrive at valid conclusions.</p>
	UBCA 234	Operating System	Introduction to Operating	Introduction to Operating	Introduction to Operating	Introduction to Operating	CO2. Demonstrate the





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		Concepts	System, Memory Management, Basics of Linux, Scheduling Algorithms	System, Memory Management, Basics of Linux, Scheduling Algorithms	System, Memory Management, Basics of Linux, Scheduling Algorithms	System, Memory Management, Basics of Linux, Scheduling Algorithms	knowledge of the components of computer and their respective roles in computing. CO5. Identify different types of disk scheduling algorithms PO1. Knowledge: To understand and apply the fundamental principles, concepts, and methods in diverse areas of computer science, computer applications, management, mathematics, statistics, etc. PO2. Problem Analysis:
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UBCA 235	Business Statistics using R Programming	Probability and Probability distributions, Programming in R	Probability and Probability distributions, Programming in R	Probability and Probability distributions, Programming in R	Probability and Probability distributions, Programming in R	Probability and Probability distributions, Programming in R	CO1. Develop proficiency in using statistical tools and software. CO2. Apply mathematical and statistical techniques





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							<p>to analyze and interpret data.</p> <p>CO3. Apply knowledge of mathematics and statistics to solve real-world problems.</p> <p>CO4. Demonstrate programming skills and the ability to use appropriate tools for statistical analysis.</p> <p>PO1. Knowledge: To understand and apply the fundamental principles, concepts, and methods in diverse areas of computer</p>
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							<p>science, computer applications, management, mathematics, statistics, etc.</p> <p>PO2. Problem Analysis: Identify, analyse and formulate complex real-life computing problems. Attain substantiated conclusions to solve the problems using fundamental principles of computer science and application domains by using various tools and emerging technologies.</p>
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	UBCA 236	Computer Laboratory I (Based on UBCA231 & UBCA233)	Modules, Function, Applet, AWT and Swing Programming	Modules, Function, Applet, AWT and Swing Programming	Modules, Function, Applet, AWT and Swing Programming	Modules, Function, Applet, AWT and Swing Programming	<p>CO1: Use of Appropriate Data Types, Control Statements</p> <p>CO2: Write programs using String, List, Tuple, Dictionary, Set for Python Programming</p> <p>CO6. Create dynamic web pages, using Servlets and JSP.</p> <p>CO7. Apply event handling on AWT and Swing components</p> <p>PO3. Design and Development: Design and develop efficient solutions for complex real-</p>
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							<p>world computing problems and design system components or processes that meet the specified needs with appropriate consideration for public health and safety and the cultural, societal, and environmental considerations.</p> <p>PO4. Conduct investigations of complex problems: Ability to research, analyze and Investigate complex computing problems through the design of</p>
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							experiments , analysis, and interpretation of data, and synthesis of the information to arrive at valid conclusions.
UBCA 237	Computer Laboratory II (Based on UBCA2 32 & UBCA2 35)	Functions , Objects and Errors, MySQL Database, Probability and Probability distributions,	Functions , Objects and Errors, MySQL Database, Probability and Probability distributions,	Functions , Objects and Errors, MySQL Database, Probability and Probability distributions,	Functions , Objects and Errors, MySQL Database, Probability and Probability distributions,	Functions , Objects and Errors, MySQL Database, Probability and Probability distributions,	CO1: Write PHP Scripts to handle HTML Forms CO2: Analyze and Solve web Application task by writing PHP Programs CO3: Analyze and solve database task using PHP CO6: Appreciate and apply R- Programming from statistical





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							<p>perspective PO3. Design and Development: Design and development: Design and develop efficient solutions for complex real-world computing problems and design system components or processes that meet the specified needs with appropriate consideration for public health and safety and the cultural, societal, and environmental considerations.</p> <p>PO4. Conduct investigations of complex problems:</p>
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	UBCA 241	Advanced Java Programming	JDBC, JSP. Servlet, Networking	JDBC, JSP. Servlet, Networking	JDBC, JSP. Servlet, Networking	JDBC, JSP. Servlet, Networking	CO1: Learn to access database using Java Data Base Connectivity in Java programs. CO4. Develop dynamic webpages using Servlets. CO5. Develop dynamic





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							<p>webpages using JSP. CO6. Develop and utilize client/server applications and TCP/IP socket programming PO3. Design and Development: Design and develop efficient solutions for complex real-world computing problems and design system components or processes that meet the specified needs with appropriate consideration for public health and safety and the cultural, societal, and environment</p>
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							al consideratio ns. PO4. Condu ct investigatio ns of complex problems: Ability to research, analyze and Investigate complex computing problems through the design of experiments , analysis, and interpretatio n of data, and synthesis of the information to arrive at valid conclusions.
UBCA 242A	Advanc ed PHP	XML, Ajax with PHP, Web Services	XML, Ajax with PHP, Web Services	XML, Ajax with PHP, Web Services	XML, Ajax with PHP, Web Services	XML, Ajax with PHP, Web Services	CO3: Students will able to Analyze the construction of a web page and relate how





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							<p>PHP and XML combine to produce the web page.</p> <p>CO4: Students will be able to combine Ajax with PHP.</p> <p>CO7. Students will be able to develop interface a PHP script with a MySQL database</p> <p>PO3. Design and Development: Design and develop efficient solutions for complex real-world computing problems and design system components or processes that meet the</p>
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							<p>specified needs with appropriate consideration for public health and safety and the cultural, societal, and environmental considerations.</p> <p>PO4. Conduct investigations of complex problems: Ability to research, analyze and Investigate complex computing problems through the design of experiments , analysis, and interpretation of data, and synthesis of the information to arrive at</p>
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							valid conclusions.
	UBCA 242B	React JS	React JS Component, Routing in React JS	React JS Component, Routing in React JS	React JS Component, Routing in React JS	React JS Component, Routing in React JS	CO1. Understand the concept of components and their role in React.js applications CO2. Perform some simple tests. CO3. Create React Components PO3. Design and Development: Design and develop efficient solutions for complex real-world computing problems and design system components or processes that meet the





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							<p>specified needs with appropriate consideration for public health and safety and the cultural, societal, and environmental considerations.</p> <p>PO4. Conduct investigations of complex problems: Ability to research, analyze and Investigate complex computing problems through the design of experiments , analysis, and interpretation of data, and synthesis of the information to arrive at</p>
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							valid conclusions.
	UBCA 243	Mathem atical Foundat ion for Comput er Applica tions	Vectors, Matrices, Sets	Vectors, Matrices, Sets	Vectors, Matrices, Sets	Vectors, Matrices, Sets	CO1. Identify the base case, induction hypothesis, and inductive step in an induction argument, to prove statements using mathematical induction CO2. Able to use logical notations to define and reason about fundamental mathematical concepts such as sets relations and functions. CO3. Basic knowledge of set theory,





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							<p>functions, and relations concepts.</p> <p>PO1. Knowledge: To understand and apply the fundamental principles, concepts, and methods in diverse areas of computer science, computer applications , management, mathematics , statistics, etc.</p> <p>PO2. Problem Analysis: Identify, analyse and formulate complex real-life computing problems. Attain substantiate</p>
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							d conclusions to solve the problems using fundamental principles of computer science and application domains by using various tools and emerging technologies .
UBCA 244	Softwar e Testing and Automa tion	Software Testing, Junit (TestNG)	Software Testing, Junit (TestNG)	Software Testing, Junit (TestNG)	Software Testing, Junit (TestNG)	Software Testing, Junit (TestNG)	CO1. Explain the fundamental s of software testing and automation CO2. Analyze the design of test cases for different testing techniques. CO7. Understand and use software test automation tools.





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							<p>PO3. Design and Development: Design and develop efficient solutions for complex real-world computing problems and design system components or processes that meet the specified needs with appropriate consideration for public health and safety and the cultural, societal, and environmental considerations.</p> <p>PO4. Conduct investigations of complex problems: Ability to</p>
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							research, analyze and Investigate complex computing problems through the design of experiments , analysis, and interpretation of data, and synthesis of the information to arrive at valid conclusions. PO5. Modern Tool Usage: Create, identify and apply appropriate techniques, skills, and modern computing tools to computing activities.
	UBCA 245	Networking	Topologies, Network Types,	Topologies, Network Types,	Topologies, Network Types,	Topologies, Network Types,	CO1. Understand the major concepts





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			TCP/IP Model, Transmission Media, IP Address and Routing	TCP/IP Model, Transmission Media, IP Address and Routing	TCP/IP Model, Transmission Media, IP Address and Routing	TCP/IP Model, Transmission Media, IP Address and Routing	involve in various types of computer networks (LAN, MAN, WAN) and technologies behind networks. CO2. Develop an understanding of modern network architecture from a design and performance. CO3. Discuss the importance of ISO reference model and TCP/IP Suite. CO4. Apply the knowledge of different network design and various logical models of
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							<p>networking to solve problems of communication over different transmission medium.</p> <p>PO1. Knowledge: To understand and apply the fundamental principles, concepts, and methods in diverse areas of computer science, computer applications , management, mathematics , statistics, etc.</p> <p>PO8. Life-Long Learning: Recognize the need and have the ability to</p>
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							engage in independent continuous reflective learning in the context of technological advancement.
UBCA 246	Computer Laboratory I (Based on UBCA241 & UBCA244)	JDBC, JSP. Servlet, Junit (TestNG)	JDBC, JSP. Servlet, Junit (TestNG)	JDBC, JSP. Servlet, Junit (TestNG)	JDBC, JSP. Servlet, Junit (TestNG)	JDBC, JSP. Servlet, Junit (TestNG)	<p>CO1: Learn to access database using JDBC in Java</p> <p>CO2: Develop Dynamic Web Pages using Servlet & JSP</p> <p>CO3: Develop client server applications using SOCKET Programming</p> <p>CO4. Understanding Selenium and TestNG tool to perform Automation</p>





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							<p>testing PO3. Design and Development: Design and develop efficient solutions for complex real-world computing problems and design system components or processes that meet the specified needs with appropriate consideration for public health and safety and the cultural, societal, and environmental considerations.</p> <p>PO4. Conduct investigations of complex problems:</p>
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UBCA 247	Computer Laboratory II(Based on UBCA242 & UBCA245)	XML, Ajax with PHP, IP Address and Routing	XML, Ajax with PHP, IP Address and Routing	XML, Ajax with PHP, IP Address and Routing	XML, Ajax with PHP, IP Address and Routing	XML, Ajax with PHP, IP Address and Routing	CO1. Understand the construction of webpages & relate to PHP & XML. CO2. Design interactive programs using AJAX & PHP, XML. CO3. Design





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							<p>interactive website using Wordpress.</p> <p>CO4. Learn routing concepts along with protocols.</p> <p>CO5. Understand and develop various applications on packet tracer</p> <p>PO3. Design and Development: Design and develop efficient solutions for complex real-world computing problems and design system components or processes that meet the specified needs with appropriate consideration for public</p>
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							<p>health and safety and the cultural, societal, and environmental considerations.</p> <p>PO4. Conduct investigations of complex problems: Ability to research, analyze and Investigate complex computing problems through the design of experiments , analysis, and interpretation of data, and synthesis of the information to arrive at valid conclusions.</p> <p>PO5. Modern Tool Usage:</p>
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							Create, identify and apply appropriate techniques, skills, and modern computing tools to computing activities.
	UBCA 248	Project	Software Development	Software Development	Software Development	Software Development	<p>CO1. Understand programming language concepts, specifically web technologies, Java and object oriented concepts and apply it in problem solving.</p> <p>CO2. Learn the software development cycle and on different processes - requirements, design, and implementation phases.</p> <p>CO3. Identify,</p>





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							plan, analyze, design and implement software project required in society. PO8. Life- Long Learning: Recognize the need and have the ability to engage in independent continuous reflective learning in the context of technologic al advancemen t. PO9. Project Managemen t: Understand and apply computing, managemen t principles to manage projects.
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COMMERCE

Programme	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				Pos, PSO's & Cos
			Local	National	Regional	Global	
B.Com	COM-101-MJM	Financial Accounting I	Accounting Principles	conversion of partnership firm	Consignment Accounting Process and books maintains	Accounting standards	CO1. Impart the knowledge of Basic Accounting Concepts and conventions
B.Com	COM-102-MJM	Principles of Marketing	Marketing concept	Marketing environment	Marketing environment	Buyers behaviour	CO1. Demonstrate knowledge of marketing and its application, scope, types, importance and functions in today's world.
B.Com	COM-116-OE	Introduction to Entrepreneurship	Business organization	Entrepreneurs in economic development.	Factors affecting Entrepreneurship Development	Technological factors	CO2. Demonstrates a comprehensive understanding about the fundamentals of starting and operating business.
B.Com	COM-117-OE	Basics of Consumer Protection	Consumer Protection	Need and Scope of Consumer Protection Act	Problems of Consumers	Problems of Consumers and Consumer Protection	CO3. Demonstrates a comprehensive understanding about consumer rights, duties and mechanism for resolving their disputes.





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B.Co m	COM- 121- VSC	Fina ncial Liter acy I	Financi al Literac y	Regulato ry role of IRDAI	Banking Services	Marin Insuran ce	CO1. Clearly understand the relevance and process of financial planning and practically able to prepare and apply financial plans and budgets.
B.Co m	COM- 126- SEC	Fina ncial Accoun ting I (Pra ctica l)	Accoun ting Princip les	conversi on of partnersh ip firm	Consig nment Accounting Process and books maintains	Process of Consig nment	CO1. Understand the process of preparing a balance sheet in the books of the company.
B.Co m	COM- 137- IKS	Anci ent Tax Syst em	Nature and Scope of Indian Tax System	Administ rative set up of Indian Tax System & Procedur e	Direct and indirect taxes of Central Government & State Government .	Canons of Taxatio n	CO1. Explore the nature and scope of taxes and their classification including the types of taxes and the entities subject to taxation.
	COM- 151- MJM	Fina ncial Accoun ting II	Accoun ting Record s Skills	GST Accounti ng Records Procedur es	Higher Purchase Accounting system	Comput erized Accoun ting	CO6. Know about the different types of newly introduced accounting software and its features
B.Co m	COM- 152- MJM	Prin ciple s of Man age ment	Nature & Signific ance of Manage ment	Process of Planning	Significance of Organizatio n	Organiz ation Structur es	CO1. Provide an overview of management and its evaluation





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B.Co m	COM- 161- MN(A)	Mar ketin g Man age ment	Rural Marketi ng	Marketin g Mix	Service Marketing	Digital and Social Media Marketi ng	CO1. Demonstrate knowledge of rural marketing and its application, scope, types, importance and functions in today's world.
B.Co m	COM- 161- MN(B)	Cost and Wor ks Acc ount ing	Basic Concep ts	Cost Classific ation	Costing Techniques	Costing Method s	CO1. Demonstrate knowledge of Cost and Works Accounting and its application, scope, types, importance and functions in today's world.
B.Co m	COM- 161- MN(E)	Basi cs of Busi ness Adm inist ratio n	Busines s Environ ment	Constitu ents of Business Environ ment	Business- Economic & Social Perspectives	Types of Busines s Organiz ation	CO2. Impart the knowledge of business and its different forms or types.
B.Co m	COM- 166- OE	Entr epre neur ship Dev elop ment	Family Busines s	Challeng es before Indian Entrepre neurs	Business Plan	Busines s Plan	CO2. The students can come to know various governmental institutions providing facilities to entrepreneurs.
B.Co m	COM- 167- OE	Busi ness Ethi cs	Concep tual Frame work of Busines s Ethics	Types of Business Ethics	Business Ethics in Modern Times	Ethics of intellect ual propert y skill, knowle dge	CO1. This will help the students to make them acquainted about the concept of Business Ethics.





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B.Co m	COM- 171- VSC	Fina ncial Acc ount ing II (Pra ctica l)	Accoun ting Record s Skills	Single Entry System	Higher Purchase Accounting system	Accoun ting Standar ds	CO1.Students will get knowledge about the different accounting standards in India.
B.Co m	COM- 176- SEC	Fina ncial Liter acy II	Financi al Service s	Structure of the Indian Banking System	Structure of the Indian Banking System	Introdu ction to Financi al Market s	CO1. Understand the significance of financial literacy education.
B.Co m	UCB C231	Busi ness Com muni cations I	Basic Communi cation Skills	Oral Presentat ion Skills	Barriers to Communica tions	Soft Skills	PO2.Communication Skill: Able to communicate effectively, analyse the concepts and participate in healthy arguments and portray skill in communication and in writing. Possess skills related with banking and other business.





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	UCB CSEC 1	Busi ness Com muni cati on I (Pra ctica l)	Basic Commu nication Skills	Oral Presentat ion Skills	Barriers to Communica tions	Soft Skills	PO2.Communication Skill : Able to communicate effectively, analyse the concepts and participate in healthy arguments and portray skill in communication and in writing. Possess skills related with banking and other business.
B.Co m	UCC A231	Corp orate Acc ount ing I	Compa ny Final Accoun t	Holding Compan y	Valuation of Shares	Accoun ting Standar d	PO2.The course will help the students to get a thorough knowledge about corporate accounting. It would also enable the students to know about application of accounting standards, concept of holding and subsidiary companies.
B.Co m	UCB M231	Busi ness Man age ment I	Bussine ss Plannin g	Recent trends in Manage ment	Performing managemen t Functions	Underst anding Global Busines s manage ment challen ges and practice s.	CO2.Leadership quality : Exhibit qualities associated with leadership such as accountability, integrity, respect, self reflection





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B.Co m	UCC L231	Ele ment s of com pany Law I	Compa ny Act	Incorpor ation of a Compan y	Capital of Company	Transfe r of Shares	CO2.This Course help to getting the knowledge of fundamentals of Company Law, update the knowledge of provisions of the Companies Act of 2013
B.Co m	UCM M231 (A)	Mar ketin g Man age ment I	Retail marketi ng, Elemen ts of Marketi ng Manage ment, Marketi ng Communi cation	Current Marketin g Environ ment in India, Elements of Marketin g Manage ment, Marketin g Communi cation	Current Marketing Environmen t in India, Elements of Marketing Managemen t, Marketing Communica tion	Elemen ts of Marketi ng Manage ment, Marketi ng Communi cation	CO2.Students will be demonstrate the ability to acquire knowledge and business skills the capacity for self directed activity and the ability to work independently
	UCM MSE C2(A)	Mar ketin g Man age ment II (Pra ctica l)	Marketi ng Segmen tation	Marketin g Environ ment	e-marketing	Marketi ng researc h	CO3.Students will be demonstrate the ability to acquire knowledge and business skills the capacity for self directed activity and the ability to work independently





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B.Co m	UCC WA2 31(B)	Cost and Wor ks Acc ount ing I	Elemen ts of cost	material Control	Tender and cotations	Just in time	CO2.Independent learning : Demonstrate the ability to acquire knowledge and business skills, the capacity for self directed activity and the ability to work independently.
	UCC WAS EC2(B)	Cost and Wor ks Acc ount ing II (Pra ctica l)	Materai al Accoun ting	Remuner ation and Incentive s	Inventory Control	Overhe ads	CO3.Knowledge and Critical Thinking : Acquire skills in organizing, analysing, evaluating and presenting information. Able to analysis issues logically, consider different options and viewpoints, make decisions and act with flexibility, adaptability and creativity.
B.Co m	UCB C241	Busi ness Com muni cations II	Letter Writing	Report Writing	Business Correspond ence	Internat ional Corresp ondenc e	CO3. This course will offer and understand the layout, essential qualities of business letters. The students can come to know various types of business letters and drafting of these letters.





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	UCB CSEC 3	Busi ness Com muni cati ons II	Letter Writing	Report Writing	Business Correspond ence	Internat ional Corresp ondenc e	CO3. This course will offer and understand the layout, essential qualities of business letters. The students can come to know various types of business letters and drafting of these letters.
B.Co m	UCC A241	Corp orate Acc ount ing II (Pra ctica l)	Invento ry Accoun ting and Pay roll Accoun ting	Liquidati on of company	Amalgamati on and Absorption	Account ing for constru ction	CO2. The course will help the students to get knowledge about corporate accounting procedure such as reconstruction of companies, amalgamation and absorption of companies.
B.Co m	UCB M241	Busi ness Man age ment II	Motivat ion, Leaders hip, Co- ordinati on, Control	Motivati on, Leadersh ip, Co- ordinati on, Control	Motivation, Leadership, Co- ordination, Control	Motivat ion, Leaders hip, Co- ordinati on, Control , Recent Trends	CO2. The course will help the students to adopt the right leadership style based on the exigencies of the situation, This will provide an understanding about recent trends in business management.





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B.Co m	UCC L241	Ele ment s of com pany Law II	Compa ny Formati on	Compan y Procedi ngs	Environmen t Issues.	Corpor ate social Respon sibilitie s	CO2.Communication Skill : Able to communicate effectively, analyse the concepts and participate in healthy arguments and portray skill in communication and in writing. Possess skills related with banking and other business.
B.Co m	UCM M241 (A)	Mar ketin g Man age ment II	Marketi ng Segmen tation	Marketin g Environ ment	e-marketing	Marketi ng researc h	CO3.Students will be demonstrate the ability to acquire knowledge and business skills the capacity for self directed activity and the ability to work independently
	UCM MSE C4(A)	Mar ketin g Man age ment II (Pra ctica l)	Marketi ng Segmen tation	Marketin g Environ ment	e-marketing	Marketi ng researc h	CO3.Students will be demonstrate the ability to acquire knowledge and business skills the capacity for self directed activity and the ability to work independently





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	UCC WA2 41(B)	Cost and Wor ks Acc ount ing II	Materai al Accoun ting	Remuner ation and Incentive s	Inventory Control	Overhe ads	CO3.Knowledge and Critical Thinking : Acquire skills in organizing, analysing, evaluating and presenting information. Able to analysis issues logically, consider different options and viewpoints, make decisions and act with flexibility, adaptability and creativity.
B.Co m	UCC WAS EC4(B)	Cost and Wor ks Acc ount ing II (Pra ctica l)	Materai al Accoun ting	Remuner ation and Incentive s	Inventory Control	Overhe ads	CO3.Knowledge and Critical Thinking : Acquire skills in organizing, analysing, evaluating and presenting information. Able to analysis issues logically, consider different options and viewpoints, make decisions and act with flexibility, adaptability and creativity.
B.Co m							





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B.Co m	COM BRF3 501	Busi ness Reg ulato ry Fra mew ork I	Indian Contra ct Act	Partnersh ip firm & LLP Procedur es	Agencies , Sale of goods Act	Global Issues	CO3.Knowledge and Critical Thinking : Acquire skills in organizing, analysing, evaluating and presenting information. Able to analysis issues logically, consider different options and viewpoints, make decisions and act with flexibility, adaptability and creativity.
B.Co m	COM AA35 02	Adv ance d Acc ount ing I	Final Accoun t of Bankin g Compa nies	Single Entry System	Ecommerce entity	Account ing Standar ds	CO3.Students will be demonstrate the ability to acquire knowledge to analysis issues logically, consider different options and viewpoints, make decisions
B.Co m	COM A350 4	Audi ting	Audit Progra mme	verificati on and Valuatio n of Assets	Audit Report	Auditin g and Assura nce Standar d	PO1.Students will be demonstrate the ability to acquire knowledge and business skills, the capacity for self directed activity and the ability to work independently.
B.Co m	COM MM M350 5 A	Mar ketin g Man age ment III	Rural Marketi ng Issues	Social Responsi bilities	Marketing Issues	Global Marketi ng Issues	CO2.Independent learning : Demonstrate the ability to acquire knowledge and business skills, the capacity for self directed activity and the ability to work independently





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B.Co m	COM CWA 3505 B	Cost and Wor ks Acc ount ing III	Accoun ting of Overhe ad	Absorpti on	Activity base Costing	Job costing	PO1.Acquire skills in organizing, analysing, evaluating and presenting information.
B.Co m	COM CWA 3506 B	Cost and Wor ks Acc ount ing IV	Margin al Costing	Budgetar y Costing	Uniform Costing	MIS in Costing	CO2.It would enable the students to acquaint the recent trends in the field of costing .
B.Co m	COM BRF3 601	Busi ness Reg ulato ry Fra mew ork II	Geogra phical Indicati ons	Consum ers Complai nts Issues	Trademark , copy Right Issues	Patents Proced ures	PO3.Knowledge and Critical Thinking : Acquire skills in organizing, analysing, evaluating and presenting information. Able to analysis issues logically, consider different options and viewpoints, make decisions and act with flexibility, adaptability and creativity.





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B.Co m	COM BRF3 602	Adv ance d Acc ount ing II	Final Accoun t of Cooper ative Society	GST	Ratio Analysis	Forensi c Accoun ting	CO3.This help students to getting the knowledge of fundamentals of accounting and update the knowledge of provisions of the Maharashtra Cooperative Society Act of 1960
B.Co m	COM T3604	Inco me Tax	Residen tial status and comput ation of Income Tax	Residenti al status and computat ion of Income Tax	Residential status and computation of Income Tax	Residen tial status and comput ation of Income Tax	CO1.It will help students to get knowledge about Income Tax Act and also get away regarding provision of residential status and incident of tax
B.Co m	COM MM M360 5 A	Mar ketin g Man age ment V	Agree Product s	Social Responsi bilities	Industrial Marketing Issues	Global Marketi ng Issues	CO3.Independent learning : Demonstrate the ability to acquire knowledge and business skills, the capacity for self directed activity and the ability to work independently
B.Co m	COM MM M360 6 A	Mar ketin g Man age ment VI	Marketi ng organiz ation	Marketin g Strategie s	Marketing Regulation	Globali zation	CO2.This will help the students to get in depth knowledge of marketing and salesmanship and its application in today's world.





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B.Co m	COM CWA 3605 B	Cost and Wor ks Acc ount ing V	Contra ct costing	Process Costing	Service Costing	Lifecyc le Costing	CO2.Acquire skills in organizing, analysing, evaluating and presenting information.
B.Co m	COM CWA 3606 B	Cost and Wor ks Acc ount ing VI	Standar d Costing	Noninteg rated Accounti ng	Cost Accounting Record Rules	Cost Audit	PO2.It would enable the students to acquaint the recent trends in the field of costing.
M. Com	COM- 501- MJM	Man age ment Acc ount ing	Applica tion of Manage ment Accoun ting	Ratio Analysis, Working Capital	Ratio Analysis, Working Capital	Ratio Analsi s, Workin g Capital	PO3.This will help the students to get in-depth knowledge about Management Accounting and its importance.
M. Com	COM- 502- MJM	Adv ance Acc ount ing	Accoun ting Principl es	Accounti ng Standards	Accounting Standards	IFRS	CO2.The course will help the students to get deep knowledge about basic accounting concepts which are universally accepted. He also aware about the accounting standards used in India.





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COM-503-MJM	COM-503-MJM	Income Tax	Residential status and computation of Income Tax	Residential status and computation of Income Tax	Residential status and computation of Income Tax	Residential status and computation of Income Tax	CO2.It will help students to get knowledge about Income Tax Act and also get away regarding provision of residential status and incident of tax
M. Com	COM-504-MJM	Strategic Management	Strategic Planning	Marketing Strategies	Development of Strategies	Implementation of Strategies at Global level	CO4.The course will help the students to get a thorough knowledge about strategic management.
M. Com	COM-511-MJE(A)	Production and Operation Management	Production and Operation Management	Production Planning	Supply Chain Management	Total Quality Management	CO1. Accurately describe the concepts related to production and operation management in their day to day life or professional life.
M. Com	COM-511-MJE(B)	Advanced Cost Accounting	Introduction to Cost Accounting	Cost Sheet	Material Cost	Labour Cost	CO1. Students are expected to demonstrate a comprehensive understanding of the objectives, significance, and applications of cost accounting.





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M. Com	COM-511-MJE(C)	Marketing Techniques	Introduction to Marketing	Segmentation	Marketing Environment	Marketing Mix	CO1. Accurately describe the various concepts, principles, framework and terms related to the functions and role of marketing. Also describe the impact of globalization on marketing.
M. Com	COM-521-RM	Research Methodology for Business	Research methodology	Research methodology	Research methodology	Research methodology	CO2. The course offers to the under graduate students to learn about the various applications of research methodology, role of research methodology in the business.
M. Com	COM-551-MJM	Financial Analysis and Control	Cost of Capital, Marginal Costing	Budget, budgetary Control	Budget, Investment Decision	Budget, Investment Decision	CO2. This will help the students to enable students to acquire sound knowledge of Concepts, methods and techniques of management accounting
M. Com	COM-552-MJM	Specialized Areas in Accounting	Accounting Standards	Accounting Standards	IFRS	IFRS	CO3. The course will help the students to get knowledge about International Financial Reporting Standards. It would be aware about the accounting treatments for corporate restructuring.





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M. Com	COM-553-MJM	Business Tax Assessment	Assessment and Planning	GST	GST	GST	CO3. It would enable the students to acquaint the recent trends in the field of Business Tax Assessment and Planning.
M. Com	COM-554-MJM	Industrial Economics	Industrial Location issues	Industrial Efficiency and Productivity	Regional Industrial Imbalance	Foreign Capital	CO2. The course will be able to apply economic theories and methodologies in Industrial Location issues in various determinants of the size and structure of industries.
M. Com	COM-561-MJE(A)	Financial Management	Introduction to Financial Management	Financing Decision and Cost of Capital	Corporate Restructuring	Leverage and Capital Structure Analysis	CO1. Accurately describe the concepts related to financial management in their day to day life or professional life.
M. Com	COM-561-MJE(B)	Costing Techniques and Responsibility Accounting	Budgeting	Standard Costing	Uniform Costing	Responsibility Accounting	CO1. Students will be able to classify and apply various types of budgets to support effective financial planning and control.





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M. Com	COM-561-MJE(C)	Consumer Behaviour	Buyer Behaviour	Market Segmentation	Physical Distribution & Promotion	Product & Pricing	CO2. It will develop the basic knowledge of market segmentation to be successful modern marketer.
M. Com	PCCO 231	Business Finance	Sources of Finance	Financial Planning	Working Capital Management	Equity and Debt	CO3. Students will understand the characteristics of different financial assets such as money market instruments, bonds, and stocks and how to buy and sell these assets in Capital Markets.
M. Com	PCCO 232	Research Methodology for Business	Research methodology	Research methodology	Research methodology	Research methodology	CO2. The course offers to the under graduate students to learn about the various applications of research methodology, role of research methodology in the business.
M. Com	PCCO 233	Advanced Auditing	Auditing	Audit of Limited Companies	Corporate Governance	CIS Environment	PO3. This course will enable students about audit process and procedure to be conducted in corporate sector. Course will also make them able to find out the frauds and errors which may occur in various types of companies.





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M. Com	PCCO 234	Specialized Areas in Auditing	Audit of cooperative societies,	Audit of specialized units	Government system of audit	Audit of Bank	CO3.Students will be acquiring skills in organizing analysing evaluating and presenting information skill
M. Com	PCCO 241	Capital Market and Financial services	Capital Market, Stock Market, Financial services, Regulatory Framework for Financial Services	Capital Market, Stock Market, Financial services, Regulatory Framework for Financial Services	Capital Market, Stock Market, Financial Services, Regulatory Framework for Financial Services	Capital Market, Stock Market, Financial Services, Regulatory Framework for Financial Services	PO2.Students will be knowledgeable of domestic and international economy and organizational environment knowledge of ethics and ethical standard
M. Com	PCCO 242	Industrial Economic Environment	Industrialization	Economic Environment	Industrial Pollution	Stand up and Startup	PO3.This course will understand the basic concepts of Industrial Finance. It will develop awareness regarding various industrial and environmental issues in India.





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M. Com	PCCO 243	Recent trends in Accounting, Taxation	Recent Trends in Accounting, Frauds and Errors	GST and Carben Credit	Accounting for Government and Non-government organization	Accounting and Audit Procedure for Corporate Affairs	CO3.This course will enable students about recent trends in accounting, auditing and taxation field. Course will also make them able to find out the frauds and errors which may occur in various sectors.
	PCCO 244	Recent trends In Auditing	Tax Audit under Income Tax Act	Forensic Audit	Audit under GST Law	New Trends in Auditing	CO1. The students will impart about income tax audit, its significance and provisions related to tax audit under Income Tax Act, 1961.
	PCCO 245	Project Work	Financial Analysis	Ratio Analysis	Financial Reporting	IFRS	CO1. Accurately describe the concepts related to project in their day to day life or professional life.
DTL							
DTL	PGDT L111	General Law Affecting Taxation	Hindu Succession Act 1956	e Indian Penal Code	Civil Procedure,	Information Technology Act 2005	CO3.The course will provide understanding and working knowledge of Indian Penal Code, Civil Procedure, Right to Information Act and Information Technology Act.





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DTL	PGDT L112	Income Tax	HEADS OF INCOME: SALARIES	CAPITAL GAINS AND OTHER SOURCES	ASSESSMENT OF COMPANIES AND FIRM:	RETURN, PENALTIES & OFFENCES:	CO3.The students will acquire the knowledge of various provisions of Income Tax Act, 1961. The course will impart the knowledge of the provisions of penalties, offences and prosecutions under IT Act.
DTL	PGDT L113	Goods & Services Tax	INTRODUCTION TO CGST	REGISTRATION	TAX INVOICE, ACCOUNTS, RECORDS	Refund of integrated tax	CO4.The students will acquire the knowledge of various provisions of Goods & Services Tax Act, 2017. Students will acquire practical skills to work as tax consultant, audit assistant etc.
DTL	PGDT L114	Custom Act	Prohibition On Importation and Exportation of Goods	Levy And Exemptions from Custom Duties	Provision Relating to Convenience Imports and Exports Goods Service	Settlement of Cases,	CO2.The students will acquire the knowledge of various provisions of Custom Act. The course will develop professional skill among the students to work as tax consultant, audit assistant etc.
DTL	PGDT L115	Business Accounting Practices	Accounts for Non-Profit Organization:	Accounting for Hotel Industry	Goods and Services Tax Accounting	Computerized Accounting Environment:	CO3.The students will acquire the knowledge of basic accounting procedure.The course will impart the knowledge of Accounts for Non-Profit Organization.





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BOTANY

Programe	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
			Local	National	Regional	Global	
F. Y. B.Sc.	BO T-101 - MJM	Diversity of Cryptogams	Scope and importance, awareness and need of conservation.	Scope and importance, awareness and need of conservation.	Scope and importance, awareness and need of conservation.	Scope and importance, awareness and need of conservation.	PO 8: Environment and Sustainability. CO6. Knowledge about habitat conservation of cryptogam's diversity.
	BOT-102-MJM	Industrial Botany - I	Knowledge about natural and artificial propagation methods.	Knowledge about natural and artificial propagation methods.	Knowledge about natural and artificial propagation methods.	Knowledge about natural and artificial propagation methods.	PO1: Disciplinary Knowledge. CO2. Knowledge about natural and artificial propagation methods.
	BO T-	Botany Practical - I	Knowledge about morphology	Knowledge about morphology	Knowledge about morphology	Knowledge about morphology	PO1: Disciplinary Knowledge.





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	103-MJM		ical and anatomical variations in cryptogams.	ical and anatomical variations in cryptogams.	ical and anatomical variations in cryptogams.	ical and anatomical variations in cryptogams.	CO2. Knowledge of morphological and anatomical variations in cryptogams.
	BO T-116-OE	Horticulture	Scope of horticulture with special reference to production, export and import of fruits and vegetables.	Scope of horticulture with special reference to production, export and import of fruits and vegetables.	Scope of horticulture with special reference to production, export and import of fruits and vegetables.	Scope of horticulture with special reference to production, export and import of fruits and vegetables.	PO 9: Self-directed and Life-long Learning CO7. Develop entrepreneurship in horticulture.
	BO T-117-OE	Floriculture	Practical knowledge of different horticultural practices of floricultural crops.	Practical knowledge of different horticultural practices of floricultural crops.	Practical knowledge of different horticultural practices of floricultural crops.	Practical knowledge of different horticultural practices of floricultural crops.	PO1: Disciplinary Knowledge CO2. Knowledge of horticultural practices of floricultural crops.
	BO T-121	Organic Farming	Importance of	Importance of	Importance of	Importance of	PO1: Disciplinary Knowledge





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	- VS C		Organic Farming	Organic Farming	Organic Farming	Organic Farming	CO3. Get knowledge of inorganic and organic fertilizers based industries.
	BO T-126 - SE C	Fruit Processing	Value addition Fruit products.	Value addition Fruit products.	Value addition Fruit products.	Value addition Fruit products.	PO1: Disciplinary Knowledge CO2. Get importance of value addition in Fruit products.
	BO T-137 - IKS	Botany in Ayurveda	Ayurvedic methods for collection and storage of crude drugs.	Ayurvedic methods for collection and storage of crude drugs.	Ayurvedic methods for collection and storage of crude drugs.	Ayurvedic methods for collection and storage of crude drugs.	PO1: Disciplinary Knowledge CO1. Aware the importance of Ayurveda and its principles.
F. Y. B.Sc. Sem. II	BO T-151- MJM	Diversity of Phanerogams	Awareness about the local flora with respect to Phanerogams.	Awareness about the local flora with respect to Phanerogams.	Awareness about the local flora with respect to Phanerogams.	Awareness about the local flora with respect to Phanerogams.	PO 4: Research-related skills and Scientific temper.





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							CO4. Know different methods of conser vation of Phaner ogams.
	B O T- 15 2- MJ M	Industria l Botany - II	Organic farming with respect to Biopestici de and Biofertiliz ers.	Organic farming with respect to Biopestici de and Biofertiliz ers.	Organic farming with respect to Biopestici de and Biofertiliz ers.	Organic farming with respect to Biopestici de and Biofertiliz ers.	PO2: Critical Thinking and Proble m Solving. CO2. Acquire knowledge of organi c farming with respec t to Biopestici de and Biofertiliz ers.
	B O T- 15 3- MJ M	Botany Practical - II	Identificati on of the Phaneroga ms.	Identificati on of the Phaneroga ms.	Identificati on of the Phaneroga ms.	Identificati on of the Phaneroga ms.	PO2: Critical Thinking and Proble m Solving CO2. Identify the Phanerogam s.





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BO T- 161 - MN	Gardeni ng and Nursery Manage ment	Knowledg e about tools, equipment 's and growing structures in nursery.	Knowledg e about tools, equipment 's and growing structures in nursery.	Knowledg e about tools, equipment 's and growing structures in nursery.	Knowledg e about tools, equipment 's and growing structures in nursery.	PO1: Disciplinary Knowledge CO3. Get knowledge about tools, equip ment's and growing structu res in nursery.
BO T- 166 -OE	Economi c Botany	Importan t plants utilized as food, fiber, fodder, medicine, dye.	Importan t plants utilized as food, fiber, fodder, medicine, dye.	Importan t plants utilized as food, fiber, fodder, medicine, dye.	Importan t plants utilized as food, fiber, fodder, medicine, dye.	PO2: Critical Thinking and Proble m Solving CO2. Utilize knowledge about plants utilized in food, fiber, fodder, medicine, dye.
BO T- 167 -OE	Seed Technol ogy	Seed quality through practical technique such as germinatio n testing and seed dormancy	Seed quality through practical technique such as germinatio n testing and seed dormancy	Seed quality through practical technique such as germinatio n testing and seed dormancy	Seed quality through practical technique such as germinatio n testing and seed dormancy	PO 3: Social competence CO2. Developmen t of proficiency in seed cleaning, sorting,





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			and seed health analysis.	and seed health analysis.	and seed health analysis.	and seed health analysis.	and conditioning process to ensure production of high quality seeds.
	BO T-171 - VS C	Plant Tissue Culture	Importance of plant tissue culture technique.	Importance of plant tissue culture technique.	Importance of plant tissue culture technique.	Importance of plant tissue culture technique.	PO2: Critical Thinking and Problem Solving CO2. Students will be able to understand the importance of plant tissue culture technique.
	BO T-176 - SE C	Mushroom Cultivation	Hands-on training for the preparation of bed for mushroom cultivation	Hands-on training for the preparation of bed for mushroom cultivation	Hands-on training for the preparation of bed for mushroom cultivation	Hands-on training for the preparation of bed for mushroom cultivation	PO 4: Research-related skills and Scientific temper CO3. Get skills of hands-on training for the preparat





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							ion of bed for mushroom cultivation.
M.Sc. I Sem. I	BO T - 501 - MJ M	Plant Systematics-I	Knowledge of Cryptogamic diversity.	Knowledge of Cryptogamic diversity.	Knowledge of Cryptogamic diversity.	Knowledge of Cryptogamic diversity.	PO1: Disciplinary Knowledge. CO1. Get knowledge about cryptogams to conserve Cryptogamic diversity.
	BO T - 502 - MJ M	Cell Biology	Various aspect of Cell biology.	Various aspect of Cell biology.	Various aspect of Cell biology.	Various aspect of Cell biology.	PO1: Disciplinary Knowledge CO3. Describe the structure and function of cell membrane.
	BO T - 503 - MJ M	Botany Laboratory-I	Identification and study of methods of reproduction of cryptogams and ultrastructure of cell organelles.	Identification and study of methods of reproduction of cryptogams and ultrastructure of cell organelles.	Identification and study of methods of reproduction of cryptogams and ultrastructure of cell organelles.	Identification and study of methods of reproduction of cryptogams and ultrastructure of cell organelles.	PO 4: Research-related skills and Scientific temper. CO1. Develop identification





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							n skill in cryptogams.
	BO T - 504 - MJ M	Botany laborator y –II	Structure of cell organelles and their functions	Structure of cell organelles and their functions	Structure of cell organelles and their functions	Structure of cell organelles and their functions	PO1: Disciplinary Knowledge CO4. Understand basic knowledge about structure of cell organell es.
	BO T - 511 - MJ E (A)	Genetics and Plant breeding	Knowledg e of genetic code, gene expression and regulation.	Knowledg e of genetic code, gene expression and regulation.	Knowledg e of genetic code, gene expression and regulation.	Knowledg e of genetic code, gene expression and regulation.	PO1: Disciplinary Knowledge CO4. Get knowledge about gene expressi on and regulation of gene.
	BO T - 511 - MJ E (B)	Advance d Botanica l Techniq ues	Different electroche mical techniques and DNA sequencing	Different electroche mical techniques and DNA sequencing	Different electroche mical techniques and DNA sequencing	Different electroche mical techniques and DNA sequencing	PO5: Trans- disciplinary Knowle dge. CO6.Unders tand DNA sequencing techniq ues.





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	BO T - 521 - RM	Research Methodology	Analysis of research data.	Analysis of research data.	Analysis of research data.	Analysis of research data.	PO 4: Research- related skills and Scientific temper. CO1. Develop skills of research method ology.
M.Sc. I Sem. II	BO T - 551 - MJ M	Plant Systematics II	Identify and classify taxonomy of pteridophy tes and gymnosper ms.	Identify and classify taxonomy of pteridophy tes and gymnosper ms.	Identify and classify taxonomy of pteridophy tes and gymnosper ms.	Identify and classify taxonomy of pteridophy tes and gymnosper ms.	PO1: Disciplinary Knowledge CO1. Taxonomy gives accurate identific ation and classific ation of these plant groups.
	BO T - 552 - MJ M	Plant physiology and Biochemistry	Knowledg e of physiobioc hemical processes that occurs in plants.	Knowledg e of physiobioc hemical processes that occurs in plants.	Knowledg e of physiobioc hemical processes that occurs in plants.	Knowledg e of physiobioc hemical processes that occurs in plants.	PO1: Disciplinary Knowledge CO3. Understandi ng of transpir ation, photosynthe sis and respiration,





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							nutrient uptake.
	BO T - 553 - MJ M	Botany laborator y -I	Comparati ve analysis of the reproducti ve and vegetative structures.	Comparati ve analysis of the reproducti ve and vegetative structures.	Comparati ve analysis of the reproducti ve and vegetative structures.	Comparati ve analysis of the reproducti ve and vegetative structures.	PO2: Critical Thinking and Problem Solving. CO1. Students will be able to accurate ly identify and classify Pteridophyte specime ns.
	BO T - 554 - MJ M	Botany Laborato ry –II	Physiologi cal processes that govern plant growth.	Physiologi cal processes that govern plant growth.	Physiologi cal processes that govern plant growth.	Physiologi cal processes that govern plant growth.	PO 4: Research- related skills and Scientifi c temper. CO1. Expertise in conducting a variety of plant physiology and biochemistr y experim ents.





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	BO T - 561 - MJ E (A)	Molecul ar Biology and Genetic Engineer ing	Recombin ant DNA technology	Recombin ant DNA technology	Recombin ant DNA technology	Recombin ant DNA technology	PO2: Critical Thinking and Problem Solving. CO2. Perform techniques such as PCR, DNA cloning.
	BO T - 581 - OJT /FP	On Job Training Field Project	Writing of review and case studies	Writing of review and case studies	Writing of review and case studies	Writing of review and case studies	PO1: Disciplinary Knowledge. CO2 Write of review.
S. Y. B.Sc. Sem. III	US BT 231	Taxono my of Angiosp erms	Identificati on of plants and their nomenclat ure.	Identificati on of plants and their nomenclat ure.	Identificati on of plants and their nomenclat ure.	Identificati on of plants and their nomenclat ure.	PO2: Critical Thinking and Problem Solving. CO2. Identif y, describe and study in detail life cycle of Phanero gams.
	US BT 232	Plant Physiolo gy	Scope and applicati ons of plant physiology , Contributi	Scope and applicati ons of plant physiology , Contributi	Scope and applicati ons of plant physiology , Contributi	Scope and applicati ons of plant physiology , Contributi	PO 4: Research- related skills and Scientifi c temper





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			on of some Indian physiologist.	on of some Indian physiologist.	on of some Indian physiologist.	on of some Indian physiologist.	CO3. Students get knowledge of internal activities in plant.
	US BT 233	Practical based on USBT 231 and USBT 232	Physiological processes occurring in plants.	Physiological processes occurring in plants.	Physiological processes occurring in plants.	Physiological processes occurring in plants.	PO 4: Research-related skills and Scientific temper CO1. Develop identification skill in cryptogams.
S. Y. B.Sc. Sem. IV	US BT 241	Anatomy and Embryology	Internal structure of plant and its organs.	Internal structure of plant and its organs.	Internal structure of plant and its organs.	Internal structure of plant and its organs.	PO1: Disciplinary Knowledge CO1. Students get knowledge of internal structure of tissue system in plant.
	US BT 242	Plant Ecology	Ecological adaptations and ecological successions	Ecological adaptations and ecological successions	Ecological adaptations and ecological successions	Ecological adaptations and ecological successions	PO 4: Research-related skills and Scientific temper





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							CO4.Gain the proficiency in the identification of cryptogams
	US BT 243	Practical based on USBT 241 and BOT 242	Applications of anatomy, embryology and ecology in recent advances in plant sciences.	Applications of anatomy, embryology and ecology in recent advances in plant sciences.	Applications of anatomy, embryology and ecology in recent advances in plant sciences.	Applications of anatomy, embryology and ecology in recent advances in plant sciences.	PO2: Critical Thinking and Problem Solving CO5. Students should know the practical applications of anatomy, embryology and ecology in recent advances in plant sciences.
M.Sc. II Sem. III	PSBT 231	Angiosperms and Evolution	Morphological and taxonomic diversity of flora.	Morphological and taxonomic diversity of flora.	Morphological and taxonomic diversity of flora.	Morphological and taxonomic diversity of flora.	PO1: Disciplinary Knowledge CO6.Describe and identify the flowering plants.





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	PSB T 232	Develop mental Botany	Different embryolog ical techniques	Different embryolog ical techniques	Different embryolog ical techniques	Different embryolog ical techniques	PO1: Disciplinary Knowledge CO6. Describe and identify the flowerin g plants.
	PSB T 233	Comput ational Botany	Different software's used in bioinforma tics.	Different software's used in bioinforma tics.	Different software's used in bioinforma tics.	Different software's used in bioinforma tics.	PO2: Critical Thinking and Problem Solving CO1. Students will be expert in use of computer to solve biologic al problems.
	PSB T 234 A	Advance d Plant Physiolo gy	Physiology of flowering plant.	Physiology of flowering plant.	Physiology of flowering plant.	Physiology of flowering plant.	PO 4: Research- related skills and Scientifi c temper CO4. Get expertise in skills of crop improvement and plant





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							producti on.
	PSB T 234 B	Advance d Mycolog y and Plant Patholog y	Industrial, agricultura l and medicinal potential of fungi.	Industrial, agricultura l and medicinal potential of fungi.	Industrial, agricultura l and medicinal potential of fungi.	Industrial, agricultura l and medicinal potential of fungi.	PO1: Disciplinary Knowledge CO6. Understand Industrial and biotech nological applications of fungi.
	PSB T 234 C	Bryolog y	Ex-situ conservati on techniques	Ex-situ conservati on techniques	Ex-situ conservati on techniques	Ex-situ conservati on techniques	PO1: Disciplinary Knowledge CO5. Students are able to develop Ex-Situ conservation techniq ues of bryophytes
	PSB T 234 D	Angiosp erm taxonom y	Classificati on and taxonomy of Angiosper ms	Classificati on and taxonomy of Angiosper ms	Classificati on and taxonomy of Angiosper ms	Classificati on and taxonomy of Angiosper ms	PO1: Disciplinary Knowledge CO2. Importance and need for classific ation, hierarchical





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							classification.
	PSB T 235	Practicals Based on PSBT 231, 232 and 233	Taxonomical, embryological, computational techniques	Taxonomical, embryological, computational techniques	Taxonomical, embryological, computational techniques	Taxonomical, embryological, computational techniques	PO 4: Research-related skills and Scientific temper CO1. Develop identification skill in cryptogams.
	PSB T 236 A	Practicals based on special paper Advanced Plant Physiology	Experimental methodologies for crop physiology	Experimental methodologies for crop physiology	Experimental methodologies for crop physiology	Experimental methodologies for crop physiology	PO 4: Research-related skills and Scientific temper. CO7. Students get knowledge of biomolecules.
	PSB T 236 B	Practicals based on special paper Advanced Mycology and Plant	Industrially and agriculturally useful fungi for its biological potential.	Industrially and agriculturally useful fungi for its biological potential.	Industrially and agriculturally useful fungi for its biological potential.	Industrially and agriculturally useful fungi for its biological potential.	PO1: Disciplinary Knowledge. CO6. Understand Industrial and biotechnological applications





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		Pathology					of fungi.
	PSB T 236 C	Practicals based on special paper Bryology	In-situ conservation	In-situ conservation	In-situ conservation	In-situ conservation	PO1: Disciplinary Knowledge CO5. Students are able to develop Ex-Situ conservation techniques of bryophytes.
	PSB T 236 D	Practicals based on special paper Angiosperm Taxonomy	Classification and taxonomy of Angiosperms	Classification and taxonomy of Angiosperms	Classification and taxonomy of Angiosperms	Classification and taxonomy of Angiosperms	PO1: Disciplinary Knowledge CO2. Importance and need for class ification, hierarchical class ification.
M.Sc. II Sem. IV	PSB T 241	Plant Pathology	Plant disease epidemiology and forecasting of plant disease epidemics.	Plant disease epidemiology and forecasting of plant disease epidemics.	Plant disease epidemiology and forecasting of plant disease epidemics.	Plant disease epidemiology and forecasting of plant disease epidemics.	PO1: Disciplinary Knowledge CO2. Plant disease epidemiology and forecasting of plant





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							disease epidemics agricultural crop diseases.
	PSB T 242	Industrial Botany	Nutrition garden and entrepreneurship	Nutrition garden and entrepreneurship	Nutrition garden and entrepreneurship	Nutrition garden and entrepreneurship	PO 9: Self-directed and Life-long Learning. CO7. Learn nutrition garden and entrepreneurship.
	PSB T 243	Plant Biotechnology	Fundamental aspects of plant tissue culture for the production of transgenic plant.	Fundamental aspects of plant tissue culture for the production of transgenic plant.	Fundamental aspects of plant tissue culture for the production of transgenic plant.	Fundamental aspects of plant tissue culture for the production of transgenic plant.	PO 9: Self-directed and Life-long Learning. CO2. Expertise in micropropagation techniques.
	PSB T 244 A	Advanced Plant Physiology OR	Allelochemicals and their application.	Allelochemicals and their application.	Allelochemicals and their application.	Allelochemicals and their application.	PO1: Disciplinary Knowledge CO7. Students get knowledge of biomolecules





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PSB T 244 B	Advanced Mycology and Plant Pathology	Application of primary and secondary metabolites of fungi.	Application of primary and secondary metabolites of fungi.	Application of primary and secondary metabolites of fungi.	Application of primary and secondary metabolites of fungi.	PO2: Critical Thinking and Problem Solving CO1. Analyze primary and secondary metabolites of fungi.
PSB T 244 C	Bryology	In-situ and Ex-situ conservation techniques	In-situ and Ex-situ conservation techniques	In-situ and Ex-situ conservation techniques	In-situ and Ex-situ conservation techniques	PO1: Disciplinary Knowledge CO5. Students are able to develop Ex-Situ conservation techniques of bryophytes.
PSB T 244 D	Angiosperm taxonomy	Importance and need for classification, hierarchical classification.	Importance and need for classification, hierarchical classification.	Importance and need for classification, hierarchical classification.	Importance and need for classification, hierarchical classification.	PO1: Disciplinary Knowledge CO2. Importance and need for classification, hierarchical classification.





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	PSB T 245	Practical s Based on 241, 242 and 243	Isolation of fungal pathogens from leaves, stem and roots by cultural methods.	Isolation of fungal pathogens from leaves, stem and roots by cultural methods.	Isolation of fungal pathogens from leaves, stem and roots by cultural methods.	Isolation of fungal pathogens from leaves, stem and roots by cultural methods.	PO6: Personal and Professional Compet ence. CO2. Know the techniques isolation of fungal pathogens from leaves, stem and roots by cultural methods.
	PSB T 246	Researc h Projects and Summer Training	Required for writing of review and case studies	Required for writing of review and case studies	Required for writing of review and case studies	Required for writing of review and case studies	PO1: Disciplinary Knowledge CO3. Understand the review of literatur e.





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CHEMISTRY

Programme	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
			Local	National	Regional	Global	
M.Sc.I Chemistry (PG)	CH E- 501 - MJ M	Physical and Analytical Chemistry	Laws of thermodynamics	Laws of thermodynamics	Laws of thermodynamics	Laws of thermodynamics	CO2: CO1. Student should understand the thermodynamic concepts in detail CO6: Introduction to Good Laboratory Practices and its applications PO1: Student should understand the discipline





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							ry knowledg e.
CH E- 502 - MJ M	Organi c and Inorga nic Chemi stry I	Molecular Symmetry and Steriochemi stry	Molecular Symmetry and Steriochemi stry	Molecular Symmetry and Steriochemi stry	Molecular Symmetry and Steriochemi stry	CO1: Students will be able to give correct nomencla ture to organic compoun ds CO8: Students will be able to understan d the concept and point group and apply it to molecule PO2: To understan d basic principles and applicatio	





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							ns of stereochemistry by using models
CH E-521 - RM	Research Methodology	Concept of research and methodology	Concept of research and methodology	Concept of research and methodology	Concept of research and methodology	Concept of research and methodology	CO1. Equip themselves with ethical issues related to Research and Publication. CO2. Build a strong foundation for future research work in a systematic manner by applying notions





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							of Research Methodology
							PO 2: student should develop the critical thinking.
CH E-511 - MJE (A)	Advanced topics in Analytical chemistry	Safety health in Chemical Laboratory	Safety health in Chemical Laboratory	Safety health in Chemical Laboratory	Safety health in Chemical Laboratory	Safety health in Chemical Laboratory	CO1: Importance of safety and health in laboratory PO1: Apply knowledge





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							e about widely used analytical instruments
CH E-511 - MJE (B)	Advanced topics in Inorganic Chemistry	Chemistry of S and P block Elements	Chemistry of S and P block Elements	Chemistry of S and P block Elements	Chemistry of S and P block Elements	CO1: Student should understand the detail chemistry of S and P block elements CO4: Students should be able to understand Organometallic chemistry and organometallic compounds as catalysis	





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							PO2: students will be able to Student will be able to know the utilizatio n of various instrume ntal technique s for separatio n and chemical analysis
CH E- 511 - MJ E (C)	Advan ced topics in Organi c chemis try	Oxidative, Reductive Reactions	Oxidative, Reductive Reactions	Oxidative, Reductive Reactions	Oxidative, Reductive Reactions	CO1. Students will able to differenti ate different reaction intermedi ates formed during	





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							chemical reactions CO2. Students will learn what is rearrangement reactions. PO1: Student should understand workup of the reaction and purification by different techniques.
CH E-503 - MJM	Physical Chemistry Practical	Physical Chemistry Practical	Physical Chemistry Practical	Physical Chemistry Practical	Physical Chemistry Practical	Physical Chemistry Practical	CO1. Student should understand the principles & applications of





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							instrument s in detail CO2.Stud ent should understan d handling of UV Visible spectroph otometer. PO2: Critical thinking and problem solving, to develop effective laboratory practices
CH E- 504 - MJ M	Organi c Chemi stry Practic al	Separation and Purification	Separation and Purification	Separation and Purificatio n	Separation and Purification	CO1.Stud ent should understan d reaction condition s and reagent used.	





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							CO2.Stu dent should understan d workup of the reaction and purificati on by different technique s. PO2: Critical thinking and problem solving, to develop effective laboratory practices
CH E- 551 - MJ M	Physic al and Analyt ical chemis try II	Concept of Instruments, Chemical Stoichioche mistry	Concept of Instruments , Chemical Stoichioche mistry	Concept of Instruments , Chemical Stoichioche mistry	Concept of Instruments , Chemical Stoichioche mistry	Concept of Instruments , Chemical Stoichioche mistry	CO5:Adv ance concepts of chemical Stoichiom etry,





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							instrumen ts PO2: Students will come to know the laws of photoche mistry
CH E- 552 - MJ M	Organi c and Inorga nic Chemi stry II	Spectroscop y and Coordinatio n Chemistry	Spectrosc opy and Coordinati on Chemistry	Spectroscop y and Coordinatio n Chemistry	Spectroscop y and Coordinatio n Chemistry	CO1: Aware about use o flammable and hazardous chemicals. PO6: Stud ents will be able to demonstr ate accurate quantitati ve analysis.	
CH E- 553 - MJ M	Inorga nic Chemi stry Practic al	Inorganic chemistry Experiment	Inorg anic chem istry Experiment	Inorganic chemistry Expe rime nt	Inorganic chemistry Expe rime nt	CO1: To demonstr ate the ability to synthesize, characteriz e	





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							compound s, standard laboratory equipment, protocols PO6:Stude nts will be able to demonstr ate accurate quantitati ve analysis
	CH E- 554 - MJ M	Analyt ical Chemi stry Practic al	Good Laboratory Practices and its applications	Good Laborator y Practices and its applicatio ns	Good Laborator y Practices and its applicatio ns	Good Laborator y Practices and its applicatio ns	CO1:Awa re about use of flammabl e and hazardous chemicals . PO6:Stud ents will be able to demonstr ate accurate quantitati ve analysis.
	CH E- 561	Advan ced topic	Spectroscop y and	Spectroscop y and	Spectroscop y and	Spectrosc opy and	CO1: Students will be





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- MJ E(A)	in analyti cal chemis try II	Biochemistr y	Biochemistr y	Biochemistr y	Biochemis try	able to learn about Spectrosc opy and Biochemi stry PO2: Students will come to know the laws of photoche mistry
CH E- 561 - MJ E(B)	Advan ced topic in Inorga nic chemis try II	Bioinorgani c and Nanomateri als	Bioinorgani c and Nanomateri als	Bioinorgani c and Nanomateri als	Bioinorga nic and Nanomate rials	CO1: Students should able to learn concepts of bioinorga nic and synthesis of nanomate rials PO1: To develop thinking about





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							synthesis of nanomaterials, its importance PO2: To learn about bioinorganic concepts
	CH E-561 - MJ E(C)	Advanced topic in Organic chemistry II	Predict the stereochemistry	Applications of pericyclic reactions	Applications of pericyclic reactions	Applications of pericyclic reactions	CO1: analyze the stereochemical outcomes of pericyclic reactions and predict the stereochemistry PO1: students will be equipped to understand





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							d & evaluate the role of photochemical process
	CH E-581 - OJT/FP	OJT/FP relevant to the major course	Effective Communication Skill	Prepare Individual Successful integration, long term career growth & advancement	Prepare Individual Successful integration, long term career growth & advancement	Prepare Individual Successful integration, long term career growth & advancement	CO1: To develop the ability to prioritize tasks, manage time. PO1: Students will demonstrate proficiency in executing job specific tasks





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Programe	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
			Local	National	Regional	Global	
MSc II Organic Chemistry (PG)	PSCH O231	Designing of organic synthesis and Heterocyclic Chemistry	--	Protection and deprotection of functional groups in drugs	Protection and deprotection of functional groups in drugs	Protection and deprotection of functional groups in drugs	CO2: Protection and deprotection of important functional groups. CO1: understand various methods of Carbanion generation and their applications in Organic Synthesis. PO1: Retrosynthesis of target molecule to the simple starting material
	PSCH O232	Spectroscopic Methods	--	Solve the simple to moderate	Solve the simple to moderate	Solve the simple to moderate	CO2: Student should understand





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		in Structure Determinat ion		spectroscopy problems	spectrosc opy problems	spectrosc opy problems	the Chemical shifts and factors affecting chemical shifts CO1: understand how to interpret nuclear magnetic resonance spectrum. PO1:Student should understand first order and second order spectra
	PSCH O233	Organic Stereoche mistry-I and Organic Reaction Mechanis m	---	Axial and equatorialsubs tituents.	Axial and equatorial substituen ts. .	Axial and equatorial substituen ts. .	CO2: will be able to draw the stereochemi cal structures of different molecules. CO1:Student should understand nomenclatur e of fused, bridged and





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							<p>caged ring system.</p> <p>PO1:Student should understand the reactivity and stability of carbanion, carbenes and nitrenes.</p> <p>PO2:Student should understand formation and applications of enamines.</p>
	PSCH O234	Photochemistry, Free radicals and Pericyclic Reactions	---	Basic principles, photochemistry	Basic principles , photochemistry	Basic principles , photochemistry	<p>CO1: understand various Pericyclic and photochemical reactions and rearrangements.</p> <p>CO2:Student should understand basic</p>





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							principles, photochemistry of carbonyl compounds, alkenes, dienes and aromatic compounds. PO1: Student should understand mechanism and product formation in different photochemical reactions.
	PSCH O235	Single stage preparations	---	Handling of single step reactions.	Handling of single step reactions.	Handling of single step reactions.	CO1: Student should understand workup of the reaction and purification by different techniques. PO1: Student should be able to take melting and





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							boiling point of products.
	PSCH O236	Double and multiple stage preparations	---	Handling of double and multiple step synthesis	Handling of double and multiple step synthesis.	Handling of double and multiple step synthesis.	CO1: Student should understand reaction conditions and reagent used for different steps. PO2: Student should understand workup of the reaction and purification by different techniques





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Programme	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
			Local	National	Regional	Global	
M. Sc.II Organic (PG)	PSCH O241	Chemistry of Natural Products-I	---	Understand the isolation extraction and separation of natural product.	Understand the isolation extraction and separation of natural product.	Understand the isolation extraction and separation of natural product.	CO1: Student can learn different methods of extraction, separation and purification of Natural products. CO2: Students can learn characterization of natural product by spectral techniques. PO1: Students will expertise in the synthesis of different types of natural product
	PSCH O242	Advanced Synthetic Organic Chemistry	---	Study the importance of green chemistry	Study the importance of green chemistry	Study the importance of green chemistry	CO1: Industrial applications of organometallic compounds in organic reactions. PO1: Students will be expertise in various coupling reactions PO2: Students will get knowledge of green chemistry and various transformation related to green chemistry





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PSCH O243	Biomolecules, Organic chemistry of drug design and chiral drugs	---	Study of carbohydrates importance of amino acid, enzyme, protein and lipid	Study of carbohydrates importance of amino acid, enzyme, protein and lipid	Study of carbohydrates importance of amino acid, enzyme, protein and lipid	CO1: understand the stereochemistry of carbohydrates and their reactions. PO1: Students will get knowledge of organic chemistry in drug design PO2: Students will learn in detail chemistry of amino acid, protein, enzymes and lipid
PSCH O244	Organic stereochemistry II and Asymmetric Synthesis	---	study the importance of asymmetric synthesis	study the importance of asymmetric synthesis	study the importance of asymmetric synthesis	CO1: Students will get knowledge of determination of Stereochemistry of organic compound using NMR. CO3: understand mechanisms in asymmetric reaction. PO1: Students will expertise in application of asymmetric synthesis
PSCH O245	Innovative experiments in organic chemistry	---	Get the knowledge in the synthesis using green catalyst	Get the knowledge in the synthesis using green catalyst	Get the knowledge in the synthesis using green catalyst	CO1: How to synthesize organic molecules. PO1: To make students aware of the new green techniques, for organic synthesis
CHO5 406	Project work	---	Get the knowledge in the multistep synthesis	Get the knowledge in the multistep synthesis	Get the knowledge in the multistep synthesis	CO6: To develop the research interest of students. PO1: To develop the research interest.





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ANALYTICAL CHEMISTRY

Progra mme	Cou rse Cod e	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
			Lo cal	National	Regiona l	Global	
M.Sc. II Analyti cal chemist ry (PG)	PSC HA- 231	Analytical Method Development & Validation, Nan otechnology	Student should know the validation parameter	Student should know the validatio n paramete r	Student should know the validation parameter	CO1: student should be able to apply the knowledge to solve the problem PO1: Apply the learned knowledget o develop Nanomateri al's and study basic tools of nanotechnol ogy
	PSC HA- 232	Electrochemical Method and Food Analysis	understand various term in food analysis techniques & methods.	understa nd various term in food analysis techniqu	understand various term in food analysis techniques & methods.	CO1: Studen ts should able to solve numerical problems on electrochem istry .





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					es & methods.		PO1:Select appropriate method of food analysis for its quality Solve numerical problems on analysis of food CO:Select& describe the parameters required for food quality.
PSC HA-233	Pharmaceutical Analysis	...	understand various terms in pharmaceutical raw material and finished product	understand various terms in pharmaceutical raw material and finished product	understand various terms in pharmaceutical raw material and finished product	understand various terms in pharmaceutical raw material and finished product	CO1:Students should be able to Perform and explain importance of limit tests, identification tests and microbiological limit test of raw materials and finished products





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							PO1:Solve numerical problems on analysis pharmaceutical raw material and finished product
PSC HA-234	Analytical Spectroscopy	Principle and applications of various spectroscopy.	Principle and applications of various spectroscopy.	Principle and applications of various spectroscopy.	CO1:Student should understand the spectroscopy concepts in detail Student should understand Basic concepts of electron spectroscopy. PO1:Student should know XRD method for chemical analysis.	





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	PSC HA- 235	Practical- Analysis of Materials	To analyze organic and inorganic materials using appropriat e chemical / instrument al methods	To analyze organic and inorgani c materials using appropri ate chemical / instrume ntal methods	To analyze organic and inorganic materials using appropriat e chemical / instrument al methods	CO1:Studen ts should understand the principles & applications of instruments in detail CO2:student sshould be able to analyze different minerals from soil water and fertilizer sample PO1:Studen tsshould be able to Apply/select particular method/instr umental parameters for analysis of given sample.
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	PSC HA- 236	Practical- Instrumental Analysis	Applicatio ns of instrument s in sample analysis	Applicati ons of instrume nts in sample analysis	Applicatio ns of instrument s in sample analysis	CO1:Student ts should understand the principles &applicatio ns of instruments in detail. CO2: Students should understand handling of UV Visible spectrophot ometer PO1: should be able to find out minerals by using Flame photometer from soil, water.
	PSC HA- 241	Forensic science		To understand various terms in forensic science	To understa nd various terms in forensic science	To understand various terms in forensic science	CO1:student should able to use and apply techniques and skills in forensic





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							investigations. CO2: to highlight the importance of forensic science.
	PSC HA-242	Advances in analytical techniques	..	Principal and applications of various extraction technique and various spectro. technique.	Principal and applications of various extraction technique and various spectro. technique.	Principal and applications of various extraction technique and various spectro. technique.	CO1: student should understand the basic spectroscopic concept in detail. PO1: student will be able to know the extraction technique.
	PSC HA-243	Analytical methods for analysis of fertilizers, detergents, water and polymer, paint, pigment.	Understand various methods of analysis of fertilizer, detergent, water, polymer, paint, payment.	Understand various methods of analysis of fertilizer, detergent, water, polymer, paint.	Understand various methods of analysis of fertilizer, detergent, water, polymer, paint.	CO1: select appropriate method of analysis. PO2: Select and describe various methods of analysis.





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	PSC HA-244	Methods of analysis and applications.	..	To understand the process to produce economic concentrations of minerals.	To understand the process to produce economic concentrations of minerals.	To understand the process to produce economic concentrations of minerals.	CO1: student should be able to use various analytical methods for analysis of given sample. PO2: student should be able to identify body fluids.
	PSC HA-245	Analysis of pharmaceutical food and bioanalytical sample.	..	Understand the analysis of pharmaceutical food and bioanalytical sample using appropriate chemical	Understand the analysis of pharmaceutical food and bioanalytical sample using	Understand the analysis of pharmaceutical food and bioanalytical sample using appropriate chemical	CO1: student should be able to apply /select particular method/instrument for analysis of given sample.





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				and instrument method.	appropriate chemical and instrument method.	and instrument method.	PO2: student should be able to understand the application in detail.
	PSC HA-246	Project work	..	Get the knowledge in project work.	Get the knowledge in project work.	Get the knowledge in project work.	CO1: To develop research interest of student. PO1: Student should be able to do the project work.

INORGANIC CHEMISTRY

Programme	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & Cos
			Local	National	Regional	Global	
M.Sc. II	PS CHI 231	Organometallic chemistry	OMC & its applications	OMC & its applications	OMC & its applications	OMC & its applications	CO1: Student will





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Chemistry (PG)	(OMC) & Homogeneous Catalysts						get knowledge about synthesis, properties and application of OMC. PO1: Student should be able to understand applications of homogeneous catalysis.
	PS CHI 232 Inorganic reaction mechanism and photochemistry	Inorganic reaction mechanism	Inorganic reaction mechanism	Inorganic reaction mechanism	Inorganic reaction mechanism	Inorganic reaction mechanism	CO1: Student will be able to understand inorganic reaction mechanism.





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							PO2:To develop knowledge about inorganic reaction mechanism and photochemistry.
PS CHI 233	Physical methods in inorganic chemistry	Use of various techniques (CV,XRD, ESR, SEM,TEM)	Use of various techniques (CV,XRD,ESR, SEM,TEM)	Use of various techniques (CV,XRD,ESR, SEM,TEM)	Use of various techniques (CV,XRD,ESR, SEM,TEM)	Use of various techniques (CV,XRD,ESR, SEM,TEM)	CO2: To understand principle, instrumentation and applications of various techniques for characterization of inorg





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							anic compounds . PO3: Student able to solve numerical based on various techniques.
PS CHI 234	Bioinorganic and Inorganic Medicinal chemistry	Inorganic metals in biology and its applications in medicine	Inorganic metals in biology and its applications in medicine	Inorganic metals in biology and its applications in medicine	Inorganic metals in biology and its applications in medicine	Inorganic metals in biology and its applications in medicine	CO1:To understand role of metals in biological system PO2:To understand role of various metals in medicinal chemistry





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	PS CHI 235	Analysis estimation and computer application	Inorganic Chemistry Experiments	Inorganic Chemistry Experiments	Inorganic Chemistry Experiments	Inorganic Chemistry Experiments	CO1:Student should be able to understand analysis of Ore and alloy PO1:Student should be able to analyze unknown samples by instrument.
	PS CHI 236	Inorganic Preparations and instrumental Analysis	Inorganic Chemistry Experiments	Inorganic Chemistry Experiments	Inorganic Chemistry Experiments	Inorganic Chemistry Experiments	CO1:student able to do spectral interpretation PO2:Student should be able to analyze unknown samples by instrument.
M.Sc. Chemistry (PG)	PS CHI 241	Heterogeneous Catalysis and inorganic	Applications of zeolite and inorganic polymer	Applications of zeolite and inorganic polymer	Applications of zeolite and inorganic	Applications of zeolite and inorganic	CO1:Students knows the approaches and various theories in





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		polymer s			c polymer	c polymer	heterogeneous catalysis. PO1: Student understand descriptive chemistry of inorganic polymer.
	PS CHI 242	Material Science I: Inorganic materials and solid-state chemistry	Solid state chemistry	Solid state chemistry	Solid state chemistry	Solid state chemistry	CO1: Student get knowledge about semiconductor, superconductor, ceramic material, magnetic materials, biomaterials PO2: Student should be able to understand crystal defect and solid state chemistry





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PS CHI 243	Material Science II: Nanomaterials	Nanoscience and nanotechnology	Nanoscience and nanotechnology	Nanoscience and nanotechnology	Nanoscience and nanotechnology	CO1: Student should be able to understand methods of synthesis and characterization of nanomaterials by using various techniques. CO2: To develop knowledge about medicinal, biological applications.
PS CHI 244	Inorganic applications in industry, environmental chemistry	Environmental pollution and wastewater treatment	Environmental pollution and wastewater treatment	Environmental pollution and wastewater treatment	Environmental pollution and wastewater treatment	CO1: To get knowledge about electrochemical applications PO1: To get knowledge about wastewater management techniques





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	PS CHI 245	Extended practicals in Inorganic chemistry	Inorganic chemistry experiments	Inorganic chemistry experiments	Inorganic chemistry experiments	Inorganic chemistry experiments	PO1: Student should be able to synthesize and characterize inorganic complexes by using various techniques.
	PS CHI 246	Project work	research work	research work	research work	research work	CO1: To develop the research interest of students. PO1: To develop knowledge about research methodology





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CHEMISTRY

Pro gra mm e	Cou rse Cod e	Cour se Tit le	Topic in the syllabus which has relevance to the developmental need				POs, PSOs& COs
			Local	National	Regional	Global	
BSc Che mist ry UG I SEM	CH E- 101 - MJ M	Physi cal and Inorg anic Chem istry	--	States of Matter	States of Matter	States of Matter	CO1. This course makes understanding of assumptions of Bohr model, atomicspectra,andrelated mathematicalcalculations . PO2. Student should able to understand the principles of quantum mechanicsanditsapplic ations.
	CH E- 102 - MJ M	Organ ic and Inorg anic Chem istry	--	Concept of hydrocar bon	Concept of different functiona l group	Concept of reactivity of organic compoun ds	CO2. Studentsareabletodr aw oforganicmolecules,ando rganiccompounds. PO2: Students should able to draw the structures of the Organic molecules
	CH E- 103 - MJ M	Chem istry Practi cal	Chemica l Safety and safe working methods	Chemica l Safety and safe working methods	Chemica l Safety and safe working methods	Chemica l Safety and safe working methods	CO2: Students should able to handled chemicals and performs experiment safely PO2. Developtheexperim entalskills





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CH E- 116 -OE	Chemistry of soil and water	Physical, chemical properties of soil and water	Physical, chemical properties of soil and water	Physical, chemical properties of soil and water	Physical, chemical properties of soil and water	Physical, chemical properties of soil and water	<p>CO1. Gain knowledge on concepts and principles of Soil chemistry</p> <p>PO6. To explain the importance of maintaining fresh, unpolluted drinking water supplies.</p>
CH E- 117 -OE	Open elective practical chemical analysis of soil and water	Physical, chemical properties of soil and water	Physical, chemical properties of soil and water	Physical, chemical properties of soil and water	Physical, chemical properties of soil and water	Physical, chemical properties of soil and water	<p>CO1. Understand importance of chemical safety and L absafety while perform in experiments in laboratory</p> <p>PO2. Learn units and its conversions and apply in experimental analysis.</p>
CH E- 121 - VS C	Introduction to agriculture chemistry	Concepts of agriculture chemistry	Concepts of agriculture chemistry	Concepts of agriculture chemistry	Concepts of agriculture chemistry	Concepts of agriculture chemistry	<p>CO1. Students should understand the detail Agriculture chemistry</p> <p>CO2. To learn the advanced chemistry.</p> <p>PO3. Students should gain knowledge on concept of soil science.</p> <p>PO4. Students should learn about soil physical, chemical, biological properties.</p>





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CH E- 126 - SE C	Organic Qualitative Analysis	Develop the experimental Skill	Develop the experimental Skill	Develop the experimental Skill	Develop the experimental Skill	CO2. Develop experimental skills. PO3. Analyze the organic compounds by taking all the necessary precautions
CH E- 135 - VE C	Project	research work	research work	research work	research work	CO1: To develop the research interest of students. PO1: To develop knowledge about research methodology
CH E- 137 - IKS	Indian Heritage of chemistry	Development of Science in India	Development of Science in India	Development of Science in India	Development of Science in India	CO2. Recognize the various scientific fields in which Indians have made their contributions PO3. Draw linkages between modern Indian science and its rich scientific heritage.
CC 1	Certificate Course	Knowledge, skills and Confidence	Knowledge, skills and Confidence	Knowledge, skills and Confidence	Knowledge, skills and Confidence	CO1: Develop research skill to gather, evaluate. PO1: Understanding of subject matter, develop practical skill
CH E- 151 - MJ M	Physical and Inorganic Chemistry II	--	States of Matter	States of Matter	States of Matter	CO2: Students introduce the basic concept of atomic structure PO2: To understand basic principle and application in physical and inorganic chemistry





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CH E-152 - MJM	Organic and Inorganic Chemistry II	--	Organic Molecules	Organic Molecules	Organic Molecules	CO3: Students should be able to draw the structures of the Organic molecules PO2: To understand basic principles and applications of stereochemistry by using models
CH E-153 - MJM	Chemistry Practical II	----	Understand the synthesis, purification process	Understand the synthesis, purification process	Understand the synthesis, purification process	CO1: How to synthesize organic molecules. PO1: To make students aware of the new green techniques, for organic synthesis
CH E-161 - MN	Basic Analytical Chemistry	Understand the various analytical terms	Understand the various analytical terms	Understand the various analytical terms	Understand the various analytical terms	CO1: Students should understand the principles & applications of instruments in detail CO2: students should be able to analyze different minerals from soil water and fertilizer sample PO1: Students should be able to Apply/select particular method/instrumental parameters for analysis of given sample.
CH E-166 -OE	Introduction to Dairy Chemistry	Principle to dairy chemistry, innovate in area in development	Principle to dairy chemistry, innovate in area in development	Principle to dairy chemistry, innovate in area in development	Principle to dairy chemistry, innovate in area in development	CO1: Investigate the chemical properties and functional role of dairy ingredients in food formulation PO1: Explore advanced topics in dairy chemistry





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CH E-167-OE	Chemical Analysis of milk and milk product	innovate in area in development	innovate in area in development	innovate in area in development	innovate in area in development	CO1: Learn methods for assessing and ensuring the quality. PO1: Understand the fundamental chemical principle and properties of dairy products like milk, cheese, yogurt, butter.
CH E-171-VSC	Computation in Chemistry	Develop skill in data analysis, visualization and interpretation	Develop skill in data analysis, visualization and interpretation	Develop skill in data analysis, visualization and interpretation	Develop skill in data analysis, visualization and interpretation	CO1: Explore applications of Computational chemistry in various research areas PO1: to develop expertise in applying computational methods to address complex chemical problems.
CH E-176-SEC	Inorganic Qualitative Analysis	Evaluate reliability and accuracy	Evaluate reliability and accuracy	Evaluate reliability and accuracy	Evaluate reliability and accuracy	CO1: Communicate qualitative analysis procedures, results PO1: To focus on Critical thinking, analytical and problem solving ability
CH E-185-VEC	Digital and Technical Solutions	Explore concepts, increasing efficiency	Explore concepts, increasing efficiency	Explore concepts, increasing efficiency	Explore concepts, increasing efficiency	CO1: Learn techniques for collecting, analyzing, visualizing data using digital tools PO1: Students will have acquired a diverse set of skills and competence in digital tools





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S.Y. B.Sc	US CH 230 1	Physi cal and Analy tical chemi stry	---	Basic concepts of chemical kinetics	Basic concepts of chemical kinetics	Basic concepts of chemical kinetics	CO1:Students should understand the principles & applications of instruments in detail PO1: Students should able to Apply the knowledge of chemical kinetics to represent the mechanism of chemical reaction
	US CH 230 2	Organ ic and Inorg anic Chem istry	----	Concept of VBT MOT, CFT	Concept of VBT, MOT, CFT	Concept of VBT MOT, CFT	PO1: Students should able to undersatand MOT
	US CH 230 3	Practi cal cours e III	Safe working methods ,handling laborator y chemical s	Safe working methods ,handling laborator y chemical s	Safe working methods ,handling laborator y chemical s	Safe working methods ,handling laborator y chemical s	CO1: To familiar the recent development in inorganic chemistry. CO2: Students able to understand safe working methods, standard requires in handling laboratory chemicals. PO1: Students should able to Apply the knowledge of chemical kinetics to represent the mechanism of chemical reaction
	US CH 240 1	Physi cal and Analy tical chemi stry	---	Basic concepts of chemical kinetics	Basic concepts of chemical kinetics	Basic concepts of chemical kinetics	CO1: Know the solvent properties use such type of green solvent instead of hazardous solvents for carry out the chemical reactions. CO2: Understanding the energy sources and its





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							relation apply for different purposes. PO3: Know the environmental pollutants, find remedies on it and minimizes the pollution.
	US CH 240 2	Organic and Inorganic chemistry	-----	Concept of VBT, MOT, CFT	Concept of VBT, MOT, CFT	Concept of VBT, MOT, CFT	CO1: Students should know the method of naming organic compounds PO2: To understand the aliphatic and aromatic hydrocarbons
	US CH 240 3	Practical course IV	research work	research work	research work	research work	CO1: To develop the skills required in volumetric analysis. CO2: Students able to understand for prepare the proper solutions required for analysis. PO1: Students should be able to understand practicals
T.Y. B.Sc.	CH EM 350 1	Physical chemistry	Electrochemistry, surface chemistry	Electrochemistry, surface chemistry, Nuclear chemistry	Electrochemistry, surface chemistry, Nuclear chemistry	Electrochemistry, surface chemistry, Nuclear chemistry	CO1: To learn basic concepts in physical chemistry and its applications. PO1. Understand in details about molar refraction, polarization of molecule, dipole moment and its experimental determination.





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CH EM 350 3	Organic chemi stry	-	Concept organic reaction mechanis m	Concept of stereoche mistry	Concept organic reaction mechanis m	CO1: To understand definitions, reaction and application of organic chemistry PO1: understanding the strength PO2: understanding principle and importance of green route.
CH EM 350 4	Analy tical chemi stry	-----	Principle and Applicati ons of Instrume ntation	Principle and Applicati ons of Instrume ntation	Principle and Applicati ons of Instrume ntation	CO1: To understand applications of instruments CO2: Know the different thermal methods applied in analysis. PO2: Understanding the spectroscopic method used in analysis.
CH EM 350 5	Indust rial chemi stry	----	Study manufact uring of small scale industrie s.	Study manufact uring of small scale industrie s.	Study manufact uring of small scale industrie s.	PO1: To understand basic requirements of small scale industries CO3: students are expected to learn importance of synthetic and natural fertilizers, importance of sugar industry.





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	CH EM 350 6	Envir onme ntal chemi stry	---	Importan ce and conserva tion of environ ment	Importan ce and conserva tion of environ ment	Importan ce and conserva tion of environ ment	CO1: Able to understand importance and conservation of environment PO2: understanding the shell model. PO1: understanding history, names, methods of polymers.
	CH EM 350 7	Physi cal chemi stry practi cal	Instrume nts for analysis	Instrume nts for analysis	Instrume nts for analysis	Instrume nts for analysis	PO2: Able to learn handling of various instruments for analysis CO4: students will obtain to interceptcommunicate scientific information
	CH EM 350 8	Inorg anic chemi stry practi cal	-	Preparati on of inorganic complex es	Preparati on of inorganic complex es using different ligands	Estimati on of inorganic compoun ds	PO2: Tounderstand complex preparation of inorganic compounds CO3: students will learn the skills neededfor performing inorganic preparations
T.Y. B.Sc	CH EM 350 9	Organ ic chemi stry practi cal	-	Separatio n of binary mixture	Preparati on of organic compoun ds	Estimati on of organic compoun ds	PO1: To understand separation and preparation of organic compounds CO1: To develop the skills required in organic chemistry.
	CH EM 360 1	Physi cal chemi stry	Molecula r spectrosc opy	Molecula r spectrosc opy, Quantum chemistr y	Molecula r spectrosc opy, Quantum chemistr y	Molecula r spectrosc opy, Quantum chemistr y	CO1: Able to learn spectral analysis of various compounds . CO1. Understand in details about electrochemistry, electromotive force ofcell, cell notations and representation of cell.





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							PO2. Learn different types of electrode system and classification of electrochemical cell and applications of emf measurements.
CH EM 360 2	Inorg anic chemi stry	-	Concept of bioinorg anic chemistr y	Concept of metals and semicon ductors	Concept of organom etallic compoun ds		CO1: To understand semiconductors and organometallic compounds PO2: Know the properties of metals, semiconductors and superconductors using different fields
CH EM 360 3	Organ ic chemi stry	-	Concept of organic reaction mechanis m	Concept of spectrosc opy techniqu es	Concept of organic reaction and spectrosc opic analysis		CO1: To understand reaction and application of spectroscopy chemistry PO3: Students should be able to know rearrangement with their mechanism.
CH EM 360 4	Analy tical chemi stry		Principle and Applicati ons of Instrume ntation	Principle and Applicati ons of Instrume ntation	Principle and Applicati ons of Instrume ntation		CO1: To understand applications of instruments PO2: Know the chromatographic process applied in different separation processes.
CH EM 360 5	Indust rial chemi stry	----	Study manufact uring of small scale industrie s.	Study manufact uring of small scale industrie s.	Study manufact uring of small scale industrie s.		CO1: To understand basic requirements of small scale industries PO3: Developing skills in laboratory techniques and experimental methods relevant to these fields.





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CH EM 360 6	Envir onme ntal chemi stry	-----	Importan ce and conserva tion of environ ment	Importan ce and conserva tion of environ ment	Importan ce and conserva tion of environ ment	CO1: Able to understand importance and conservation of environment PO2: Understanding the soil structure, composition, types and exchange capacity for applying in a waste management.
CH EM 360 7	Physi cal chemi stry practi cal	----	Instrume nts for analysis	Instrume nts for analysis	Instrume nts for analysis	CO1. Understand in details about general laboratory practices in terms of safely handling of chemicals and apparatus. PO2. Learn the preparation and utilization of various laboratory solutions by considering environmentally friendly behavior of chemical.
CH EM 360 8	Inorg anic chemi stry practi cal	--	Separatio n of inorganic mixture	Concept of gravimet ric analysis	Column chromato graphic techniqu es	CO1: To understand separation of inorganic mixture PO2: Understanding the way for separation of cations used in experimental work
CH EM 360 9	Organ ic chemi stry practi cal		Separatio n of binary mixture	Preparati on of organic compoun ds	Estimati on of organic compoun ds	CO1: To understand separation and preparation of organic compounds PO3: Perform organic synthesis and is able to follow the progress of the chemical reaction by suitable method (color





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COMPUTER SCIENCE

Program me	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
			Local	National	Regional	Global	
B.Sc. (Computer Science) (UG)	COS-101-MJM	Basic Programming using C	Nested structures	Nested structures		Nested structures	CO2- Develop problem-solving skills CO3-Gain proficiency in C programming syntax and semantics
	COS-102-MJM	DBMS	Domain Constraint	Domain Constraint	Domain Constraint	Domain Constraint	CO1: Understand the concepts of relational database management system. CO2: Understand transaction management concept in RDBMS.
	COS-151-MJM	Advanced Programming Using C	Strings	Strings		Strings	CO1: Apply appropriate Control structures to solve problems CO 2:





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							Implement strings in C code.
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			Local	National	Regional	Global	
B.Sc. (Computer Science) (UG)	UCSCO241	Object Oriented Concepts using Java	Data Types	Data Types		Data Types	CO1: Understand Object Oriented Concepts CO2: Read input from different ways.
	UCSCO242	Software Engineering Principles and Techniques	Inception	Inception	Inception	Inception	CO1: Identify the type of system and its solution from the real-life problems or case studies. CO 2: Implement the complete and thorough knowledge of software engineering principles and practices.





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	UCSCO24 3	Lab Course based on UCSCO24 1	Java Tools	Java Tools	Java Tools	Java Tools	CO1: Develop programs using control structures, pointers, strings, structures and files in 'C'. CO2:Desig n and develop solutions to real world problems using C.
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			Local	National	Regional	Global	
M.Sc. (Computer Science) (PG)	COS-501-MJM	Principles of Programming Language	Data Types	Data Types	Data Types	Data Types	CO2: Ability to express syntax and semantics in formal notation. CO3: Ability to apply suitable programming paradigm for the application
	COS-502-MJM	Cryptography and Cyber Forensics	Introduction to Cyber Forensics, Types of Computer Forensics Systems	Introduction to Cyber Forensics, Types of Computer Forensics Systems	Introduction to Cyber Forensics, Types of Computer Forensics Systems	Introduction to Cyber Forensics, Types of Computer Forensics Systems	CO3: Understand and analyse data encryption standard. CO4: Analyse and evaluate the cyber security needs of an





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							organizational.
	COS-503-MJM	Database Technologies	private key management	private key management		private key management	CO1: Develop programs using control structures, pointers, strings, structures and files in 'C'. CO2: Design and develop solutions to real world problems using C.





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Programme	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
			Local	National	Regional	Global	
M.Sc. (Computer Science) (PG)	PSCS233	Data Science and Analytics	data modeling	data modeling			CO1: Analyze the nature of data with the help of statistical methods and different visualization techniques
	PSCS231	Software Architecture & Design Pattern	Broker pattern	Broker pattern	Broker pattern	Broker pattern	CO1 Able to assist learner to utilize styles and views to state Architecture, define documentation, analyze the architectural structures and it's Influence on business and development process.
	PSCS232	Soft Computing	Crisp Relations	Crisp Relations	Crisp Relations		CO1: Describe human intelligence and AI Know intelligent system works.CO2: Know





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							intelligent system works.
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ELECTRONICS

Progr amme	Cour se Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
			Local	National	Regional	Global	
S. Y. B. Sc	USEL 231	Linear Integrate d Circuits and Applicati ons	Electronic s Industry Developm ent	Electronic s Industry Developm ent	Electronic s Industry Developm ent	-	PO1:Stude nts will be able to understand specificatio ns and selection criterion for linear ICs.
	USEL 232	Digital Circuit Design	Technolog y, innovation and skill developme nt	Technolog y, innovation and skill developme nt	Technolog y, innovation and skill developme nt	-	PO3:Stude nts will help to acquire knowledge about to learn how to use computer- aided design (CAD). CO6:Stude nts make aware about develop skills in designing digital circuits, starting from high- level





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							specifications and transforming them into circuit implementations.
	USEL 233	Electronic Practical's	Troubleshooting and Debugging		Troubleshooting and Debugging		CO4:Students will be able to understand easy way save water and prevent soil erosion and flood hazard.
	USEL 241	Fundamentals of Instrumentation system	working principles and technical specifications of an instruments	working principles and technical specifications of an instruments	working principles and technical specifications of an instruments	working principles and technical specifications of an instruments	PO4:Students will be able to understand the working principles of popular instruments . CO7:Students will be able to know important technical specifications of an instrument with





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							operating procedure of instruments .
	USEL 242	Communication Electronics	Information and Communication Technology (ICT) Sector	Information and Communication Technology (ICT) Sector	Information and Communication Technology (ICT) Sector	Information and Communication Technology (ICT) Sector	PO2:Students will develop a strong understanding of the principles and concepts underlying communication systems. CO5:Students will gain knowledge of different communication technologies used in modern systems.
	USEL 243	Practical Course	Quality Control and Assurance and Telecommunications Infrastructure	Quality Control and Assurance and Telecommunications Infrastructure	Quality Control and Assurance and Telecommunications Infrastructure	Quality Control and Assurance and Telecommunications Infrastructure	PO5: Practical exercises in electronic instrumentation allow students to understand and





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			Development	Development	Development	Development	implement quality control and assurance processes. CO2:Practical exercises in communication courses focus on the design, implementation, and troubleshooting of communication systems
S. Y. B.C.S	UCS EL23 1	8051 Architecture and Programming	Local Manufacturing and Technology Development	Industrial Automation	Local Manufacturing and Technology Development	Industrial Automation	CO4:Student will be capable of designing and implementing automation systems.
	UCS EL23 2	Instrumentation Systems	working principles and technical specifications of an instruments	working principles and technical specifications of an instruments	working principles and technical specifications of an instruments	working principles and technical specifications of an instruments	PO4:Students will be able to understand the working principles of popular instruments.





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							CO7: Students will be able to know important technical specifications of an instrument with operating procedure of instruments.
	UCS EL233	Electronic Practical's	Quality Control and Assurance and Telecommunications Infrastructure Development	Quality Control and Assurance and Telecommunications Infrastructure Development	Quality Control and Assurance and Telecommunications Infrastructure Development	Quality Control and Assurance and Telecommunications Infrastructure Development	PO5: Practical exercises in electronic instrumentation allow students to understand and implement quality control and assurance processes. CO2: Practical exercises in communication courses focus on the design, implement





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							ation, and troublesho oting of communica tion systems
	UCS EL24 1	Advance Embedde d System	Local Manufactu ring and Technolog y Developm ent	Industrial Automatio n	Local Manufactu ring and Technolog y Developm ent	Industrial Automatio n	PO1:Stude nt will capable of designing and implem enting automation systems with programm ing.
	UCS EL24 2	Advance Commun ication and IoT	Building high-speed and long- distance communic ations	Building high-speed and long- distance communic ations	Building high-speed and long- distance communic ations	Building high-speed and long- distance communic ations	CO4:Stude nts will develop a comprehen sive understand ing of the principles and concepts underlying communica tion.
	UCS EL24 3	Practical Course	Circuit designing	-	Circuit designing	-	PO4:To learn how to select the devices, sensors, actuators and ICs for





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							a particular application CO6:To develop the basic skills required to handle the various instruments
M. Sc. II	PSEL 231	Advanced Communication Electronics	Building high-speed and long-distance communications	Building high-speed and long-distance communications	Building high-speed and long-distance communications	Building high-speed and long-distance communications	CO4:Students will develop a comprehensive understanding of the principles and concepts underlying communication.
	PSEL 232	Advanced Embedded Systems	Local Manufacturing and Technology Development	Industrial Automation	Local Manufacturing and Technology Development	Industrial Automation	PO1:Student will be capable of designing and implementing automation systems with programming.
	PSEL 233	Digital Signal Processing	Speech and audio processing	Communication systems	Environmental monitoring	Image and video processing	PO1:Understand the fundamentals of digital





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							signal processing CO1:Design and implement digital filters for various applications, considering specifications and performance requirements.
	PSEL 234	Programmable Logic Controllers and Supervisory Control & Data Acquisition	Industrial automation	Power distribution and smart grids	Water and wastewater management	Smart cities	PO2:Student will able to draw ladder diagram CO3:Student will able to make program for various real time application.
	PSEL 241	Control System	to automate and regulate local home environments, including temperature control,	Industrial control	Water resource management	Environmental control and sustainability	PO4:Design and analyze control systems using modern control techniques





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			lighting systems, and security systems.				CO4: Solve practical control system problems in specific application domains, such as process control, robotics control.
	PSEL 242	Advanced Power Electronics	Electric vehicle charging infrastructure:	Power quality improvement:	High-voltage direct current (HVDC) transmission	Global energy interconnection	PO2: Understand the fundamentals of power electronics, including power semiconductor devices, converter topologies, and switching techniques. CO4: Analyze and evaluate the performance of power electronic systems





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	PSEL 243	Fundamentals of Artificial Intelligence	Automated manufacturing	Industrial automation and optimization	Agriculture and food production	Humanitarian and medical robotics	PO3: Understand the fundamentals of mechatronics and robotics, including sensors, actuators, control systems, and mechanical design principles.
	PSEL 244	Wireless Sensor Network	Environmental monitoring :	Smart cities:	Water resource management	Climate change monitoring	PO2: Understand the fundamental concepts and principles of wireless sensor networks, including network architectures, communication protocols, and sensor node design. CO4: Analyze the performance of





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							wireless sensor networks, considering metrics such as throughput, latency, energy consumption, and network lifetime.
F. Y. B. Sc	ELE-101-MJM	Basic Electronics and Network Theorems	Conceptual Understanding and Problem Solving Skills	-	-	-	PO2:Students will be able to get familiar with basic circuit elements and passive components in Electronics CO5:Students will be able to understand DC circuit theorems and their use in circuit analysis in Electronics
	ELE-102-MJM	Fundamentals of Digital	Logical Reasoning and	-	Logical Reasoning and	-	PO4:Students will be able to get familiar





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		Electronics	Critical Thinking		Critical Thinking		with concepts of digital electronics and number systems and their representation. CO1&2: Students will be able to get logic gates, boolean algebra and k-maps
	ELE-103-MJM	Electronics Practical-I	Electronics Practical-I	Lab safety rules	-	Thinking of circuit design	-
	ELE-116-OE	Basic Electronics-I	Basic Electronics-I	Logical Reasoning and Critical Thinking	-	Thinking of circuit design	-
	ELE-117-OE	Electronics Practical-I	Electronics Practical-I	Lab safety rules		Thinking of circuit design	-
	ELE-121-VSC	Applied Electronics	Applied Electronics	Logical Reasoning and Critical Thinking	-	-	-
	ELE-126-SEC	Introduction of Circuit	Logical Reasoning and	-	Thinking of circuit design	-	





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		Simulator-I	Critical Thinking				
	ELE-151-MJM	Semiconductor Devices & Circuits	Technological Advancement	Economic Development	Technological Advancement	International Collaboration and Competitiveness	PO3: Students will be able to study characteristic, features & applications of BJT, FET, UJT. CO2: Students will be able to understand basics and applications of operational amplifiers
	ELE-152-MJM	Digital Electronic Circuits	Technological Advancement	Economic Development	Technological Advancement	International Collaboration and Competitiveness	PO4: Students will be able to understand Digital Logic, Proficiency in IC Technology and Circuit Analysis and Design Skills
	ELE - 153-MJM	Electronics	Technological	-	Technological		





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		Practical-II	Advancement		Advancement		
	ELE - 171-VSC	Designing of Experimental Electronic Systems	Technological Advancement	-	Technological Advancement		
F. Y. B.C.S	COS-126-SEC(EL)	Electronics Practical	Lab safety rules	-	Thinking of circuit design	-	
	COS-161-MN(EL)	Basic Electronics	Conceptual Understanding and Problem Solving Skills	-	-	-	PO2: Students will be able to get familiar with basic circuit elements and passive components in Electronics CO5: Students will be able to understand DC circuit theorems and their use in circuit analysis in Electronics
M. Sc. I	ELE-501-MJM	Mathematical Methods in	Problem solving in network and design	Problem solving in network and design	Problem solving in network and design	Design various circuit using	PO2: Critical Thinking and





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		Electronics and Network Analysis				mathematical and network analysis	Problem Solving All of the COs contribute to the development of students' critical thinking and problem-solving skills.
	ELE-502-MJM	Integrated Circuit Analysis	Design analog circuit	Design and build circuit for various industry	Design and build circuit for various industry	Design and build circuit for various industry	PO3: Design and build various analog circuit. CO1: Troubleshoot faulty electronic circuits, identifying and rectifying common issues
	ELE-503-MJM	Electronics Science Practical Course -I	The practical course in Electronics Science has local relevance as it equips students	It contributes to the development of a skilled workforce in the field of	it contributes to the development and competitiveness of regional electronics	The practical course in Electronics Science has global relevance due to the widespread	PO3: Troubleshoot faulty electronic circuits, identifying and rectifying common





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			with hands-on skills and practical knowledge required for local industries and organizations involved in electronics manufacturing, repair, and maintenance	electronics	industries. It provides individuals with practical skills needed for designing, assembling, and troubleshooting electronic circuits and system.	d use of electronic devices and systems worldwide	issues, such as open circuits, short circuits, and component failures. CO4: Demonstrate teamwork and effective communication skills while working on practical electronics projects and experiments.
	ELE-504-MJM	Electronics Science Practical Course - II	The practical course in Electronics Science has local relevance as it equips students with hands-on	It contributes to the development of a skilled programming	it contributes to the development and competitiveness of regional software industries	Programming Skills	PO4: Design and develop firmware and software for real-time CO1: Student will be able to make





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			skills and practical knowledge for local industries				different program and simulation knowledge
	ELE-511-MJE(A)	Digital System Design using Verilog	Understanding verification techniques in digital system design using Verilog is beneficial at the local level as it equips individuals with the skills required for developing and validating complex digital systems.	It contributes to the development of a skilled workforce in the field of digital system design. This knowledge is important for the growth of the national electronics industry and plays a role in sectors such as telecommunications, automotive, aerospace, and consumer electronics	The development and competitiveness of regional electronics and semiconductor industries	The topic of verification techniques in digital system design using Verilog holds global relevance due to the widespread use of digital systems and integrated circuits across various industries worldwide	PO2: Optimize digital systems for performance, power consumption, and area, using appropriate synthesis and optimization tools. CO4: Implement and validate digital designs on FPGA platforms, using appropriate design methodologies and development tools. CO3: Analyze and evaluate





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							the performance of digital systems through simulation and timing analysis, considering constraints and design goals. CO5: Students are able to Write Verilog HDL code to implement combinational logic circuits, Vending machine.
ELE-511-MJE(B)	Advanced 'C' & JAVA Programming.	It equips individuals with the knowledge and skills required for industry	it contributes to the development of a skilled workforce in the field of programming	it contributes to the development	Systems holds global relevance due to the widespread adoption	PO4: Design and develop firmware and software CO2: Basic and advanced programming	





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	ELE-551-MJM:	Electromagnetics, Microwave and Antennas	Understanding design technique of antenna and microwave	It contribute in the field of communication technology and security	The development and competitiveness of regional Antenna and semiconductor industries	the widespread use of Antennas and microwave system	CO4:Basic concept of microwave CO3:Designing of antenna
	ELE-552-MJM:	Embedded System Design with PIC Microcontroller.	It equips individuals with the knowledge and skills required for local industries and organizations involved in the development of embedded systems.	it contributes to the development of a skilled workforce in the field of embedded systems design	it contributes to the development and competitiveness of regional industries in the embedded systems domain.	Embedded Systems holds global relevance due to the widespread adoption of embedded systems across industries worldwide	PO2:Design and develop firmware and software for real-time embedded systems, utilizing programming languages and tools appropriate for the target platform. CO2:Design and implement real-time embedded systems, utilizing advanced





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							microcontr ollers.
	ELE-561-MJE(A)	Instrume ntation and Measure ment Techniqu es.	Local industries require instrument ation and measurem ent techniques to optimize production processes, monitor energy consumpti on, detect and prevent equipment failures	National energy grids and power distributio n systems rely on instrument ation and measurem ent techniques to monitor energy consumpti on, optimize power generation,	Different sensor and instrument for industry purpose.	Instrument ation and measurem ent techniques are essential for global climate change research and monitoring .	PO1:Under standing of Measureme nt Principles CO4:Desig n and Implement ation of Measureme nt Systems CO2:Troub leshooting and Maintenan ce:
	ELE-561-MJE(B)	Foundati on of Semicon ductor Devices	Local electronics manufactu rers require a skilled workforce with a strong foundation in semicondu ctor devices to design, develop, and produce	A strong foundation in semicondu ctor devices is essential for the growth and competitiv eness of the national semicondu ctor industry.	hubs that focus on semicondu ctor device manufactu ring and research require a skilled workforce with expertise in semicondu ctor devices	The global semicondu ctor market is a significant driver of technologi cal progress.	PO5:Under standing Semicondu ctor Device Physics CO4:Analy sis of Device Characteris tics





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			electronic component s and devices used in various local industries.				
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Environmental Science

Program me (UG)	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
			Local	National	Regional	Global	
B.Sc. Environmental Science F.Y.B.Sc. (Sem-I) NEP Pattern	ENV - 101-MJ M	Fundamentals of Environmental Science-I	Environmental issues	Environmental issues	Environmental issues	Environmental issues	CO1: Students will be able to understand the issues of environment. PO1: Imparts conceptual knowledge of environment, their adaptations and interrelationship.
	ENV - 102-MJ M	Fundamentals of Environmental Biology-I	Ecological adaptations and bio-resources	Ecological adaptations and bio-resources	Ecological adaptations and bio-resources	Ecological adaptations and bio-resources	CO1: Aware about the environment and its significance PO1: To learn about interrelationship and discipline in





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							environmen t science.
	ENV - 103- MJ M	Environm ent Science Practical- I	-	-	-	-	CO1: Students will be able to understand the basics of lab safety rules. PO1: Understand the knowledge about Environme ntal problems and their solutions.
	ENV - 116- OE	Disaster and their managem ent	Mitigatio n and managem ent technique of disaster	Mitigatio n and managem ent technique of disaster	Mitigatio n and managem ent technique of disaster	Mitigatio n and managem ent technique of disaster	CO1. Plans that either modify the causes of disasters or mitigate their effects on people, property, and infrastructu re. PO1: Acquire in- depth knowledge concerning environmen





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							tal issues and devise effective solutions to address them.
	ENV - 117-OE	Environmental Management and Safety	Disaster Management	Disaster Management	Disaster Management	Disaster Management	CO1. Students understood the fundamentals of disaster and management. PO1: Acquire fundamental knowledge of disaster and management to foster self-directed and life-long learning.
	ENV - 121-VSC	Solid waste management	Pollution and effect	Pollution and effect	Pollution and effect	Pollution and effect	CO2. Identify the case specific issues related to pollution potentials of solid wastes.





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							CO2: Identify case-specific issues related to pollution potentials of solid wastes, showcasing critical thinking and problem-solving skills.
	ENV - 126-SEC	Introduction to lab instruments	Instrument handling and safety	Instrument handling and safety	Instrument handling and safety	Instrument handling and safety	CO7. Develop understanding about inferring and predicting. CO7: Develop an understanding of inferring and predicting, contributing to trans-disciplinary knowledge.
	ENV - 135-VEC	Environmental Education	Environmental Values	Environmental Values	Environmental Values	Environmental Values	CO3. Discover knowledge in





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							ecological perspective and value of environment. PO3: Discover knowledge in an ecological perspective and recognize the value of the environment, enhancing social competence in environmental awareness.
	ENV - 137-IKS	Environment, Cultural Values and Society	Natural Resources	Natural Resources	Natural Resources	Natural Resources	CO1. Know the values of natural resources. PO1: Acquire knowledge about the values of natural resources, emphasizing disciplinary expertise.





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F.Y.B.Sc. (Sem-II) NEP Pattern	ENV - 151- MJ M	Fundamentals of Environmental Science-II	GIS and remote sensing	GIS and remote sensing	GIS and remote sensing	GIS and remote sensing	CO1: Understand the basics of Environmental Sciences. PO1: Students will be able to understand applications of GIS and remote sensing.
	ENV - 152- MJ M	Fundamentals of Environmental Biology-II	Biodiversity and its conservation	Biodiversity and its conservation	Biodiversity and its conservation	Biodiversity and its conservation	CO1: Students will be able to understand to maintain life supporting systems and essential ecological processes. PO1: aware about conservation and sustainable use of Biodiversity.
	ENV -	Environment	Food adulterant	Food adulterant	Food adulterant	Food adulterant	CO1: Students





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	153-MJ M	Science Practical-II	and their human health effect	and their human health effect	and their human health effect	and their human health effect	will be able to understand sustainable use of healthy food.
	ENV - 161-MN	Sustainable Development	Sustainable Development	Sustainable Development	Sustainable Development	Sustainable Development	CO6. Students will have an understanding of their social responsibility as future professionals and citizens.
	ENV - 166-OE	Ecotourism and Sustainability	Ecotourism	Ecotourism	Ecotourism	Ecotourism	CO2. Factors affecting tourism CO2: Analyze the factors influencing tourism, demonstrating critical thinking and problem-solving skills.
	ENV - 167-OE	Practicing of Ecotourism	Management of tourism	Management of tourism	Management of tourism	Management of tourism	CO5. Apply relevant technology for





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							production and management of tourism experiences.
	ENV - 171-VSC	Water quality monitoring					CO2. Students understood techniques employed for analysis of Waste water in Environmental Laboratory. CO2: Students applied scientific temper to understand techniques for the analysis of wastewater.
	ENV - 176-SEC	Sustainable agricultural practices	Agricultural practices.	Agricultural practices.	Agricultural Practices.	Agricultural practices.	CO2. Students understood modern agriculture practices.
S.Y.B.Sc. (Sem-III)(2022 Pattern)	USE S 231	Natural resources	resources	resources	resources	resources	CO1: Students will be able to





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							understand future sustainability of natural resources. PO1: learn basic resources natural, forest, Grasslands
	USE S 232	Environmental Pollution -I	Control of Soil, and water pollution	Control of Soil, and water pollution	Control of Soil, and water pollution	Control of Soil, and water pollution	CO1: Students will help to acquire knowledge about treatments for maintaining soil and water quality. PO1: understand resources, vermiculture in day to day life, Sponge fishery
	USE S 233	Practical based on USES 231 and USES 232	Rain water harvesting	Rain water harvesting	Rain water harvesting	Rain water harvesting	CO1: Students will be able to understand easy way save water and prevent





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							soil erosion and flood hazard.
S.Y.B.Sc. (Sem-IV) (2022 Pattern)	USE S 241	Solid and Hazardous waste management	Plastic and e-waste	Plastic and e-waste	Plastic and e-waste	Plastic and e-waste	CO1: Students will help to acquire knowledge about how to reduce, reuse and recycle of waste. PO1: aware about solid waste processing, recovery and energy generation.
	USE S 242	Environmental Pollution-II	Control of Air and noise pollution	Control of Air and noise pollution	Control of Air and noise pollution	Control of Air and noise pollution	CO1: Students will learn how to access pollution sources, study exposure pathways and fate and evaluate consequences of human exposure to pollution and its impacts to





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							environmen- tal quality.
	USE S 243	Practical based on USES 241 and USES 242	Total chlorophy ll of plant	Total chlorophy ll of plant	Total chlorophy ll of plant	Total chlorophy ll of plant	CO1: Students will learn to identify impacts of pollutant on plants.
T.Y.B.Sc. (Sem-V)	EVS 3501	Ecosyste m managem ent	Terrestria l and aquatic ecosyste m managem ent	Terrestria l and aquatic ecosyste m managem ent	Terrestria l and aquatic ecosyste m managem ent	Terrestria l and aquatic ecosyste m managem ent	CO1: Students will be aware about Terrestrial and aquatic ecosystem managemen t. PO1: learn terrestrial ecosystem and its detailed classificatio n.
	EVS 3502	Wildlife Biology	Threats to Wildlife biodiversi ty	Threats to Wildlife biodiversi ty	Threats to Wildlife biodiversi ty	Threats to Wildlife biodiversi ty	CO1: To protect the remaining population of endangered species by banning hunting, giving legal protection to their habitat and finally,





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							restricting wildlife trade. PO1: understanding diversity of wildlife and their scope.
	EVS 3503	Geoscience	Disaster management	Disaster management	Disaster management	Disaster management	CO1: Develop and understanding about various types of disaster and to create awareness about disaster prevention and risk reduction. PO1: Aware about conservation natural resources.
	EVS 3504	Nature Conservation	Awareness about nature conservation	Awareness about nature conservation	Awareness about nature conservation	Awareness about nature conservation	CO1: Students aware about nature conservation methods and their international and





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							national efforts. PO1: understood objectives and challenges of nature conservation.
	EVS 3505	Environmental Governance, Laws and Ethics	Environmental ethics	Environmental ethics	Environmental ethics	Environmental ethics	CO1: Students aware about the fundamental duties and rights and also environmental ethics. PO1: understood the Acts and laws related to Environment protection.
	EVS 3506	Environmental Biotechnology	Vermi composting and Bio fuels	Vermi composting and Bio fuels	Vermi composting and Bio fuels	Vermi composting and Bio fuels	CO1: Students understanding biotechnology and used to control the environmental pollution.





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							PO1: understood composting , vermicomp osting and biofuel.
	EVS 3507	Practical based on EVS 3501 and EVS 3502	Vegetatio n by Belt/Line method	-	-	-	CO1: Students will be expert to conclude the significance of biological experiment s. PO1: aware the students about environmen tal laws and ethics.
	EVS 3508	Practical based on EVS 3503 and EVS 3504	Lapse rate, Simple win d rose, compoun d wind rose diagram and climograp h	-	-	-	CO1: To understand interpretati on of meteorologi cal parameters.





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	EVS 3509	Practical based on EVS 3505 and EVS 3506	Public interest litigation, CPCB	Public interest litigation, CPCB	-	-	CO1: Students aware about the fundamental duties, rights and authority of pollution control.
T.Y.B.Sc. (Sem-VI)	EVS 3601	Climate Change	Consequences and Challenges, Confronting Climate Change	Consequences and Challenges, Confronting Climate Change	Consequences and Challenges, Confronting Climate Change	Consequences and Challenges, Confronting Climate Change	CO1: Sensitize about Impacts of climate change and future goals and of sustainability. PO1: Understand Methodologies for impact assessments and current practices of the societies.
	EVS 3602	Analytical Methods	Chemistry of Biologically Important Molecules	Chemistry of Biologically Important Molecules	Chemistry of Biologically Important Molecules	Chemistry of Biologically Important Molecules	CO1: Students will understand the physiological function





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							that regulates the proper growth and development of living things. PO1: Understood the instrument handling technique.
	EVS 3603	Sustainable Development	Goals and Issues	Goals and Issues	Goals and Issues	Goals and Issues	CO1: Students will understand state of society in which living condition and resources are use to meet human needs without jeopardizing the integrity and stability of natural system, ensuring a safer future for future generation.





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							PO1: student aware about conservation natural resources
	EVS 3604	Environmental Statistics	Statistical models	Statistical models	Statistical models	Statistical models	CO1: It helps to students to environmental problems in terms of mathematical modeling to understand the impact of the chosen variables under study and show the direction of change in positive or negative manner. PO1: Understand basic concepts of probability.
	EVS 3605	Environmental Risk and Assessment	Risk Management				CO1: Students will aware about to identify risk





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		nt Managem ent					at an early stage and take the necessary steps to measures to mitigate its harmful effects.
	EVS 3606	Environm ental Economic s And Audit	Rural planning and developm ent	Rural planning and developm ent	Rural planning and developm ent	Rural planning and developm ent	CO1: Students will acquire knowledge about to achieve rural developme nt through the allocation and managemen t of resources, mediated by develop mentalist configurati on and local communitie s
	EVS 3607	Practical based on EVS 3601 to	Sustainab le farming practices, green Building	Sustainab le farming practices, green Building	Sustainab le farming practices, green Building	Sustainab le farming practices, green Building	CO1: Students will reduce their reliance on non





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		EVS 3603					renewable energy, reduce chemical use and save scarce resources. Students will aware to reduce pollution and waste reduction measures like reuse and recycling
	EVS 3608	Practical based on EVS 3604 to EVS 3606	Fire alarm systems	Fire alarm systems	Fire alarm systems	Fire alarm systems	CO1: Students will understand how safety system works and risk management
	EVS 3609	Project	Environmental issues, Audits, use of science and technology	-	-	-	CO1: Students will experience about innovative methodology to solve environmental problems





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MATHEMATICS

Program me	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & Cos
			Local	National	Regional	Global	
B.Sc. (Mathematics) UG	USMT 231	Calculus of Several Variables	Environmental science and resource management	National infrastructure and transportation planning	Economic policy and analysis	Global economic system and trade	CO1: Learning multivariable calculus will develop skills of students to solve complex problems in mathematics and science. PO1: Disciplinary Knowledge: Demonstrate comprehensive knowledge of the disciplines that form a part of a graduate programme





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							. Execute strong theoretical and practical understanding generated from the specific graduate programme in the area of work.
B.Sc. (Mathematics) UG	USMT 232	Laplace Transform and Fourier Series	Signal processing and communication system	Medical imaging and healthcare technology	Energy and power system	Climate modeling	CO1: Able to solve differential equations using Laplace Transform and to calculate Fourier Series of functions. PO1: Disciplinary Knowledge: Demonstrate comprehensive knowledge of the disciplines that form a





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							part of a graduate programme . Execute strong theoretical and practical understanding generated from the specific graduate programme in the area of work.
B.Sc. (Mathematics) UG	USMT 241	Vector Calculus	Electrical engineering and power distribution	National defense and aerospace engineering	Natural resource management	Satellite communication and space exploration	<p>CO1: Student will able to solve problems in integration which are critical in some science subjects.</p> <p>CO2: Student will enhance ability of problem solving and will improve</p>





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							analytical thinking. PO1: Disciplinary Knowledge: Demonstrate comprehensive knowledge of the disciplines that form a part of a graduate programme . Execute strong theoretical and practical understanding generated from the specific graduate programme in the area of work.
B.Sc. (Mathematics) UG	MAT 3504	Ordinary Differential Equations	Traffic Control, Water Resource Management	Environmental Policy and Climate Change	Local Industrial Processes , Natural Resource Management	Aerospace and Space Exploration, Global Energy	CO2: Identify the appropriate method to solve non-homogenous





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						Managem ent	differential equation. PO8: Environm ent and Sustainabi lity: Understand the impact of the scientific solutions in societal and environme ntal contexts and demonst rate the knowledge of and need for sustainable developme nt.
B.Sc. (Mathem atics) UG	MAT 3505	Operatio ns Researc h	Linear Program ming Model, Transport ation Model, Assignme nt Model	Linear Program ming Model, Transport ation Model, Assignm ent Model	Linear Program ming Model, Transport ation Model, Assignm ent Model	Linear Program ming Model, Transport ation Model, Assignme nt Model	CO1: Model the decision making problems by using LP techniques. PO2: Critical Thinking and Problem





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							<p>solving: Exhibit the skills of analysis, inference, interpretation and problem-solving by observing the situation closely and design the solutions.</p>
B.Sc. (Mathematics) UG	MAT 3604	Partial Differential Equations	Heat Transfer, Groundwater flow, Traffic flow in complex road system	Energy distribution and grid optimization, Natural Disaster Prediction and Response	Environmental Impacts	Oceanography and sea level rise, Tsunami and natural disaster simulation	<p>CO1: Student will be able to classify the partial differential equation. Identify methods and implement on solving Pfaffian differential equations. PO8: Environment and Sustainability: Understand the impact of the</p>





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							scientific solutions in societal and environmental contexts and demonstrate the knowledge of and need for sustainable development.
B.Sc. (Mathematics) UG	MAT 3605	Optimization Techniques	Network Analysis, Game Theory, Sequencing Problems, Replacement and Maintenance Model	Network Analysis, Game Theory, Sequencing Problems, Replacement and Maintenance Model	Network Analysis, Game Theory, Sequencing Problems, Replacement and Maintenance Model	Network Analysis, Game Theory, Sequencing Problems, Replacement and Maintenance Model	<p>CO1: Develop mathematical models associated with network flows and related real life applications.</p> <p>CO2: Should find Nash equilibrium in mixed strategies in games 2x2 and 2xN.</p> <p>CO3: Knows</p>





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							Lagrange multipliers method for solving problems on finding extremum. PO2: Critical Thinking and Problem solving: Exhibit the skills of analysis, inference, interpretation and problem-solving by observing the situation closely and design the solutions.
M.Sc. (Mathematics) PG	MAT-503-MJM	Practical in Ordinary Differential Equations	Traffic Control, Water Resource Management	Environmental Policy and Climate Change	Local Industrial Processes, Natural Resource Management	Aerospace and Space Exploration, Global Energy Management	CO1: Student will be able to find the complete solution of a nonhomogeneous differential equations





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							<p>as a linear combination of complementary function and a particular solution.</p> <p>CO2: Student will be able to understand the complete solution of a nonhomogeneous differential equation with constant coefficients by the method of undetermined coefficients.</p> <p>PO8: Environment and Sustainability: Understand the impact of the</p>
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							scientific solutions in societal and environmental contexts and demonstrate the knowledge of and need for sustainable development.
M.Sc. (Mathematics) PG	MAT-504-MJM	Programming in C	Skill development, local innovations	Workforce development, Educational advancement	Collaborative projects, capacity building	Global collaboration, contribution to global challenges	CO7: Student will be able to solve repetitive work using C programming PO2: Critical Thinking and Problem solving: Exhibit the skill of critical thinking and understand scientific





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							texts and place scientific statements and themes in contexts and also evaluate them in terms of generic conventions. Identify the problem by observing the situation closely, take actions and apply lateral thinking and analytical skills to design the solutions.
M.Sc. (Mathematics) PG	MAT-553-MJM	Practical in Partial Differential Equations	Heat Transfer, Groundwater flow, Traffic flow in complex road system	Energy distribution and grid optimization, Natural Disaster Prediction	Environmental Impact Assessments	Oceanography and sea level rise, Tsunami and natural disaster simulation	CO1: Solving of PDE and finding their applications. PO8: Environment and





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				n and Response			Sustainability: Understand the impact of the scientific solutions in societal and environmental contexts and demonstrate the knowledge of and need for sustainable development.
M.Sc. (Mathematics) PG	MAT-544-MJM	Programming in C++	Skill development, local innovations	Workforce development, educational advancement	Collaborative projects, capacity building	Global collaboration, contributions to global challenges	CO7: Student will be able to solve repetitive work using C++ programming PO2: Critical Thinking and Problem solving: Exhibit the skill of





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							critical thinking and understand scientific texts and place scientific statements and themes in contexts and also evaluate them in terms of generic conventions. Identify the problem by observing the situation closely, take actions and apply lateral thinking and analytical skills to design the solutions.
M.Sc. (Mathematics) PG	PSMT2 35(B)	Graph Theory	Social network analysis	National security and defense planning	Cybersecurity and network security	Global transportation and logistics network	CO1: Student will be able to apply





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							<p>principles and concepts of graph theory in practical situations.</p> <p>PO2: Critical Thinking and Problem solving: Exhibit the skill of critical thinking and understand scientific texts and place scientific statements and themes in contexts and also evaluate them in terms of generic conventions. Identify the problem by observing the situation closely,</p>
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							take actions and apply lateral thinking and analytical skills to design the solutions.
M.Sc. (Mathematics) PG	PSMT2 43	Fourier Analysis	Signal processing and communication system	National healthcare and medical technology	Manufacturing and industrial processes	Global environmental and climate studies	<p>CO1: Student will be able to understand the treatment of Fourier Series and their applications to boundary value problems in PDE of engineering and physics.</p> <p>PO5: Trans-disciplinary knowledge : Create new conceptual, theoretical and</p>





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							methodological understanding that integrates and transcends beyond discipline-specific approaches to address a common problem.
M.Sc. (Mathematics) PG	PSMT2 45(B)	Cryptography	Promoting scientific inquiry in education	Contribution to space exploration and technology	Regional observatories and science centers	Contribution to astrophysics and cosmology	<p>CO1: Student will be able to understand Kepler's law, interior and superior planets, satellite, sidereal time and elongation of planet.</p> <p>PO4: Research-related skills and Scientific temper: Infer scientific literature, build a</p>





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							sense of enquiry and able to formulate test, analyse, interpret and establish hypothesis and research questions; and to identify and consult relevant sources to academics and research ethics, scientific conduct and creating awareness about intellectual property rights and issues of plagiarism.
M.Sc. (Mathematics) PG	PSMT2 46	Project	Problem-solving and critical thinking	Advancing mathematical knowledge and	Promoting scientific inquiry and curiosity	Promoting international scientific	PO4: Research-related skills and Scientific temper:





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				innovation		collaboration	Infer scientific literature, build a sense of enquiry and able to formulate test, analyse, interpret and establish hypothesis and research questions; and to identify and consult relevant sources to academics and research ethics, scientific conduct and creating awareness about intellectual property rights and issues of plagiarism.
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For more details refer file no. 2.6.1 (Syllabus)





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MICROBIOLOGY

Program me	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
			Local	National	Regional	Global	
NEP Pattern F.Y. BSc.	Major Mandatory (MIB-101-MJM I)	Introduction to Microbiology (Theory)	Scope and Application of Microbiology 4 a. Industrial Microbiology and Biotechnology b. Medical Microbiology			Scope and Application of Microbiology 4 a. Industrial Microbiology and Biotechnology b. Medical Microbiology	CO:1 The students will acquire the basic knowledge of microbiology fields by the freshers in microbiology.
	Major Mandatory MIB-102-MJM	Basic Techniques in Microbiology (Theory)				Structure, working and ray diagram of Bright Field Microscopy • Concepts of Magnification, Numerical Aperture and Resolving Power	CO1. Students will be able to understand the principle and functioning of different types of microscopes and their components.





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	Major Mandat ory MIB- 103- MJM Labora tory Proced ures in Practic al	Laborator y Procedur es in Microbiol ogy	Introduction to microbiology laboratory instruments			Introduction to microbiology laboratory instruments	CO1. Students will be Introduce d to microbiol ogy laborator y and common microbiol ogy laborator y instrumen ts
	Open Electiv e (OE) MIB- 116- OE	Microorg anisms for Human Theory	Fermented Foods – Types, nutritional values and health benefits. Probiotics, prebiotics, synbiotics and nutraceuticals.				CO1. The students will acquire the basic knowledg e of microbiol ogy fields by the freshers in microbiol ogy





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	Open Elective (OE) MIB-117- OE	Food, Agricultural and Practical	Production of ethanol: a. using grape juice as raw material b. using jaggery medium as raw material				CO1. Students will be able to perform the production of alcoholic beverage in laboratory
	Vocational Skill Course MIB-121- VSC	Agricultural Microbiology Theory	Types of soil Microbial community in soil				CO1. Understand the importance of microbiology in agriculture and its role in sustainable farming practices.





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	Skill Enhancement (SEC) MIB-126-SEC	Microbiology Laboratory Practical	Handling of the following instruments with respect to SOP: a. Laminar air flow b. Incubator c. Water bath d. Colorimeter e. Micropipette f. pH meter g. Distillation h. Refrigerator				CO:1 To cater the needs of students for building up their careers in industry & research
	Indian Knowledge System (IKS) MIB-137-IKS	Ethno-Microbiology Theory	Definition of Ethno-microbiology • Definition of Fermentation				CO:1 The student should be able to apply the knowledge fermentation in food preparation.
	Major Mandatory MIB-151-MJM	Bacterial cytology Theory	Atoms, elements, ions and molecules b. Mole, Molarity, Normality, Isotopes, Avogadro's number				CO:1 The students will acquire the basic knowledge of biochemistry.





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	Major Mandat ory MIB-152-MJM	Fundamental Microbiology Theory	Cultivation of Microorganisms • Nutritional requirements • Nutritional classification of microorganisms				CO:1 Students will be able to understand the principle and uses of different types of media and their components.
	Major Mandat ory MIB-153-MJM	Techniques in Microbiology Practical	Preparation of media. i. Nutrient Agar & MacConkey's Agar ii. Nutrient Broth/ MacConkey's Broth				CO:1 Students will be Introduced to microbiology laboratory and common practices used in research and diagnostic microbiology





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	Minor MIB- 161- MN	Microbial diseases Theory Basic Medical Microbiol ogy	Definition of disease and types of causative agents • Sources of infection: human, animal, insects, soil, water and food				CO:1 Able to understand different microbial pathogens, including bacteria, viruses, fungi, and parasites, and their roles in causing diseases in humans
	Open Elective (OE) MIB- 166- OE	Food Microbiol ogy Theory	Definition and classification of foods 2. Food as a substrate for microorganism				CO:1 Understand the important developments in food microbiology and its scope





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	Open Elective (OE) MIB-167-OE	Biofertilizer Production Practical	Isolation of Nitrogen fixing bacteria. i. Rhizobium ii. Azotobacter iii. Azospirillum				CO:1 Students will be able to perform the production of Bio-fertilizer in laboratory.
	Vocational Skill Course (VSC) MIB-171-VSC	Agriculture Microbiology Practical	Physical analysis of agricultural soil – pH, moisture content, texture, colour				CO:1 1. To cater the needs of students for building up careers in agriculture microbiology
	Skill Enhancement Course (SEC) MIB-176-SEC	Clinical pathology Practical	Determine blood group Estimation of hemoglobin by Sahli's and cynmet method				CO:1 Students have understood to estimate hemoglobin from human blood





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S.Y.BSc.	USMB 231	(Theory) Bacterial Systematics and Physiology	Bacterial physiology Definitions of Metabolism, catabolism, anabolism, respiration and Fermentation			Bacterial physiology Definitions of Metabolism, catabolism, anabolism, respiration and Fermentation	CO:1 Students will be able to classify bacteria based on morphological, biochemical, and genetic characteristics.
S.Y.BSc.	USMB 232	Fundamentals of Soil & Industrial Microbiology	Soil microbiology Soil microorganisms, composition and types of soil. Rhizosphere micro flora and its role in the rhizosphere			Soil microbiology Soil microorganisms, composition and types of soil. Rhizosphere micro flora and its role in the rhizosphere	CO:1 Students will grasp the significance of microorganisms in nutrient cycling, soil fertility, and the maintenance of soil health.





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S.Y.BSc.	USMB 233	Practical course based onUSMB 231 and USMB23 2	Growth curve: Absorbance measurement for bacterial culture Growth curve plotting by using computer software				CO:2 Introducti on of use of computer softwares in study.
S.Y.BSc.	USMB 241	Bacterial Genetics	Understanding Molecules of heredity Discovery of transforming material (hereditary material): Griffith's Experiment. b. Evidence for nucleic acid as genetic material				CO:1 Compreh ensive idea about molecule s of heredity





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S.Y.BSc.	USMB 243	Practical course based on USMB24 2	Air sampling using an air sampler & calculation of air flora from different locations with the knowledge of respective standards of bacterial & fungal counts.			Air sampling using an air sampler & calculation of air flora from different locations with the knowledge of respective standards of bacterial & fungal counts.	CO:1 Students can explore the diversity of microorg anisms in the air and water





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T.Y.B Sc.	MICRO3 501	(Theory) Medical Microbiol ogy-I	Epidemiology: b. Disease distribution based on time, place and person				CO:1 Demonstr ate a comprehe nsive understan ding of common infectious diseases affecting the respirator y, gastrointe stinal, urogenita l, and central nervous systems, including knowledg e of causative pathogen s, symptom s, and host defense mechanis ms.
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T.Y.B Sc.	MICRO3 502	(Theory) Genetics and Molecular Biology-I				DNA damage and Repair mechanisms and Bacteriophage growth kinetics Chapter 5: DNA damage and Repair mechanisms	CO:1 Understand the genome organization in prokaryotic cell and eukaryotic cell
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T.Y.BSc.	MICRO3 503	(Theory) Enzymology				Enzyme assays and Principles and Methods of Enzyme purification. i. Spectrophotometric methods ii. Spectrofluorometric methods iii. Radioisotope assay.	CO:1 Gain comprehensive knowledge of enzyme catalysis principles, kinetics, and factors influencing enzyme activity to interpret and predict enzymatic reactions.
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T.Y.BSc.	MICRO3 504	(Theory) Immunology – I				Adaptive / Acquired Immunity (Third line of defense): 1. Humoral Immune Response a. Primary and secondary response	CO:1 Theoretical understanding of basic immunological processes CO:2 Understand immune mechanism of our body
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						kinetics, significance in vaccination programs b. Antigen processing and presentation (MHC class I and class II 3 6 restriction pathways), activation and differentiation of B-cells	
T.Y.BSc.	MICRO3505	Theory Fermentation Technology-I	Unit 3: Sterilization of Medium a. Methods of industrial sterilization b. Batch sterilization and Continuous sterilization			Unit 3: Sterilization of Medium a. Methods of industrial sterilization b. Batch sterilization and Continuous sterilization	CO:1 Theoretical understanding of principles and basic protocols of industrial processes. PO1: Disciplinary Knowledge: Demonstrate comprehensive knowledge of the disciplines that form a part of a graduate





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							programme. Execute strong theoretical and practical understanding generated from the specific graduate programme in the area of work.
T.Y.BSc.	MICRO3506	(Theory) Food And Dairy Microbiology	Preservation of milk by pasteurization and its storage: <ul style="list-style-type: none"> • Methods of Pasteurization – LTH, HTST, UHT • Storage specifications after pasteurization • Phosphate test and its significance 			Preservation of milk by pasteurization and its storage: <ul style="list-style-type: none"> • Methods of Pasteurization – LTH, HTST, UHT • Storage specifications after pasteurization • Phosphate test and its significance 	CO:1 Students will learn about various methods regarding milk and milk product as well as food sanitation and regulation. PO1: Disciplinary Knowledge: Demonstrate comprehensive knowledge of the disciplines that form a part of a graduate programme. Execute strong





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						theoretical and practical understanding generated from the specific graduate programme in the area of work.	
T.Y.BSc.	MICRO3507	(Practical Course I) Applied Microbiology - I	a. Tests for Milk and Dairy products i. Phosphate test ii. MBRT test iii. Test for mastitis iv. Milk fat estimation v. Standard Plate Count vi. Direct Microscopic Count/ Somatic cell count vii. Spray drying of milk (Demonstration)			a. Tests for Milk and Dairy products i. Phosphate test ii. MBRT test iii. Test for mastitis iv. Milk fat estimation v. Standard Plate Count vi. Direct Microscopic Count/ Somatic cell count vii. Spray drying of milk (Demonstration)	CO:1 Perform the tests used in dairy industries for quality checking. CO:1 Understand the importance of drying technique in preservation of cultures and dairy products.
T.Y.BSc.	MICRO3508	(Practical Course II) Biochemistry	Clinical Biochemistry - Estimations of: blood sugar,			Clinical Biochemistry - Estimations of: blood sugar, blood	CO:1 Students will be able to understand the principles and methods





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			blood urea, serum cholesterol, serum proteins and albumin.			urea, serum cholesterol, serum proteins and albumin.	of determining absorption spectra and molar extinction coefficients using colorimetry or spectrophotometry.
T.Y.BSc.	MICRO3509	(Practical Course III) Clinical Microbiology	Physical, Chemical and Microscopic examination of Clinical samples – urine, stool, pus			Physical, Chemical and Microscopic examination of Clinical samples – urine, stool, pus	CO:1 Practical understanding of basic Clinical Microbiology
T.Y.BSc.	MICRO3601	(Theory) Medical Microbiology-II	Unit 1. Introduction to Chemotherapy: a. Desirable parameters of good chemotherapeutic agent (Selective toxicity, Bioavailability of Drug, MIC,			Unit 1. Introduction to Chemotherapy: a. Desirable parameters of good chemotherapeutic agent (Selective toxicity, Bioavailability of Drug, MIC, LD-50	CO:1 Understand the desirable parameters of a good chemotherapeutic agent, including selective toxicity, bioavailability, and knowledge of pharmacokinetic parameters





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			MBC, LD-50 value) b. Routes of drug administration			value) b. Routes of drug administration	such as MIC, MBC, and LD-50
T.Y.BSc.	MICRO3602	(Theory) Genetics And Molecular Biology- II				Recombinant DNA Technology a. Types of restriction enzyme b. Nomenclature of restriction enzyme c. Cutting of DNA using restriction enzyme	CO:1 Understand the different mode of gene transfer in prokaryotic cell
T.Y.BSc.	MICRO3603	(Theory) Metabolism				Biosynthesis and Degradation : Unit1: Chemistry, concept of polymerization of Macromolecules: i. Polysaccharides. (Starch, Glycogen) ii. Lipids(Fatty acids, triglycerides and	CO:1 Acquire a comprehensive understanding of essential metabolic pathways involved in energy generation, encompassing glycolysis, the Krebs cycle, and oxidative phosphorylation.





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						phospholipids	
T.Y.BSc.	MICRO3604	(Theory) Immunology – II				Unit 1: Antigen-Antibody Interactions Principles of interactions: Antibody affinity and avidity, ratio of antigen antibody, lattice hypothesis and two stage theory, antigen-antibody reaction kinetics (dialysis equilibrium experiment)	CO:1 Theoretical understanding of basic immunological processes. CO:2 Each student would be able to understand immune mechanism of our body.
T.Y.BSc.	MICRO3605	(Theory) Fermentation Technology-II				ses of following secondary metabolites and their large scale production (with respect to microbial producers, production	CO1: Theoretical understanding of principles and basic protocols of large-scale industrial production processes.





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						process & recovery, and flowsheet): a. Ethanol b. Alcoholic beverages (Beer & Wine) c. Antibiotics (Penicillin & Streptomycin)	
T.Y.BSc.	MICRO366	(Theory) Agricultural And Environmental Microbiology	UNIT 1. Plant growth improvement with respect to: a. Disease resistance b. Environmental tolerance				CO:1 Students will comprehend the factors influencing plant growth and apply strategies for disease resistance and environmental tolerance
T.Y.BSc.	MICRO367	(Practical Course IV) Biochemistry and Molecular Biology	Enzyme Purification: b. i. Precipitation of amylase from fermentation broth				CO:1 Perform the technique used for the precipitation of proteins
T.Y.BSc.	MICRO368	(Practical Course V) Hematology and	Study of permanent slides of following			Study of permanent slides of following	CO:1 Practical understanding of basic





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		Diagnostic Immunology	microbial pathogens: a. Entamoeba histolytica b. Giardia spp. c. Plasmodium spp. d. Mycobacterium (tuberculosis and leprae)			microbial pathogens: a. Entamoeba histolytica b. Giardia spp. c. Plasmodium spp. d. Mycobacterium (tuberculosis and leprae)	hematology and Immunology PO1: Disciplinary Knowledge: Demonstrate comprehensive knowledge of the disciplines that form a part of a graduate programme. Execute strong theoretical and practical understanding generated from the specific graduate programme in the area of work.
M.Sc. I Sem-I (Major Mandatory)	MIB-501-MJM:	Instrumentation				UNIT:4 Industrial Biosafety and Environment Regulation • Laminar air flow: Aseptic area, Design,	CO1: Ability to explain the fundamental principles and concepts of instrumentation and their applications in different fields.





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						Types, operating principle • Biosafety cabinet: Types, working and principle • HVAC system: Heating Cooling Ventilation and Air conditioning	
	MIB-502-MJM:	Microbial Technology	UNIT 3: Microbial Processes (Upstream, Fermentation and Downstream Processing for the following: I. Antibiotics (Rifamycin) II. Microbial enzymes (Chitinase) III. Exopolysaccharides (Pullulan) Use of			UNIT 3: Microbial Processes (Upstream, Fermentation and Downstream Processing for the following: I. Antibiotics (Rifamycin) II. Microbial enzymes (Chitinase) III. Exopolysaccharides (Pullulan) Use of immobilize	CO1: A comprehensive understanding of varied bioreactor designs and the variables within the process





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			immobilized cells/enzymes to produce protease			d cells/enzymes to produce protease	
	MIB-503-MJM:	Practical course I	UNIT 1: Spectroscopy Characterization of biologically synthesized nanoparticles by UV-Visible spectroscopy.			UNIT 1: Spectroscopy Characterization of biologically synthesized nanoparticles by UV-Visible spectroscopy.	CO1: Demonstrate proficiency in the operation of various instruments, such as spectrophotometers, chromatographs,
	MIB-504-MJM:	Practical Course II	UNIT 2: Laboratory scale production •Media optimization using placket-burman design for exopolysaccharide production.			UNIT 2: Laboratory scale production • Media optimization using placket-burman design for exopolysaccharide production.	CO1.: Explain the principles and significance of microbial immobilization in biotechnology
Elective	MIB-511-MJE:A.	Biochemistry	UNIT 4: Carbohydrate, lipid & vitamin biochemistry a.			UNIT 4: Carbohydrate, lipid & vitamin biochemistry a.	CO1: Demonstrate a comprehensive understanding of the





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			Carbohydrate Chemistry: • Structure and function of Mono, di, oligosaccharides and polysaccharides with examples			Carbohydrate Chemistry: • Structure and function of Mono, di, oligosaccharides and polysaccharides with examples	structure, function, and properties of biomolecules, including proteins, carbohydrates, lipids, and nucleic acids.
	MIB-511-MJE:B.	Ecology				UNIT 4: Applied Ecology • Environmental pollution and global environmental change	CO2: Students will understand the principles of population dynamics and how populations interact within communities.
	MIB-511-MJE:C.	Medical Microbiology	UNIT 3: Clinical Microbiology Epidemiological and investigational approaches for emerging infectious diseases: Viral diseases: •			UNIT 3: Clinical Microbiology Epidemiological and investigational approaches for emerging infectious diseases: Viral diseases: •	CO3: Analyze and interpret clinical microbiology laboratory results, including microbial growth patterns, biochemical tests, and molecular





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			SARS (severe acute respiratory syndrome), • Avian and Swine influenza, • COVID-19			SARS (severe acute respiratory syndrome), • Avian and Swine influenza, • COVID-19	diagnostic methods.
Sem II (Major Mandat ory)	MIB-551- MJM:	Pharmaceuti cal Microbiolog y	UNIT 3: Developm ent of Anti- infectives Susceptibil ity Testing: Use of liquid and solid media(The rapeutic ratio,MIC and MBC)			UNIT 3: Developme nt of Anti- infectives Susceptibilit y Testing: Use of liquid and solid media(Ther apeutic ratio,MIC and MBC)	CO3:Proficie ncy in various drug screening methods, including high- throughput screening, virtual screening, and biochemical assays
	MIB-552- MJM:	Industrial Waste Water treatment	UNIT 1: Principles of Wastewate r Treatment Concept of wastewater and Terms used in wastewater treatment ,Need for Wastewate				CO1: Able to define the key terms and concepts related to industrial wastewater treatment.





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			r Treatment ,Laws and regulations of wastewater treatment:				
	MIB- 553- MJM:	Practical course III				UNIT 1: Sterility testing of following pharmaceuti cal preparations as per IP by direct inoculation /membrane filtration techniques Solid preparations : antibiotic tablets Liquid preparation	CO1. Understand the clinical significance of susceptibility results and how they influence patient treatment and management.
	MIB- 554- MJM:	Practical course IV	UNIT 1: Analysis of physical characterist ics of wastewater sample 1.Sampling of wastewater 2. Analysis of physical				CO1: Able to define the key terms and concepts related to industrial wastewater treatment.





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			characteristics of wastewater sample Solids				
Elective	MIB-561-MJE A.	Virology	Structure and Replication of viruses Enveloped and non-enveloped viruses			Structure and Replication of viruses Enveloped and non-enveloped viruses	CO1: Understand basic structures of viruses
	MIB-561- B.	Biophysical techniques	Principles of operation, Components of Mass Spectrometer Ionization and Ion fragmentation.			Principles of operation, Components of Mass Spectrometer Ionization and Ion fragmentation.	CO1: Students will be able to learn molecular structure determination .
	MIB-561- C.	Developmental Biology	Definition and scope Concepts in Developmental Biology: Growth, Potency, Commitment, Specification, Induction,			Definition and scope Concepts in Developmental Biology: Growth, Potency, Commitment, Specification, Induction,	CO1: Name, describe and order the main stages of development common to most multicellular organisms





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			Induction, Competence, Determination,			Competence, Determination,	
M.Sc. II (2022 Pattern) (Sem III)	PSMB23 1	Immunology	Regulation of immune responses by antigen, Antigen-antibody complexes, Network theory and its experimental evidence			Regulation of immune responses by antigen, Antigen-antibody complexes, Network theory and its experimental evidence	CO:1 Explain the mechanisms of immune response regulation to prevent autoimmunity and excessive immune reactions.
	PSMB23 2	Molecular Biology I				mRNA processing: splicing, capping, polyadenylation • Coordination of mRNA processing	CO:1 Students will showcase an extensive grasp of operons and the diverse regulatory mechanisms controlling gene expression in both prokaryotic and eukaryotic systems.
	PSMB23 3	Industrial waste water treatment	The need for wastewater treatment 2. Laws			The need for wastewater treatment 2. Laws and regulations	CO:1 Able to define the key terms and concepts





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			and regulations of wastewater treatment			of wastewater treatment	related to industrial wastewater treatment.
	PSMB23 4(A)	Biophysical Techniques				Ionization and Ion fragmentation- Electron impact ionization, Chemical Ionization, Electro spray Ionization Matrix assisted laser desorption (MALDI)	CO:1 Students will develop the capability to comprehend molecular structure determination .
	PSMB23 4(B)	Developmental Biology	Basics of gametogenesis: Oogenesis, spermatogenesis and spermiogenesis • Detailed structure of gametes			Basics of gametogenesis: Oogenesis, spermatogenesis and spermiogenesis • Detailed structure of gametes	CO:1 Name, describe and order the main stages of development common to most multicellular organisms.
	PSMB23 5	Practical course based on Immunology , Pharmaceutical	Agglutination techniques: Titer determination of isoantibodies			Agglutination techniques: Titer determination of isoantibodies	CO:1 Students be able to determine basic wastewater





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		Microbiology and Industrial waste water treatment	es to human blood group antigens			s to human blood group antigens	parameters, such as pH, turbidity, and suspended solids.
	PSMB236	Practical course based on molecular Biology and Microbial Technology.	Bioconversion Bioconversions using immobilized systems (cells) Parameter testing a. Effect of gel concentration b. Effect of cell concentration			Bioconversion Bioconversions using immobilized systems (cells) Parameter testing a. Effect of gel concentration b. Effect of cell concentration	CO:1 Develop the ability to critically analyze and describe the impact of diverse gel concentrations on the effectiveness and stability of bioconversions employing immobilized cells, providing insights into how different gel compositions affect the process's efficiency and stability.
	PSMB241	Pharmaceutical Microbiology	Drug Discovery: • Conventional Process Bio-prospecting,			Drug Discovery: • Conventional Process Bio-prospecting, Extraction and	CO:1 In addition to drug development students will also understand the concepts





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			Extraction and Purification and characterization of bioactive molecules from natural sources			Purification and characterization of bioactive molecules from natural sources	of drug discovery
	PSMB24 2	Molecular Biology II	Gene cloning strategies: preparation of gene, genome libraries, cDNA libraries, PCR cloning and alternatives , Library screening			Gene cloning strategies: preparation of gene, genome libraries, cDNA libraries, PCR cloning and alternatives, Library screening	CO:1 Students will gain extensive knowledge encompassing a variety of gene cloning techniques, comprising the preparation of gene and genome libraries, cDNA libraries, PCR cloning, and alternative methodologies.
	PSMB24 3	Microbial Technology	Designing of bioreactors - Design aspects CSTRs:			Designing of bioreactors - Design aspects CSTRs: The	CO:1 Students will learn about the different types of fermentation





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			The dimensional ratios of the outer shell, and the operational aspects such as working volume and impellers.			dimensional ratios of the outer shell, and the operational aspects such as working volume and impellers.	processes, equipment used and microbial process involved.
	PSMB24 4(A)	Medical Microbiology	Clinical Microbiology Epidemiological and investigational approaches for emerging infectious diseases: General properties, cultivation, interferon and interference of virus A. Viral diseases: a) SARS (severe acute respiratory syndrome). b) Avian			Clinical Microbiology Epidemiological and investigational approaches for emerging infectious diseases: General properties, cultivation, interferon and interference of virus A. Viral diseases: a) SARS (severe acute respiratory syndrome). b) Avian	CO:1 Identify microorganisms associated with human diseases, understand their epidemiology and modes of transmission.





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			and Swine influenza c) COVID-19			and Swine influenza c) COVID-19	
	PSMB24 4(B)	Mathematics for Biological Science	Real number system Sets and their representat ion Graphical representat ion of function Word problems			Real number system Sets and their representati on Graphical representati on of function Word problems	CO:1 Have developed basic knowledge of mathematics as applied to biological phenomenon.





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PHYSICS

Programme	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
			Local	National	Regional	Global	
BSc Physics (UG)	PHY-101-MJM	Mechanics and Properties of Matter	Elasticity, Viscosity, Surface Tension	Elasticity, Viscosity, Surface Tension	Elasticity, Viscosity, Surface Tension	Elasticity, Viscosity, Surface Tension	CO1: Students should be able to identify and classify element. and to understand/select and use the properties of the materials for applications accordingly. CO2: Students will proceed to manipulate/modify property





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							ies of the materials as per needs.
PHY-102-MJM	Electromagnetics	Electrostatics, Dielectrics, Magnetostatics	Electrostatics, Dielectrics, Magnetostatics	Electrostatics, Dielectrics, Magnetostatics	Electrostatics, Dielectrics, Magnetostatics	Electrostatics, Dielectrics, Magnetostatics	CO: Students can able to make use of ideas for new materials and their applications in various fields in modern technology by electromagnetism.
PHY-103-MJM	Practical-I	Elasticity, Viscosity, Surface Tension, Electrostatics, Dielectrics, Magnetostatics, Measurements	Elasticity, Viscosity, Surface Tension, Electrostatics, Dielectrics, Magnetostatics,	Elasticity, Viscosity, Surface Tension, Electrostatics, Dielectrics, Magnetostatics,	Elasticity, Viscosity, Surface Tension, Electrostatics, Dielectrics, Magnetostatics,	Elasticity, Viscosity, Surface Tension, Electrostatics, Dielectrics, Magnetostatics	CO: Students should be aware and skilled about measurements by using instruments and devices concer





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							ning various properties of matter.
PHY-151-MJM	Heat and Thermodynamics	Heat Transfer Mechanisms, Thermometry,	Applied Thermodynamics, Heat Transfer Mechanisms, Thermometry	Applied Thermodynamics, Heat Transfer Mechanisms, Thermometry	Applied Thermodynamics, Heat Transfer Mechanisms, Thermometry	Applied Thermodynamics, Heat Transfer Mechanisms, Thermometry	CO1: To make students aware of the branch of physics concerned to heat, and applications of thermodynamics. CO2: To develop knowledge and its application for thermal techniques.
PHY-152-MJM	Physics Principles and Applications	General structure of atom, spectrum of hydrogen atom, atomic excitation and LASER principles, bonding	General structure of atom, spectrum of hydrogen atom, atomic excitation and LASER principles, bonding	General structure of atom, spectrum of hydrogen atom, atomic excitation and LASER principles, bonding	General structure of atom, spectrum of hydrogen atom, atomic excitation and LASER principles, bonding	General structure of atom, spectrum of hydrogen atom, atomic excitation and LASER principles, bonding	CO1: Students will know the approaches and various theories about structure of atoms & subatomic particles . CO2: Students will be able to





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			mechanism	mechanism	mechanism	mechanism	understand role and properties of positive rays and nuclear reaction CO3: Students will be able to understand nuclear composition and elementary particles, charge symmetry
PHY-153-MJM:	Practical-II	Thermodynamics, Waves and Optics	Thermodynamics, Waves and Optics	Thermodynamics, Waves and Optics	Thermodynamics, Waves and Optics	Thermodynamics, Waves and Optics	CO1: Students will be able to perform various measurements based on Thermodynamics, Waves and Optics practicals. CO2: Students will be able to correlate different heat-light-sound properties of materials and their use.





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PHY-116-OE	Astronomy-I [आकाशाशी जडले नाते - भाग १]	Identification of planets and stars	How to measure correct positions of objects in the sky	How to measure correct positions of objects in the sky	How to measure correct positions of objects in the sky	How to measure correct positions of objects in the sky
PHY-117-OE	Astronomy-I [आकाशाशी जडले नाते - भाग १] Practical	Identification of planets and stars	How to measure correct positions of objects in the sky	How to measure correct positions of objects in the sky	How to measure correct positions of objects in the sky	How to measure correct positions of objects in the sky
PHY-121-VSC	Vocational Skill Course (VSC)	Physics Workshop Skills-I	experimental skill developments.	experimental skill developments.	experimental skill developments.	experimental skill developments.
PHY-126-SEC	Skill Enhancement Course (SEC)	Applications of Internet of Things-I	experimental skill developments.	experimental skill developments.	experimental skill developments.	experimental skill developments.
ENG-131-AEC	Ability Enhancement Course (AEC)	Functional English-I	experimental skill developments.	experimental skill developments.	experimental skill developments.	experimental skill developments.
PHY-135-VEC	Value Education Course (VEC)	Environmental Science	Environmental awareness	Environmental awareness	Environmental awareness	Environmental awareness
PHY-137-IKS	Indian Knowledge System (IKS)	Knowledge System of Bharata				
PHY-161-MN	Minor	Basic Physics	Basic Physics principles	Basic Physics principles	Basic Physics principles	Basic Physics principles





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PHY-166-OE	Open Elective (OE)	Astronomy-II [आकाशाशी जडले नाते - भाग २]	Identification of planets and stars	How to measure correct positions of objects in the sky	How to measure correct positions of objects in the sky	How to measure correct positions of objects in the sky
PHY-167-OE	Open Elective (OE)	Astronomy-II [आकाशाशी जडले नाते - भाग २] Practical	Identification of planets and stars	How to measure correct positions of objects in the sky	How to measure correct positions of objects in the sky	How to measure correct positions of objects in the sky
PHY-171-VSC	Vocational Skill Course (VSC)	Physics Workshop Skills-II	experimental skill developments.	experimental skill developments.	experimental skill developments.	experimental skill developments.
PHY-176-SEC	Skill Enhancement Course (SEC)	Applications of Internet of Things-II	Embedded systems sensors and actuators with microprocessor	Embedded systems sensors and actuators with microprocessor	Embedded systems sensors and actuators with microprocessor	CO1. To learn and understand the basics of Embedded systems. CO2. To be acquainted with interfacing of sensors and actuators with microprocessor.
ENG-181-AEC	Ability Enhancement Course (AEC)	Functional English-II				
PHY-185-VEC	Value Education Course (VEC)	Value Education & Physics	practice in the experimental skill	practice in the experimental skill	practice in the experimental skill	CO: To help develop habit of practice in the





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				developments	developments	developments	experimental skill developments and to develop experimental skills in due course of time
PHY2 301 (A)	Electronics-I	Operational Amplifiers, Digital Electronics	Operational Amplifiers, Digital Electronics	Operational Amplifiers, Digital Electronics	Operational Amplifiers, Digital Electronics	Operational Amplifiers, Digital Electronics	CO:Students will be able to understand working principles and various applications based on Operational Amplifiers, Digital Electronics.
PHY2 301(B)	Instrumentation	Transducers	Transducers	Transducers	Transducers	Transducers	CO:Students will be able to use different components and electronic instruments for various parameter measurement and detection.
PHY2 302	Thermal Physics	thermodynamic properties of a material, Low temperature Physics	thermodynamic properties of a material, Low temperature Physics	thermodynamic properties of a material, Low temperature Physics	thermodynamic properties of a material, Low temperature Physics	thermodynamic properties of a material, Low temperature Physics	CO:Students will be able to classify different materials based on thermodynamic properties





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							and categories them for needed applications
PHY2303	Practical-I	Operational Amplifiers, Digital Electronics, Transducers, Display Devices	Operational Amplifiers, Digital Electronics, Transducers, Display Devices	Operational Amplifiers, Digital Electronics, Transducers, Display Devices	Operational Amplifiers, Digital Electronics, Transducers, Display Devices		CO1:Students will able to perform various applications based on thermometry, Operational Amplifiers, Digital Electronics practicals. CO2:Students will enable to correlate different components testing and electronic instruments for various parameter measurement and detection practically.
PHY2401	Mathematical Methods in Physics -I	Complex algebra useful in physics courses, partial differentiation, vector	Complex algebra useful in physics courses, partial differentiation, vector	Complex algebra useful in physics courses, partial differentiation, vector	Complex algebra useful in physics courses, partial differentiation, vector	Complex algebra useful in physics courses, partial differentiation, vector	CO:Students will able to Understand the concept of partial differentiation , vector algebra, singular





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			algebra , singular points of differenti al equation, Functions Fourier series and analysis	algebra , singular points of differenti al equation, Functions Fourier series and analysis	algebra , singular points of differenti al equation, Functions Fourier series and analysis	algebra , singular points of differenti al equation, Functions Fourier series and analysis	points, Functions Fourier series
PHY2 402	Elements of Modern Physics	Scientific method of work and the evolution of physics from the classical to its modern, electric and magnetic phenome na in everyday life, electroma gnetic spectrum, radioactiv ity	Scientific method of work and the evolution of physics from the classical to its modern, electric and magnetic phenome na in everyday life, electroma gnetic spectrum, radioactiv ity	Scientific method of work and the evolution of physics from the classical to its modern, electric and magnetic phenome na in everyday life, electroma gnetic spectrum, radioactiv ity	Scientific method of work and the evolution of physics from the classical to its modern, electric and magnetic phenome na in everyday life, electroma gnetic spectrum, radioactiv ity	Scientific method of work and the evolution of physics from the classical to its modern, electric and magnetic phenome na in everyday life, electroma gnetic spectrum, radioactiv ity	CO:Students will able to understand electric and magnetic phenomena in everyday life, electromagnet ic spectrum, radioactivity
PHY2 403	Practical- II	OPAMP, CRO, Transduc ers	OPAMP, CRO, Transduc ers	OPAMP, CRO, Transduc ers	OPAMP, CRO, Transduc ers		CO1: Students will able to perform various applications based on





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							Operational Amplifiers, Digital Electronics, signal measuring/monitoring practicals. CO2: Students will enable to correlate different components testing and electronic instruments for various parameter measurement and detection practically.
	PHY3 503	Advanced Optics	Interference, Diffraction, Polarization, Optical Fiber	Interference, Diffraction, Polarization, Optical Fiber	Interference, Diffraction, Polarization, Optical Fiber	Interference, Diffraction, Polarization, Optical Fiber	CO1: Students will be able to understand Principle construction and working various optical instruments-based Interference, Diffraction, Polarization for respective applications and measurement





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							of various parameters. CO2:Student can be able to make optical instruments for personal/social use (for e.g. telescope etc).
	PHY3 504	Solid State Physics	Crystallography, Solid-State Physics and Semiconductor	Crystallography, Solid-State Physics and Semiconductor	Crystallography, Solid-State Physics and Semiconductor	Crystallography, Solid-State Physics and Semiconductor	CO1:Students will be able to classify and categories solid state matters on Theoretical and model-based aspects along with properties (metal, Semiconductor and insulator. CO2:Student will be able to study /identify/ crystalline and amorphous materials and analyze crystal structures using X-ray diffraction.





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PHY3 505	Atomic and Molecular Physics	Spectroscopy	X-ray, Raman spectroscopy	X-ray, Raman spectroscopy	X-ray, Raman spectroscopy	CO:Student will be able understand principle working of various spectroscopic techniques for material characterizations.
PHY3 506	Elements of Material Science	Materials Science, Ceramic and Ferrite Materials	Materials Science, Ceramic and Ferrite Materials	Materials Science, Ceramic and Ferrite Materials	Materials Science, Ceramic and Ferrite Materials	CO:Student will have theoretical knowledge about material classifications , synthesis methods, characterization techniques and applications of materials.
PHY3 507	Practical I	Practicals Interference, Diffraction, Polarization	Practicals Interference, Diffraction, Polarization	Practicals Interference, Diffraction, Polarization	Practicals Interference, Diffraction, Polarization	CO:Student will be able to perform measurements regarding properties of materials for various parameters via practicals.
PHY3 508	Practical II	Practicals Materials properties	Practicals Materials properties	Practicals Materials properties	Practicals Materials properties	CO:Student will be able to perform measurements





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			measurements	measurements	measurements	measurements	regarding properties of materials for various parameters via practicals.
PHY3509	Project I	Materials Science	Materials Science	Materials Science	Materials Science	Materials Science	CO:Student will be able to synthesize materials by various methods along with characterization, analyses for various social/industrial applications.
PHY3601	Classical Electrodynamics	Electrostatics, Magnetostatics, Electrodynamics	Electrostatics, Magnetostatics, Electrodynamics	Electrostatics, Magnetostatics, Electrodynamics	Electrostatics, Magnetostatics, Electrodynamics	Electrostatics, Magnetostatics, Electrodynamics	CO:Student will be able to recognize electric and magnetic properties associated with materials and their applications on the theoretical basis.
PHY3602	Quantum Mechanics	Quantum Mechanics	Quantum Mechanics	Quantum Mechanics	Quantum Mechanics	Quantum Mechanics	CO1:Students will learn Theoretical aspects at Quantum Level and will have





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							insight of the microscopic world. CO2:Students will understand the behavior of particles under Classical and Quantum conditions for concern problems
PHY3 603	Statistica l Physics	Statistical Distributi on of System of Particles	Statistical Distributi on of System of Particles	Statistical Distributi on of System of Particles	Interactio ns in the systems	Interactio ns in the systems	CO1:Students will able to understand various concepts of statistics and apply them in thermodynamics and behavior of particles under Classical and Quantum conditions. CO2:Students will have ideas about various particles distributions, conditions and know more about the insight of





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							the microscopic phenomena.
	PHY3 604	Nuclear Physics	Nuclear reactions, Nuclear Energy ,Particle Accelerat or and Detectors	Nuclear reactions, Nuclear Energy ,Particle Accelerat or and Detectors	Nuclear reactions, Nuclear Energy ,Particle Accelerat or and Detectors	Nuclear reactions, Nuclear Energy ,Particle Accelerat or and Detectors	CO1:Students will aware and update concerning Advantages and disadvantages of nuclear power generation and nuclear weapons etc CO2:Students will be concerning their comprehensiv e view with subject are nuclear medicine, magnetic resonance imaging and radiocarbon dating in geology and archaeology etc. CO3:student will be able to understand the fundamental principles and concepts





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							governing classical nuclear and particle physics and have a knowledge of their applications interactions of ionizing radiation with matter the key techniques for particle accelerators the physical processes involved in nuclear power generation.
PHY3 605 (A)	Electronics II	OPAMP, Timer, Counters, Flip-flops	OPAMP, Timer, Counters, Flip-flops	OPAMP, Timer, Counters, Flip-flops	OPAMP, Timer, Counters, Flip-flops	OPAMP, Timer, Counters, Flip-flops	CO1:Students will use OPamp circuits /IC 555 in different applications for project purpose. CO2:Students will build and test digital circuits using universal/basic logic gates and flip flops and analyze,





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							design and implement sequential logic circuits
PHY3605 (B)	Advanced Electronics	Sensors, Analog/Digital Signal Conditioning, Process Control	Sensors, Analog/Digital Signal Conditioning, Process Control	Sensors, Analog/Digital Signal Conditioning, Process Control	Sensors, Analog/Digital Signal Conditioning, Process Control	Sensors, Analog/Digital Signal Conditioning, Process Control	CO1: Students will apply different methods for the measurement of various physical quantities. CO2: Students will identify various process control systems
PHY3606	Physics of Nanomaterials	Synthesis, Characterization applications of nanomaterials	Synthesis, Characterization applications of nanomaterials	Synthesis, Characterization applications of nanomaterials	Synthesis, Characterization applications of nanomaterials	Synthesis, Characterization applications of nanomaterials	CO1: Students will be able to synthesis various nanomaterials and their application concerning impact of nanomaterials on environment for various applications. CO2: Students can apply their knowledge to develop new





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							nanomaterials and to develop new applications
PHY 3607	Practical III	Practicals	Practicals Materials properties measurements	Practicals Materials properties measurements	Practicals Materials properties measurements	Practicals Materials properties measurements	CO1:Students will able to synthesis, characterize nano material and test applications
PHY 3608	Practical IV	Practicals	Practicals Materials properties measurements	Practicals Materials properties measurements	Practicals Materials properties measurements	Practicals Materials properties measurements	CO1:Students will able to design electronic based circuits for measurements and testing's
PHY 3609	Project II	Projects Electronic circuits, Nano materials	Projects Electronic circuits, Nano materials	Projects Electronic circuits, Nano materials	Projects Electronic circuits, Nano materials	Projects Electronic circuits, Nano materials	CO1:Students will able to synthesis, characterize nano material and test applications for need CO2:Students will able to design electronic based circuits for measurements and testing's of various parameters using sensors for need.





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PHY-551-MJM	PHY-551-MJM	Mathematical Methods in Physics	Basic Mathematical Methods and Linear vector spaces	Basic Mathematical Methods and Linear vector spaces	Basic Mathematical Methods and Linear vector spaces	Basic Mathematical Methods and Linear vector spaces	CO:Students will learn some mathematical techniques required to understand the physical phenomena.
	PHY-551-MJM	Classical Mechanics	Constrained Motion, Central Force	Constrained Motion, Central Force	Constrained Motion, Central Force	Constrained Motion, Central Force	CO:Students should able to understand Kinematics and Dynamics of rigid body in detail and ideas regarding Euler's equations of motion.
	PHY-551-MJM	Physics Laboratory-I	Practicals	Practicals	Practicals	Practicals	CO1:Students will able to design electronic based circuits for measurements and testing's CO2:Student will acquire the complementary skills of collaborative learning for project work





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PHY-551-MJM	Physics Laboratory-I	Practicals	Practicals	Practicals	Practicals	CO1:Students will able to design electronic based circuits for measurements and testing's CO2:Student will acquire the complementary skills of collaborative learning for project work
PHY-551-MJM	Quantum Mechanics-I	Approximation Methods	Approximation Methods	Approximation Methods	Approximation Methods	CO:Students should Learn about Approximation Methods to solve problems
PHY-551-MJM	Electronics	Operational Amplifiers, Communication Electronics, Digital Logic circuits, Data Converters	Operational Amplifiers, Communication Electronics, Digital Logic circuits, Data Converters	Operational Amplifiers, Communication Electronics, Digital Logic circuits, Data Converters	Operational Amplifiers, Communication Electronics, Digital Logic circuits, Data Converters	CO1:Students will manipulate knowledge for voltage, current and resistances in electronic circuits with basic electronic components and analyses. CO2:Students will use OPamp





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							circuits /IC 555 in different applications for project purpose. CO3:Students will build and test digital circuits using universal/basic logic gates and flip flops and analyze, design and implement sequential logic circuits
PHY-551-MJM	Atoms, Molecules and Laser	Laser and its applications, Holography	Laser and its applications, Holography	Laser and its applications, Holography	Laser and its applications, Holography	Laser and its applications, Holography	CO:Student will be able to understand concepts regarding working principles of ESR, NMR, laser.
PHY-552-MJM	Quantum Mechanics	Approximation Methods	Approximation Methods	Approximation Methods	Approximation Methods	Approximation Methods	CO:Students should Learn about Approximation Methods to solve problems
PHY-553-MJM	Physics Laboratory-III	Practicals	Practicals	Practicals	Practicals	Practicals	CO1:Students will be able to design electronic based circuits





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							for measurements and testing's CO2:Student will acquire the complementary skills of collaborative learning for project work
	PHY-554-MJM	Physics Laboratory-IV	Practicals	Practicals	Practicals	Practicals	CO1:Students will be able to design electronic based circuits for measurements and testing's CO2:Student will acquire the complementary skills of collaborative learning for project work
	PSPH 116	Basic Physics Laboratory-I	Practicals	Practicals	Practicals	Practicals	CO:Student will have knowledge concerning abstract concept and theories gained by experiencing and visualizing them as





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							authentic phenomena.
PSPH 121	Physics of Semiconductor Devices	Properties of Semiconductors	Properties of Semiconductors	Properties of Semiconductors	Properties of Semiconductors	Properties of Semiconductors	CO:Student will able to apply the knowledge of semiconductors to illustrate the functioning of basic electronic devices
PSPH 122	Atoms, Molecules & Laser	Laser and its applications, Holography	Laser and its applications, Holography	Laser and its applications, Holography	Laser and its applications, Holography	Laser and its applications, Holography	CO:Student will able to understand concepts regarding working principles of ESR, NMR, laser.
PSPH 123	Quantum Mechanics-II	Relativistic Quantum Mechanics	Relativistic Quantum Mechanics	Relativistic Quantum Mechanics	Relativistic Quantum Mechanics	Relativistic Quantum Mechanics	CO:Students should understand the concept of central forces and scattering phenomena, partial wave analysis insight of the microscopic world
PSPH 124	Electrodynamics	Energy, Force, Momentum Relations	Energy, Force, Momentum Relations	Energy, Force, Momentum Relations	Energy, Force, Momentum Relations	Energy, Force, Momentum Relations	CO:Student will have knowledge to formulate and solve the





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			and Electromagnetic Wave Equations	and Electromagnetic Wave Equations	and Electromagnetic Wave Equations	and Electromagnetic Wave Equations	electromagnetic problems skills.
	PSPH 125	Electronics Laboratory-II	Practicals	Practicals	Practicals	Practicals	CO1:Students will be able to design electronic based circuits for measurements and testing's CO2:Student will acquire the complementary skills of collaborative learning for project work
	PSPH 126	Basic Physics Laboratory-II	Practicals	Practicals	Practicals	Practicals	CO:Student will have knowledge concerning abstract concept and theories gained by experiencing and visualizing them as authentic phenomena.
	PHY5 301	Statistical Physics	Statistical Description,	Applications of Statistical Mechanics	Applications of Statistical Mechanics	Applications of Statistical Mechanics	CO:Students will be able to Describe the consequences





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			Distributi on	s and Quantum Distributi on	s and Quantum Distributi on	s and Quantum Distributi on	in classical and quantum statistics and able to have analytic ability to solve the statistical mechanics problems
	PHY5 302	Solid State Physics	Magnetic materials, Carbon based materials,	Magnetic materials, Carbon based materials,	Magnetic materials, Carbon based materials,	Magnetic materials, Carbon based materials,	CO:Students will have theoretical and experimental approach to give fundamental insights into solid state physics and able to do quantitative calculations based on established theoretical models to describe the properties of materials for applications.
	PHY5 303	Physics of thin films-I	Depositi on Techniqu es, Properties	Depositi on Techniqu es, Properties	Depositi on Techniqu es, Properties	Depositi on Techniqu es, Properties	CO:Students will be motivated ,skilled in various





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			and applications of thin films	and applications of thin films	and applications of thin films	and applications of thin films	deposition techniques for various applications.
PHY5304	Electronic Instrumentation-I	Transducers, Signal Conditioners, Data acquisition and conversion, Indicators, Display system	Signal Conditioners, Data acquisition and conversion, Indicators, Display system	Signal Conditioners, Data acquisition and conversion, Indicators, Display system	Signal Conditioners, Data acquisition and conversion, Indicators, Display system	Signal Conditioners, Data acquisition and conversion, Indicators, Display system	CO1:Student will Understand the principles and functions of different instruments. CO2:Student will able to Design experiments using sensors with Use different instruments for measurement of various parameters
PHY5305	Special Lab-I	Practicals	Practicals	Practicals	Practicals	Practicals	CO1:Student will able to synthesis of nano materials and their application for projects in various fields. CO2:..Students will able to determine the characterization techniques for nano





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							materials and thin films
	PHY5 306	Project-I	Project	Project	Project	Project	CO1:Student will able to Design experiments using sensors with Use different instruments for measurement of various parameters for project/applications CO2:Student will able to synthesis of nano materials and their application for projects in various fields.
	PHY5 401	Nuclear & Particle Physics		General Properties and concepts of Nuclei , Radiation Detectors and Nuclear Models ,			CO:Student will Use basic laws in determination of particle properties and properties of processes in the subatomic world, particle





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				Elementary Particle Physics			interactions with matter.
PHY5 402	Material Science	Defects, Properties of Materials, Alloy systems, Phase diagrams and Phase transformations			Defects, Properties of Materials, Alloy systems, Phase diagrams and Phase transformations		CO:Student will be Qualitatively describe the bonding scheme and its general physical properties, as well as possible applications and understand alloy systems, families of engineering alloys
PHY5 403	Physics of thin films-II	Radiation Sources, Detectors and Sensors	Spectroscopic Analysis		Radiation Sources, Detectors and Sensors		Student should be able to: CO1:Identify the signals and systems CO2:Apply the principles





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							of discrete-time signal analysis to perform various signal operations CO3:Apply characterization techniques for microstructure examination at different magnification level and use them to understand the microstructure of various materials
PHY5404	Electronic Instrumentation-II	Process Control, Controllers			Process Control, Controllers		Student should be able to: CO1:Understand the use of block diagrams & the mathematical basis for the design of control systems CO2:Design and tune





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							process (PID) controllers;
							CO3: Underst and the importance and application of good instrumentati on for the efficient design of process control loops for process engineering plants.
	PHY5 405	Special Lab-II	Practicals	Practicals	Practicals	Practicals	CO1: Student will able to synthesis of nano materials and their application for projects in various fields. CO2: Students will able to determine the characterizati on techniques for nano materials and thin films
	PHY5 406	Project-II	Project	Project	Project	Project	CO1: Student will able to Design





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							experiments using sensors with Use different instruments for measurement of various parameters for project/applications CO2:Student will able to synthesis of nano materials and their application for projects in various fields.
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STATISTICS

Programme	Course Code	Course Title	Topic in the Syllabus Which has relevance to developmental needs				PO's, PSO's and CO's
			Local	National	Regional	Global	
B.Sc. Statistics, UG	STA-151-MJM	Descriptive Statistics – II	Demography, Life Table	Demography, Life Table	Demography, Life Table	Demography, Life Table	CO1: Applications of demography and life table in the field of insurance, Actuarial Science, government etc. PO1: Disciplinary Knowledge: Demonstrate comprehensive knowledge of the disciplines that form a part of a graduate programme. Execute strong theoretical and practical understanding generated from the specific graduate programme in the area of work.
B.Sc. Statistics, UG	USST 231	Statistical Techniques – I	Index Number, Time Series	Index Number, Time Series	Index Number, Time Series	Index Number, Time Series	CO1: Applications of index numbers and time series
B.Sc. Statistics, UG	USST 241	Statistical Techniques – II	Regression, SPC and Queuing Model	Regression, SPC and Queuing Model	Regression, SPC and Queuing Model	Regression, SPC and Queuing Model	CO1: Learn Meaning and purpose of SPC. CO2: Construct Control charts for Attributes, variables.





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							CO3:Revise control limits whenever necessary. CO4: Apply M/M/1:FIFO Queuing model.
B.Sc. Statistics, UG	USST 242	Sampling Distributions and Testing of Hypothesis	Testing of Hypothesis	Testing of Hypothesis	Testing of Hypothesis	Testing of Hypothesis	CO1:Use appropriate tests in real life situations
B.Sc. Statistics, UG	STAT 3502	Statistical Inference - I	Estimation and its properties	Estimation and its properties	Estimation and its properties	Estimation and its properties	CO1:Students will possess skills concerning various methods of estimation.
B.Sc. Statistics, UG	STAT 3503	Sampling Methods	Sampling Methods	Sampling Methods	Sampling Methods	Sampling Methods	CO1: Identify and recognize the appropriate sampling method in various situations.
B.Sc. Statistics, UG	STAT 3504	Design of Experiments	Various experimental designs	Various experimental designs	Various experimental designs	Various experimental designs	CO1:Students will be able to understand basic principles and various terms of Design of Experiments and analyze the data of various experimental design. PO1:





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							Critical Thinking and Problem solving: Exhibit the skills of analysis, inference, interpretation and problem-solving by observing the situation closely and design the solutions.
B.Sc. Statistics, UG	STAT 3506(B)	Bio statistics	Epidemiology, Clinical trials, Bioequivalence and bio-availability	Epidemiology, Clinical trials, Bioequivalence and bio-availability	Epidemiology, Clinical trials, Bioequivalence and bio-availability	Epidemiology, Clinical trials, Bioequivalence and bio-availability	CO1: Identify epidemic events in real life situations, designs used in clinical trials,
B.Sc. Statistics, UG	STAT 3601	Introduction to Regression Analysis	Various regression models	Various regression models	Various regression models	Various regression models	CO1: Able to apply various regression models in real life problems PO1: Research-related skills and Scientific temper : Develop the working knowledge and applications of instrumentation and laboratory techniques. Able to apply skills to design and conduct independent experiments, interpret, establish





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							hypothesis and inquisitiveness towards research.
B.Sc. Statistics, UG	STAT 3602	Statistical Inference - II	Parametric and Nonparametric test	Parametric and Nonparametric test	Parametric and Nonparametric test	Parametric and Nonparametric test	CO1:Use appropriate tests in real life situations
B.Sc. Statistics, UG	STAT 3603	Statistical Quality Control and Reliability	Statistical Quality Control and Reliability	Statistical Quality Control and Reliability	Statistical Quality Control and Reliability	Statistical Quality Control and Reliability	CO1:Students should be able to: construct appropriate control charts in online manufacturing process. Compute reliability and explain the structural properties of coherent system
B.Sc. Statistics, UG	STAT 3604	Operations Research	LPP, TP, AP, CPM, PERT, Game Theory	LPP, TP, AP, CPM, PERT, Game Theory	LPP, TP, AP, CPM, PERT, Game Theory	LPP, TP, AP, CPM, PERT, Game Theory	CO1:Students should be able to apply appropriate optimization techniques in real life situations. PO1: Environment and Sustainability: Understand the impact of the scientific solutions in societal and environmental contexts and demonstrate the knowledge of and need for sustainable development.





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B.Sc. Statistics, UG	STAT 3606(B)	Actuarial Statistics	Insurance Business, Feasibility of Insurance Business, Survival Distribution and Models for Life Tables	Insurance Business, Feasibility of Insurance Business, Survival Distribution and Models for Life Tables	Insurance Business, Feasibility of Insurance Business, Survival Distribution and Models for Life Tables	Insurance Business, Feasibility of Insurance Business, Survival Distribution and Models for Life Tables	CO1: Identify and analyze consequences of events involving risk and uncertainty
M.Sc. Statistics, PG	PSST 114	Sampling Theory	Various sampling Techniques, and population parameter estimation	Various sampling Techniques, and population parameter estimation	Various sampling Techniques, and population parameter estimation	Various sampling Techniques, and population parameter estimation	CO1: Identify and recognize the appropriate sampling Techniques in various situations. PO1: Disciplinary Knowledge: Demonstrate comprehensive knowledge of the discipline that forms a part of a postgraduate programme. Execute strong theoretical and practical understanding generated from the specific programme in





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							the area of work.
M.Sc. Statistics, PG	PSST 123	Multivariate Analysis	PCA, Cluster Analysis, Discriminant Analysis, Canonical Correlation	PCA, Cluster Analysis, Discriminant Analysis, Canonical Correlation, Factor Analysis	PCA, Cluster Analysis, Discriminant Analysis, Canonical Correlation	PCA, Cluster Analysis, Discriminant Analysis, Canonical Correlation	CO1: Apply suitable tools for exploratory data analysis, dimension reduction, and classification to formulate and solve real-life problems
M.Sc. Statistics, PG	PSST 124	Regression Analysis	Various regression models and model adequacy, multicollinearity	Various regression models and model adequacy, multicollinearity	Various regression models and model adequacy, Multicollinearity	Various regression models and model adequacy, Multicollinearity	CO1: Able to apply various regression models in real life problems. PO1: Trans-disciplinary knowledge: Create new conceptual, theoretical and methodological understanding that integrates and transcends beyond discipline-specific approaches to address a common problem.





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M.Sc. Statistics, PG	PSST 232	Design and Analysis of Experiments	Various experimental design, RSM, CCD, Box-Behnken design	Various experimental design, RSM, CCD, Box-Behnken design	Various experimental design, RSM, CCD, Box-Behnken design	Various experimental design, RSM, CCD, Box-Behnken design	CO1: Students will be able to apply Factorial design, fractional factorial design, confounding in real life problems PO1: Critical Thinking and Problem solving: Exhibit the skill of critical thinking and understand scientific texts and place scientific statements and themes in contexts and also evaluate them in terms of generic conventions. Identify the problem by observing the situation closely, take actions and apply lateral thinking and analytical skills to design the solutions.
M.Sc. Statistics, PG	PSST 233	Time Series Analysis	ARMA, ARIMA, SARIMA, ARCH and GARCH	ARMA, ARIMA, SARIMA, ARCH and GARCH	ARMA, ARIMA, SARIMA, ARCH and GARCH	ARMA, ARIMA, SARIMA, ARCH and GARCH	CO1: Students will be able to fit and analyze the appropriate time series model for time series data
M.Sc. Statistics, PG	PSST 234(A)	Data Mining	SVM, KNN, Decision Tree,	SVM, KNN, Decision Tree, Random	SVM, KNN, Decision Tree, Random	SVM, KNN, Decision Tree, Random	CO1: Students will be able to evaluate different models used for data processing





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			Random Forest, Text Mining	Forest, Text Mining	Forest, Text Mining	Forest, Text Mining	PO1: Critical Thinking and Problem solving: Exhibit the skill of critical thinking and understand scientific texts and place scientific statements and themes in contexts and also evaluate them in terms of generic conventions. Identify the problem by observing the situation closely, take actions and apply lateral thinking and analytical skills to design the solutions.
M.Sc. Statistics, PG	PSST 234(B)	Design and Analysis of Clinical Trials	Clinical Trials, Meta analysis	Clinical Trials, Meta analysis	Clinical Trials, Meta analysis	Clinical Trials, Meta analysis	CO1: Demonstrate an understanding of the essential principles of modern bio-statistical methods and statistical software and how to apply them
M.Sc. Statistics, PG	PSST 234(C)	Reliability Theory	Coherent structures and its Reliability	Coherent structures and its Reliability	Coherent structures and its Reliability	Coherent structures and its Reliability	CO1: The students will be able to get idea of important lifetime distributions such as for exponential, Weibull, gamma and lognormal distributions
M.Sc. Statistics, PG	PSST 242	Statistical Proc	Various Control Charts	Various Control Charts	Various Control Charts	Various Control Charts	CO1: Students should be able to demonstrate the ability to design, use, and interpret multivariate





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		ess Control	ol Charts				control chart, synthetic control chart, non-parametric control chart
M.Sc. Statistics, PG	PSST 243	Survival Analysis	Types of Censoring, Life time distributions, Test for Exponentiality	Types of Censoring, Life time distributions, Test for Exponentiality	Types of Censoring, Life time distributions, Test for Exponentiality	Types of Censoring, Life time distributions, Test for Exponentiality	CO1: Student should be able to compare survival functions of two or more populations
M.Sc. Statistics, PG	PSST 246	Project	Use of Statistical Tools in real life situations	Use of statistical Tools in real life situations	Use of statistical Tools in real life situations	Use of statistical Tools in real life situations	CO1: Students will be able to the social issues using the project PO1: Research-related skills and Scientific temper : Infer scientific literature, build a sense of enquiry and able to formulate, test, analyse, interpret and establish hypothesis and research questions; and to identify and consult relevant sources to find answers. Plan and write a research paper/project while emphasizing on





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						academics and research ethics, scientific conduct and creating awareness about intellectual property rights and issues of plagiarism.
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ZOOLOGY

Programe	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
			Local	National	Regional	Global	
B.Sc. Zoology	ZOO: 101 MJM	Animal systematics & diversity-I	-	Principles of animal classification	-	Principles of animal classification	PO1. Disciplinary knowledge PSO7.Scientific knowledge CO1.Acquires the skills to classify various invertebrate taxa.
	ZOO: 103 MJM	Zoology Practical I	-	Principles of animal classification	-	Principles of animal classification	PO1. Disciplinary knowledge PSO7.Scientific knowledge CO1.Acquires the skills to classify various invertebrate taxa.





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	USZL 231	Animal systematics & diversity- III	-	General characters and classification upto class of, Arthropoda, Mollusca and Echinodermata	-	General characters and classification upto class of, Arthropoda, Mollusca and Echinodermata	PO1. Disciplinary knowledge PSO7. Scientific knowledge CO1. Acquires the skills to classify various vertebrate taxa.
	USZL 232	Applied Zoology- I	Fisheries and Dairy Science	Fisheries and Dairy Science	Fisheries and Dairy Science	Fisheries and Dairy Science	PO5. Transdisciplinary knowledge. PSO10. Communication skills. CO1. Entrepreneurship.
	USZL 241	Animal systematics & diversity- IV	-	-	-	General characters and classification of class Reptilia, Aves and Mammalia	PO1. Disciplinary knowledge PSO7. Scientific knowledge CO1. Acquires the skills to classify various vertebrate taxa.





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	USZL 242	Applied Zoology-II	Apiculture and sericulture	Apiculture and sericulture	Apiculture and sericulture	Apiculture and sericulture	PO6. personal & professional competence PSO10. Communication skills. CO4. Entrepreneurship.
	ZOO 3504	Environmental Biology & Toxicology	Environmental Pollution Wildlife Management	Environmental Pollution Wildlife Management	Environmental Pollution Wildlife Management	Environmental Pollution Wildlife Management	PO8. Environment and Sustainability. PSO6. Biodiversity Understanding. PSO7. Conservation Awareness CO5. acquire the knowledge of environmental monitoring, role of various bioindicators





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M.Sc. Zoology	PSZO 234	Economic Zoology	Prawn culture, Pearl Culture, Fish Culture	Vermiculture industry	Fish Industry	Wild Life conservation	PO6 Personal and professional competence. PO8 Environment and Sustainability. PSO10. Communication skills. PSO7. Conservation Awareness CO3. Entrepreneurship. CO5. Contributes the knowledge for conservation and sustainable use of Biodiversity
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DAIRY TECHNOLOGY

Programe	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
			Local	National	Regional	Global	
B. Voc. Dairy Technology (UBDT)	DRT-101-MJM	Dairy Farm Management		Milking techniques, feed management, dairy farm management			PO1: They will know the need and importance of dairy farming and dairy farm management CO1: They will know about milking techniques of dairy cattle's. PO1: They will be able to understand dairy farming.
	DRT-102-MJM	Dairy Chemistry				Protein, carbohydrates, vitamins, minerals, lipids	CO1: They will understand the chemistry of milk and its





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						products, CO ₂ : They will understand the composition, role of each component and their interactions. PO1: They will understand the chemistry involved in dairy industry.
DRT-103-MJM	Chemical Analysis of Milk				Study of basic analysis methods used in dairy industry	CO1: They will learn basic analysis methods used in dairy industry. PO1: They will be able to understand and perform the analysis and testing of milk samples in





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							dairy industries.
DRT-116-OE	Diet Management		Introduction to balanced diet, RDA, BMI, weight management, malnutrition, classification of nutrients, etc				CO1- they will learn about balanced diet, BMI and weight management. CO2 – they will understand about classification of nutrients
DRT-117-OE	Diet Planning		Diet planning of adult male/ female, assessment of weight and height of self and calculation of BMI				CO1- they will learn about diet planning for adult male / female. CO2 – they will learn to calculate the BMI.
DRT-121-VSC	Waste Management and Effluent Treatment		Study of processing of water, waste management in dairy industry, solid waste management.				CO1- they will understand the concept of waste management in dairy industries. CO2 – they will learn about solid





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						waste management.
DRT-126-SEC	Soft Skill Development		Introducing yourself, Greetings, personality development, writing and comprehension skills, etc			CO1 – they will be able to introduce their self in good way
DRT-131-AEC	Functional English-I		Fluency in English, development in English grammar, tenses, verbs, vocabulary, etc			CO1- they will develop their vocabulary.
DRT-135-VEC	Environmental Science			Introduction to environmental studies, ecosystems, environmental pollution, etc		CO1- they will learn about environmental pollution, environmental ecosystem, etc
DRT-137-IKS	Ancient Indian Dairy Technology		Introduction to ancient Indian dairy technology, dairy animal management, uses of milk and milk			CO1 – they will know about the uses of milk in ayurveda. PO1- they will learn about





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				products in ayurveda, etc			ancient Indian dairy technology
	----	To be Selected From the Basket					-
	DRT -151- MJM	Market Milk		Dairy development, dairy cooperatives and incentives			CO1: They will learn about dairy cooperative s and dairy developme nt in India PO1: They will be able to understand dairy cooperative s and dairy developme nt in India
	DRT -152- MJM	Dairy Microbiology				Microbial growth and microbial spoilage	CO1: They will study the role of microbes in fermentatio n, spoilage and food borne diseases. PO1: They will Know the important genera of





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						microorganisms associated with dairy
DRT-153-MJM	Microbial Analysis of Milk				Different methods of microbial analysis	CO1: They will study about the preparation of media, culture, identify micro organisms CO2: They will learn different methods of microbial analysis. PO1: They will know basic microbiology laboratory practices and equipment
DRT-161-MN	Food Preservation Technology				Food preservation methods	CO1: They will study methods of preservation of foods and study the natural and chemical





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						preservatives PO1: They will learn about study of food preservation
DRT-166-OE	Food Adulterants		Study about adulteration in milk			CO1- they will understand about adulteration in milk.
DRT-167-OE	Detection of food Adulteration		Study of tests for identifying adulterants in milk			CO1- they will learn about test for identifying adulteration in milk.
DRT-171-VSC	Food Safety, Hygiene and Sanitation				Basic concept of food safety and hygiene, GMP, GHP, HACCP, ISO, TQM	CO1: They will know about Food safety, hygiene and sanitation, CO2: They will learn Industrial waste utilization CO3: They will learn hygiene practices like GMP, GHP,





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							HACCP, etc PO1: They will understand Food safety, hygiene and sanitation
DRT -176-SEC	Computer Skills		Introduction to computer and operating systems, MS-Word, MS-Excel, MS-PowerPoint, etc				CO1- they will understand about operation of computer system.
DRT -181-AEC	Functional English-II						-
DRT -185-VEC	Digital and Technological Solutions						-
---	To be Selected From the Basket						-
UBD T - 231	Dairy Processing Equipment		Study of dairy processing equipment				CO1:They will know about maintenance of Equipments and understand





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							the design equipments PO1: They will learn about Design, working and maintenance of Equipments .
	UBD T - 232	Fermented Milk Products		Concept of fermentation, study of different fermented milk products			CO1:learn basics of fermentations, starter cultures, and Fermentor and To learn making process of various fermented products PO1: They will learn about fermentation and range of products made from fermentation
	UBD T - 233	Nutrition Science				Role of nutrients,	CO1:They will understand





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						balance diet, BMR	nutrients and food component that supply nourishment to the body and know about the functions, deficiency and toxicity of nutrients PO1: They will be able to learn about nutrients and role of nutrients in human body
	UBD T – 231-1	Dairy Processing Equipment				Study of milk tankers, cream separator, homogenizer, and other dairy equipments	CO1:They will know about maintenance of Equipments and understand the design and working of the equipments PO1: They will learn about Design,





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						working and maintenance of Equipments .
UBD T – 231-2	Fermented Milk Products		Study of preparation of different types of fermented milk products			CO1:They will understand technology behind preparation of fermented milk products PO1: They will learn about fermentation and range of products made from fermentation
UBD T – 231-3	Nutrition Science				Study of different nutrient rich products	CO1:They will learn to prepare different nutrient rich products PO1: They will be able to learn about nutrients and role of nutrients in





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						human body
UBD T - 241	Dairy Engineering				Study of refrigeration unit in dairy industry	CO1: They will learn about refrigeration unit in dairy industries. PO1: They will study the different utilities used in dairy plant
UBD T - 242	Traditional Indian Dairy Products		Indigenous milk products like paneer, concentrated milks ,etc			CO1: They will learn the making process of different indigenous milk products PO1: They will know importance of indigenous milk product and its market demand
UBD T - 243	Food Safety, Hygiene				Basic concept of food safety	CO1: They will know about Food





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		and Sanitation				and hygiene, GMP, GHP, HACCP, ISO, TQM	safety, hygiene and sanitation, CO2:They will learn Industrial waste utilization CO3:They will learn hygiene practices like GMP, GHP, HACCP, etc PO1: They will understand Food safety, hygiene and sanitation
	UBD T – 241-1	Dairy Engineering				Study of different utilities in dairy industry like refrigerator , cold storage, etc	CO1:They will study the different utilities used in dairy industry PO1: They will study the different utilities





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						used in dairy plant
UBD T – 241-2	Traditional Indian Dairy Products		Study of making process of different indigenous milk products			CO1:They will learn the making process of different indigenous milk products PO1: They will know importance of indigenous milk product and its market demand
UBD T – 241-3	Food Safety, Hygiene and Sanitation				Study of CIP system, personal hygiene habits	CO1:They will study the sanitization and hygiene in dairy industries, personal hygiene , CIP systems PO1: They will understand Food safety, hygiene





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							and sanitation
	BDT -501	Quality Assurance and Waste Management				Study of quality and importance of quality, Sensory evaluation, waste management	CO1: They will understand the importance of quality in food production and will learn various methods of analysis in dairy industry PO1: They will understand the importance of quality in food production
	BDT -502	Fat Rich Milk Products		Study of fat rich products like ghee, butter, cream butter oil, etc			CO1: They will learn different types of fat rich products made from milk. PO1: They will understand the range of products





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							made from milk fat.
	BDT -503	Dairy plant Management				Production management, plant operations, manpower planning, etc	CO1:They will learn key skills in managing the efficiency and manpower of the dairy plant. PO1: They will learn basics of management
	BDT - 5.1	Quality Assurance and Waste Management				Study of COD and BOD, microbiological analysis of air and water, acidity of milk	CO1:They will learn different analysis methods used for analysis of different CO1:quality parameters of food PO1: They will understand the importance of quality in food production





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	BDT – 5.2	Fat Rich Milk Products		Study of making process of different fat rich products			CO1:They will learn the making procedure and principle of different fat rich milk products. PO1: They will understand the range of products made from milk fat
	BDT – 5.3	Project		project work related to design and development of innovative food product, its quality evaluation, packaging, labeling and shelf life testing			CO1:They will learn to design and develop innovative food products and work on its packaging, labeling, shelf life , etc PO1: They will learn to design and develop innovative food product, its quality evaluation, packaging,





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							labeling and shelf life testing
	BDT - 601	Dairy product development		Study of different dairy products, dried milk products, frozen dairy products			CO1:They will understand the different types of milk and their making procedures, Compositions and use. PO1: They will learn about development and preparation of different types of milks.
	BDT - 602	Packaging technology				Introduction to different packaging materials and packaging systems	CO1:They will learn about packaging materials used in dairy and food sector PO1: They will learn about the packaging technology of dairy products.





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	BDT - 603	Entrepreneurship Development		Entrepreneurship and Market Survey and Opportunity Identification			CO1: They will understand the concept of entrepreneurship and learn key skills for being a successful entrepreneur PO1: They will learn key skills for being a successful entrepreneur
	BDT - 6.1	Dairy product development		Study of different types of milks and its processing			CO1: They will learn to prepare and study different types of milks and its processing. PO1: They will learn about development and preparation of different types of milks.





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	BDT - 6.2	Packaging technology				Study of identification and testing of different packaging materials	CO1: They will learn about types of packaging materials used in food and dairy industry. CO2: They will learn the packaging process in dairy and food industry PO1: They will learn about the packaging technology of dairy products.
	BDT -6.3	In-plant Training		Training/Internship			CO1: They will learn actual processing, packaging in the dairy industry. PO1: They will understand the detailed manufacturing, processing





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							and packaging of dairy products.
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E-COMMERCE & DIGITAL MARKETING

Programme	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
			Local	National	Regional	Global	
E-Commerce & Digital Marketing	ECD-101-MJM	Business Communication-I (T)				Process of Communication	PSO3 CO1
	ECD-102-MJM	Fundamentals of Information Technology (T)	Basic Hardware and software market and technology	Analyze common business functions and identify, design, and develop appropriate information technology solutions.			PSO3 CO3, 4
	ECD-103-MJM	MS-Office (P)	Learners will understand how to use Word,				PSO8 CO1, 2, 3





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			Excel, and PowerPoint in a variety of professional				
	ECD-116-OE	Basics of Marketing- I(T)	Role of customers in marketing		analyzing the marketing environment	The Holistic marketing	PO8 CO1, 2, 3
	ECD-117-OE	Basics of Marketing- II(P)	Role of customers in marketing		analyzing the marketing environment	The Holistic marketing	PO8 CO1, 2, 3
	ECD-121-VSC	Basics of E-Commerce (T)			impact of E-commerce on business models and strategy	impact of E-commerce on business models and strategy	PSO1 CO1, 2, 3
	ECD-126-SEC	SEC: Life Skills (P)	Demonstrate knowledge of personal beliefs and values	-	-	-	CO1, 2, 3
	ENG-131-AEC	English- I (T)				Process of Communication	PSO3 CO1
	ECD-135-VEC	Environment Education (T)	Demonstrate knowledge of personal beliefs and values				CO1, 2, 3
	ECD-137-IKS	Evolution of E-Commerce &			impact of E-commerce on	impact of E-commerce on business	PSO1





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		Digital marketing (T)			business models and strategy	models and strategy	CO1, 2, 3
	ECD-151-MJM	Business Communication-II(T)	Internal and other Correspondence			New Technologies in Business Communication	PSO3 CO1, 2, 3
	ECD-152-MJM	RDBMS(T)	Produces an Entity-Relationship model from a realistic problem specification				PO8 CO1, 2, 3
	ECD-153-MJM	MySQL(P)	Produces an Entity-Relationship model from a realistic problem specification				PO8 CO1, 2, 3
	ECD-161-MN	Operations & Supply Chain Management(T)	Manufacturing trends in India,	Services as a part of OM, Operations as a key functional area	OM a system perspective functions of OM,	challenges and current priorities of OM.	CO1, 2, 3
	ECD-166-OE	E-Commerce Management-I (T)				new communication/marketing approaches to create competitive	CO1, 2, 3





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						advantage in the Digital world.	
	ECD-167-OE	E-Commerce Management-II (P)				new communication /marketing approaches to create competitive advantage in the Digital world.	CO1, 2, 3
	ECD-171-VSC	Marketing Skills (T)	Role of customers in marketing		analyzing the marketing environment	The Holistic marketing	PO8 CO1, 2, 3
	ECD-176-SEC	Web Technology using HTML(P)	HTML and common terminology related to HTML		use HTML tags and tag attributes to control a Web page's appearance		PO2, CO1, 2, 3
	ENG-181-AEC	Functional English-II			Content writing		PSO3 CO1
	ECD-185-VEC	Digital & Tech. Solutions (T)				new communication /marketing approaches to create competitive advantage in	CO1, 2, 3





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						the Digital world.	
	UBEC DM-231	Fundamentals of Management	Management-Administration-Organization			Universality of management	PO5 CO1, 2, 3
	UBEC DM-232	Marketing Management	Need for new product development				PO5 CO1, 2, 3
	UBEC DM-233	Hardware Networking & System Administration		CCNA	Linux Cmd		PO8 CO1, 2, 3
	UBEC DM-234	Digital marketing	Scope of Digital Marketing			Latest Digital Marketing Trends	PO8 CO1, 2, 3
	UBEC DM-235	Programming Lab on C & OOP through C++	Analyze algorithms and algorithm correctness, searching and sorting techniques			Coding and development	PSO3 CO1





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UBEC DM- 236	Internship - I	explore different digital marketing channels and strategies		understand the importance of data analytics in digital marketing		PSO3 CO1
UBEC DM- 241	Social Media Marketing	The basics of the new digital landscape		Setting Up Tools		PO5 CO1, 2, 3
UBEC DM- 242	Integrated Marketing Communication	developing and designing an effective advertising and sales promotion program				CO1, 2,3
UBEC DM- 243	Software Engineering	demonstrating competence in communication, planning, analysis, design, construction, and deployment		the techniques and tools necessary for engineering practice		PO5 CO1, 2, 3
UBEC DM- 244	CMS platforms for E- Commerce	Explore and customize WordPress themes to create visually appealing websites		to analyze website traffic using WordPress		PO2, CO1, 2, 3





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		e Websites			analytics tools		
	UBEC DM- 245	Program ming Lab on PHP	web designing technologies		Advance d database techniqu es		PO5 CO1, 2, 3
	UBEC DM- 246	Internship -II	explore different digital marketing channels and strategies		understa nd the importan ce of data analytics in digital marketin g		PSO3 CO1
	ECD M501	Entrepren eurship Develop ment & Project Managem ent	give insights into the Management of Small Family Business		Role of Support Institutio ns and Manage ment of Small Business		CO1, 2,3,4
	ECD M502	Marketin g Research	basic skills to conduct professional marketing research				CO1, 2,3,4
	ECD M503	Human Resources Managem ent	HRM: Policies and practices			Linkage of organizational and HR strategies	CO1, 2,3,4
	ECD M504	Social Media Marketin g- II	The basics of the new digital landscape		Setting Up Tools		CO1, 2,3,4





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	ECD M505	Graphics designs for Digital Marketing	create visual content to communicate information	Latest trends in graphics design			CO1, 2,3
	ECD M506	Project- I	Project report on Social Media Marketing				CO1, 2,3
	ECD M601	Digital Media and the Law		Theories and Models of Advertising	Understanding Brands, Working of Advertising Agency		CO1, 2,3
	ECD M602	Integrated Marketing Communication	developing and designing an effective advertising and sales promotion program				CO1, 2,3
	ECD M603	Advance Digital Marketing-I			provide insights on how to implement marketing in a digital world	provide insights on how to implement marketing in a digital world	CO1, 2
	ECD M604	Advance Digital	competitive advantage in	competitive			CO1, 2,3





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		Marketing-II	the Digital world	advantage in the Digital world			
	ECD M605	Project- II	Project report on Web Development				CO1, 2,3
	ECD M606	Project- III	Project report on Advance Digital Marketing				CO1, 2,3





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FOOD PROCESSING & POST HARVEST TECHNOLOGY

Programme	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
			Local	National	Regional	Global	
B.Voc. Food Processing & Post Harvest Technology (UG)	FT R-101	Principles of Food Preservation	Dehydration, Fermentation	Canning, Pasteurization, Standardization, Freezing, Chilling	Dehydration, Fermentation	Canning, Pasteurization, Standardization, Freezing, Chilling	<p>CO1: Students will have a thorough understanding of various food processing techniques. The students will know the importance of various preservation techniques.</p> <p>PO1: Understand the basic concepts, fundamental principles and experimental findings and the scientific theories related to food technology, food science and Food technology & engineering and its other fields related to the program.</p> <p>PO6: Operate modern tools, equipment, instruments and laboratory techniques to perform the experiments and write the programs in different languages.</p>
	FT R-151	Nutrition Science	Fitness and Sports, Balance diet	National Nutritional Policy	Fitness and Sports, Balance diet	Balance diet, BMR	<p>Students will be able to:</p> <p>CO1: Utilize knowledge from the physical and biological sciences as a basis for understanding the role of food and nutrients in health and disease processes.</p> <p>PO4: Analytical Reasoning and Problem Solving- To</p>





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						<p>enable the students with good scientific and engineering knowledge so as to comprehend, design, and create food products and devices for the food industry and provide solutions for the challenges in the food industry as well as in agriculture.</p> <p>PO1:-Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific theories related to food technology, food science and Food technology & engineering and its other fields related to the program.</p> <p>CO2: Provide nutrition counselling and education to individuals, groups, and communities throughout the lifespan using a variety of communication strategies.</p> <p>PO12: Lifelong Learning: - Propose novel ideas in explaining the scientific data, facts and figures related to Science and technology.</p> <p>CO3: Evaluate nutrition information based on scientific reasoning for clinical, community, and food service application.</p>
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							PO4: Analytical Reasoning and Problem Solving- To enable the students with good scientific and engineering knowledge so as to comprehend, design, and create food products and devices for the food industry and provide solutions for the challenges in the food industry as well as in agriculture.
	UB FP2 31	Processing of Fruits, Vegetables and Plantation Crops	Drying, utilization of Fruit and Vegetable waste	Quality Control in Food Processing Industry,	utilization of Fruit and Vegetable waste	Osmotic dehydration, canning, freezing	CO1: Students will have a thorough understanding of various food processing techniques. PO8: Application of Knowledge: - Develop a scientific outlook and apply the knowledge with respect to food technology. CO2: The students will know the importance of various preservation techniques. PO1: Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific theories related to food technology, food science and Food technology & engineering and its other fields related to the program.
	UB FP2 41	Processing of Cereals,	Milling of cereal & pulses	-	Milling of cereal & pulses	Processing of hot serve cereals and ready-to-eat breakfast	CO1: Students will have a thorough understanding the unit operations followed for raw form to an edible form of cereals and legumes.





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		Pulse s and Oilse eds	, Extra ction of oil and refini ng		, Extra ction of oil and refini ng	cereals, Flakes, shreds, granules, puffed cereals, sugar coated products, popped and puffed snacks	PO8: Application of Knowledge: - Develop a scientific outlook and apply the knowledge with respect to food technology CO2: The students will know the importance of various methods to identify any disorder in fresh commodities. PO6: Use of Modern Tools: - Operate modern tools, equipment, instruments and laboratory techniques to perform the experiments and write the programs in different languages.
	UB FP2 42	Baker y and Confe ctione ry Tech nolog y	-	-	-	preparation methods of bread, cake, biscuits, cookies, pastry, buns, crackers, types of quick bread, chocolate manufacture	CO1: Students will have a thorough understanding the processing and preservation of appetizers. PO1: Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific the ories related to food technology, food science and Food technology & engineering and its other fields related to the program. CO2: Students will have a thorough understanding on effect of blending and baking on final product of bakery. PO6: Use of Modern Tools:- Operatemoderntools,equipme nt,instrumentsandlaboratoryte chniquesto perform the experiments and write the





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						<p>programs in different languages.</p> <p>CO3: The students will know the various extruded product development.</p> <p>PO7: Research Skills:- Understand how to design, collect, analyze, interpret and evaluate information/data that is relevant to food technology.</p>
	FP-13	Dairy Technology	Manufacturing of Ghee, Milk powder, Khoa, milk based sweets		Manufacturing of Ghee, Milk powder, Khoa, milk based sweets	<p>standardization, Homogenization, Pasteurization, Homogenizers, Bottle and pouch fillers, Milk Chillers, Manufacture of Ice Cream, Cream, Paneer, Butter</p> <p>On completion of the course, students will be able to:</p> <p>CO1: Give a comprehensive view of the composition of milk, its chemical, physical and organoleptic properties that can be applied in technological processing of milk.</p> <p>PO4: Analytical Reasoning and Problem Solving- To enable the students with good scientific and engineering knowledge so as to comprehend, design, and create food products and devices for the food industry and provide solutions for the challenges in the food industry as well as in agriculture.</p>





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						<p>CO2: Explain the production of milk and pre-treatment of milk.</p> <p>PO7: Research Skills:- Understand how to design, collect, analyze, interpret and evaluate information/data that is relevant to food technology.</p> <p>CO3: Explain the dairy processing technologies.</p> <p>PO1: Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific theories related to food technology, food science and Food technology & engineering and its other fields related to the program.</p> <p>CO4: Apply methods of analysis for dairy products and relate differences in composition and structure to differences in manufacturing processes.</p>
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							<p>PO8: Application of Knowledge:- Develop a scientific out look and apply the knowledge with respect to food technology.</p> <p>CO5: Create a dairy product and evaluate relevant physical properties.</p> <p>PO7: Research Skills:- Understand how to design, collect, analyze, interpret and evaluate information/data that is relevant to food technology.</p>
	FP-14	Food Quality, Laws and Regulations	Quality control laboratories of companies, Quality control laboratories of Consumer	Essential Commodities Act, Standards of Weights and Measures, Export (Quality and Inspection)	Quality control laboratories of companies, Quality control laboratories of Consumer	Prevention of Food Adulteration Act, Food Safety Standard Authority of India (FSSAI), Codex Alimentarius, Codex India, World Health Organization, International Organization	<p>On completion of the course, students will be able to:</p> <p>CO1: Be able to critically evaluate the recent developments in the control of food safety.</p> <p>PO3: Critical Thinking :- Propose novel ideas in explaining the scientific data, facts and figures related to Science and technology.</p> <p>CO2: Have an integrated view of the issues involved.</p>





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			co-operatives, Private testing laboratories, Consumer Guidance Society	Act, Bureau of Indian Standards, Act, Agmark Grading and Marketing Act and Rules Nutritional Labelling & Education act, Municipal Laboratories, Food and Drug Administration, The central	co-operatives, Private testing laboratories, Consumer Guidance Society	for Standardization, Food and Agriculture Organization, Joint FAO/WHO Expert committee on food additives, British Retail Consortium(BRC) standard for Foods.	<p>PO5: Sense of Inquiry:- Curiously ask relevant questions for better understanding of fundamental concepts and principles, scientific theories and applications related to the study.</p> <p>CO3: Be able to conduct risk assessments of food safety problems including genetic modification.</p> <p>PO11: Environment and Sustainability:- Develop various communication skills such as reading, listening and speaking skills to express ideas and views clearly and effectively.</p> <p>CO4: Demonstrate detailed knowledge of the requirements for compliance with national and international food safety legislation.</p> <p>PO11: Environment and Sustainability:- Develop various communication skills such as</p>
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				Food Testing Laboratory, Export Inspection Council Laboratory			reading, listening and speaking skills to express ideas and views clearly and effectively. CO5: Know how to control and maintain a quality management system. PO9: Ethical Awareness- To train students in professional and ethical attitude, effective communication skills, team work skills and multidisciplinary approaches related to food Technology and engineering.
	FP-15	Principles of Post Harvests Technology	Harvesting factors, Maturity of harvest, Harvesting Methods, Cleaning and Grading		Harvesting factors, Maturity of harvest, Harvesting Methods, Cleaning and Grading	Post harvest technology of Cereal, Pulses, Oilseeds, Fruits and Vegetables, meat, milk, fish & Food storage systems	On completion of the course, students will be able to: CO1: Understand technologies of post harvest technology and its role in providing better quality produce to the consumer. PO1: Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific theories related to food technology, food science and





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			ng, Food storag e syste ms		ng, Food storag e syste ms		<p>Food technology & engineering and its other fields related to the program.</p> <p>CO2: Understand importance prevention of losses.</p> <p>PO4: Analytical Reasoning and Problem Solving- To enable the students with good scientific and engineering knowledge so as to comprehend, design, and create food products and devices for the food industry and provide solutions for the challenges in the food industry as well as in agriculture.</p> <p>CO3: Understand utilization of the produce and methods for shelf life extension.</p> <p>PO6: Use of Modern Tools:- Operatemoderntools,equipme nt,instrumentsandlaboratoryte chniquesto perform the experiments and write the programs in different languages.</p>
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							<p>CO4: Understand cold chain management</p> <p>PO8: Application of Knowledge:- Develop a scientific out look and apply the knowledge with respect to food technology.</p> <p>CO5: Learn quality control and various standards required for domestic and export market.</p> <p>PO1: Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific theories related to food technology, food science and Food technology & engineering and its other fields related to the program.</p>
	FP-17	Food Safety, Hygiene and Sanitation	Types of hazards, Control methods	SOPs, HACCP, ISO series, TQM, Product	Types of hazards, Control methods	GHPs, GMPs, SOPs, HACCP, ISO series, TQM, Product labelling and	<p>On completion of the course, students will be able to:</p> <p>CO1: Identify food safety hazards and their control</p> <p>PO3: Critical Thinking :- Propose novel ideas in</p>





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			using physical and chemical agents, Waste Disposal, Pest and Rodent Control, Personnel Hygiene, Food Safety Measures	labelling and Nutritional labelling	using physical and chemical agents, Waste Disposal, Pest and Rodent Control, Personnel Hygiene, Food Safety Measures	Nutritional labelling	<p>explaining the scientific data, facts and figures related to Science and technology.</p> <p>CO2: Identify & prevent potential sources of food contamination.</p> <p>PO3: Critical Thinking :- Propose novel ideas in explaining the scientific data, facts and figures related to Science and technology.</p> <p>PO8: Application of Knowledge:- Develop a scientific outlook and apply the knowledge with respect to food technology.</p> <p>CO3: Apply the principles of Hazard Analysis Critical Control Points (HACCP).</p> <p>PO8: Application of Knowledge:- Develop a scientific outlook and apply the knowledge with respect to food technology.</p> <p>CO4: Recognize the principal legal responsibilities of food</p>
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						<p>handlers regarding personal hygiene.</p> <p>PO4: Analytical Reasoning and Problem Solving- To enable the students with good scientific and engineering knowledge so as to comprehend, design, and create food products and devices for the food industry and provide solutions for the challenges in the food industry as well as in agriculture.</p> <p>CO5: Apply a range of food quality systems</p> <p>PO8- Application of Knowledge:- Develop a scientific out look and apply the knowledge with respect to food technology.</p> <p>CO6: Prepare a food safety plan</p> <p>PO3- Critical Thinking :- Propose novel ideas in explaining the scientific data, facts and figures related to</p>
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						Science and technology.
FP-18	Packaging Technology	-	-	-	Vacuum, CA and MA packaging systems, gas packaging machine; seal and shrink packaging machine; form and fill sealing machine; aseptic packaging systems; bottling machines; carton making machines	<p>On completion of the course, students will be able to:</p> <p>CO1: Describe the role and function of packaging materials used for a range of consumer food .</p> <p>PO1: Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific theories related to food technology, food science and Food technology & engineering and its other fields related to the program.</p> <p>CO2: Design solutions to packaging problems.</p> <p>PO7- Research Skills:- Understand how to design, collect, analyze, interpret and evaluate information/data that is relevant to food technology.</p> <p>CO3: Measure and evaluate the chemical, physical and mechanical properties of packages and packaging.</p>





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						<p>PO7- Research Skills:- Understand how to design, collect, analyze, interpret and evaluate information/data that is relevant to food technology.</p> <p>CO4: Explain knowledge of the legal, environmental, quality aspects associated with packaging materials and operations used in the food industry.</p> <p>PO1: Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific theories related to food technology, food science and Food technology & engineering and its other fields related to the program.</p>
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Programme	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
			Local	National	Regional	Global	
M.Voc. Food Processing Technology (PG)	FTR - 561-MJE	Beverages and Snack Food Technology	Packaged drinking water Processing, roasted, toasted, puffed, popped and flakes Coated grains-salted, spiced and sweetened Flour based snack-batter and dough based products; savour	FSSAI specifications for beverages	Packaged drinking water Processing, roasted, toasted, puffed, popped and flakes Coated grains-salted, spiced and sweetened Flour based snack-batter and dough based products; savour	FSSAI specifications for beverages, Technology for fruit and vegetable based snacks, Technology for coated nuts, technology for RTE puffed snack	<p>After learning this subject</p> <p>CO1: Students will be able to know different types of beverages found in Indian as well as international market.</p> <p>PO1:- Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific theories related to food technology, food science and Food technology & engineering and its other fields related to the program.</p> <p>CO2: Students will have better ideas regarding alcoholic and non-alcoholic Beverages with water industry.</p> <p>PO3- Critical Thinking :- Propose novel ideas in explaining the scientific data, facts and figures related to Science and technology.</p> <p>CO3: Students will have thorough knowledge of different types of cereal based</p> <p>PO1:- Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific theories related to food technology, food science and Food technology & engineering and its other fields related to the program.</p>





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			y and farsans; formulated chips and wafers, papads.		y and farsans; formulated chips and wafers, papads.		CO4: Students will get brief knowledge of fruits and vegetables based snacks. PO8- Application of Knowledge:- Develop a scientific outlook and apply the knowledge with respect to food technology.
	FTR -552	Food Additives, and Toxicology	Food, contaminants, types of food additives	-	Food contaminants, types of food additives	Toxicological evaluation of food additives	Students should be able to: CO1: Uses of additive in food material PO6- Use of Modern Tools:- Operate modern tools, equipment, instruments and laboratory techniques to perform the experiments and write the programs in different languages. CO2: Effects of toxicants in human PO3- Critical Thinking :- Propose novel ideas in explaining the scientific data, facts and figures related to Science and technology.
	FTR -551	Food Processing and Packaging	Biodegradable plastics, Edible gums, Coatings	-	Biodegradable plastics, Edible gums, Coatings	Classification of Thermal Processes, freezing, Active packaging,	CO1: Students will be able to understand major food preservation and Packaging techniques and underlying principles. PO1:- Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific theories related to food technology, food science and Food technology & engineering





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	PM FP2 31	Dairy Proce ssing Techn ology	Produ ction and proces sing of cream, butter and ghee	Challe nges faced by the Indian Dairy Suppl y Chain	Produ ction and proces sing of cream, butter and ghee	Chees e Techn ology, Suppl y Chain Mana geme nt of Dairy Produ cts	CO1: Students will understand the concept of processing of milk and milk products. PO1:- Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific theories related to food technology, food science and Food technology & engineering and its other fields related to the program. CO2: The students will be able to explain the basics behind milk process technology that would comparatively help to get the knowledge of technical views regarding industrial aspect. PO8- Application of Knowledge:- Develop a scientific outlook and apply the knowledge with respect to food technology.
	PM FP2 32	Post- Harve st	Size reducti on proces	WTO guidel ines for	Size reducti on proces	Unit operat ions of	CO1: Students will acknowledge the steps and techniques involved in post-harvest practices.





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		Techn ology	s, Mass, Energ y balanc e and Heat transfe r, Produ cts and by produc ts of plantat ion crops: cashe w, areca nut, cocon ut, Coolin g treatm ents for fruits, vegeta bles and plantat ion crops, Ripeni ng metho ds	export of hortic ultural produ ces – COD EX standa rds and export standa rds for major fruits, vegeta bles and planta tion crops.	s, Mass, Energ y balanc e and Heat transfe r, Produ cts and by produc ts of plantat ion crops: cashe w, areca nut, cocon ut, Coolin g treatm ents for fruits, vegeta bles and plantat ion crops, Ripeni ng metho ds	food proces sing, postha rvest disord ers, pest and diseas es and their mana geme nt in major hortic ultural crops	PO1:- Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific theories related to food technology, food science and Food technology & engineering and its other fields related to the program. CO2: The students will be able to explain processing and packaging operations. PO6- Use of Modern Tools:- Operate modern tools, equipment, instruments and laboratory techniques to perform the experiments and write the programs in different languages.
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PM FP2 33	Food Safet y and Qualit y Mana geme nt	Good manuf acturin g practic es (GMP)	HAC CP, ISO, Codex Alime ntariu s Com missio n (CAC)	Good manuf acturin g practic es (GMP)	HAC CP, ISO, Codex Alime ntariu s Com missio n (CAC)	CO1: Students will understand the concept of quality management in food processing. PO8- Application of Knowledge:- Develop a scientific outlook and apply the knowledge with respect to food technology. CO2: The students will able to explain the degree of standard of any processed product. PO5- Sense of Inquiry:- Curiously ask relevant questions for better understanding of fundamental concepts and principles, scientific theories and applications related to the study.
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MEDIA AND COMMUNICATION STUDIES

Program me	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
			Local	National	Regional	Global	
B.Voc. Journalism and Mass Communication	JMC-101-MJM	Introduction to Mass Communication				Process of Communication	PO-1,2,3,4,5,6,7,8,9 PSO-1,2,3,4,5,6,7 CO1,2,3,4,5,6,7
	JMC-102-MJM	UBJM112 Introduction to Journalism		Legal and ethical Framework			PO-1,2,3,4,5,6,7,8,9 PSO-1,2,3,4,5,6,7 CO1,2,3,4,5,6,7
	JMC-103-MJM	Basics of Photography		Composition	Camera modes , Camera controls		PO-1,2,3,4,5,6,7,8,9 PSO-1,2,3,4,5,6,7 CO1,2,3,4,5,6,7
	JMC-116-OE	Aesthetics of photography	-	-	-	Types of photography	PO-1,2,3,4,5,6,7,8,9 PSO-1,2,3,4,5,6,7 CO1,2,3,4,5,6,7





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	JMC-117-OE	Mobile Photography		Photo Composition for Photo stories		Photography for Photo stories	PO-1,2,3,4,5,6,7,8,9 PSO-1,2,3,4,5,6,7 CO1,2,3,4,5,6,7
	JMC-121-VSC	Computer Application for Media	MS-WORD	Web development: HTML and Scripting language	Introduction to Photoshop		PO-1,2,3,4,5,6,7,8,9 PSO-1,2,3,4,5,6,7 CO1,2,3,4,5,6,7
	JMC-126-SEC	Anchorin g skills		Qualities of Anchor			PO-1,2,3,4,5,6,7,8,9 PSO-1,2,3,4,5,6,7 CO1,2,3,4,5,6,7
	JMC-137-IKS	Indian Folk Media		The Relevance of Folk Arts in current Media	Ancient Indian Folk Art Forms Part		PO-1,2,3,4,5,6,7,8,9 PSO-1,2,3,4,5,6,7 CO1,2,3,4,5,6,7
	JMC-151-MJM	News Reporting and Editing		Practice Writing	Various Types of Online Media Writing		PO8 CO1,2, 3





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	JMC-152-MJM	Current affairs World , India, Maharashtra		Contemporary Economic Scenario		Socio-political scenario of World Science, Educational & Agricultural Scenario	PO-1,2,3,4,5,6,7,8,9 PSO-1,2,3,4,5,6,7 CO1,2,3,4,5,6,7
	JMC-153-MJM	News reporting and editing Practices	Writing features and human-interest stories.	Writing across media			PO-1,2,3,4,5,6,7,8,9 PSO-1,2,3,4,5,6,7 CO1,2,3,4,5,6,7
	JMC-161-MN	Introduction to social Media				Contents on Social Media, Social Networking Sites	PO-1,2,3,4,5,6,7,8,9 PSO-1,2,3,4,5,6,7 CO1,2,3,4,5,6,7
	JMC-166-OE	Introduction to podcast	Production of Podcast	Production possibilities and trends			PO-1,2,3,4,5,6,7,8,9 PSO-1,2,3,4,5,6,7 CO1,2,3,4,5,6,7
	JMC-167-OE	Podcast production	Podcast Production and distribution				PO-1,2,3,4,5,6,7,8,9





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							PSO- 1,2,3,4,5, 6,7 CO1,2, 3,4,5,6,7
	JMC- 171- VSC	Writing for Media	Narrative Story with dialogues		Introducti on to Various Types of Online Media Writing		PO- 1,2,3,4,5, 6,7,8,9 PSO- 1,2,3,4,5, 6,7 CO1,2, 3,4,5,6,7
	UBJ M126	Content Productio n on Mobile	Creation of short Videos		Types of Content		PO- 1,2,3,4,5, 6,7,8,9 PSO- 1,2,3,4,5, 6,7 CO1,2, 3,4,5,6,7
	UBJ M 231	News Reporting and Editing-II	Layout Design and Photojour nalism		Reporting , Interviewi ng, Creative Editing		PO- 1,2,3,4,5, 6,7,8,9 PSO- 1,2,3,4,5, 6,7 CO1,2, 3,4,5,6,7
	UBJ M 232	Writing for Media-II	Creative Content Creation		Writing for Non- Fiction Genres		PO- 1,2,3,4,5, 6,7,8,9 PSO- 1,2,3,4,5, 6,7 CO1,2, 3,4,5,6,7





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	UBJ M 233	Introducti on to Radio		Radio News, Productio n technolog y	Radio News, Productio n technolog y		PO- 1,2,3,4,5, 6,7,8,9 PSO- 1,2,3,4,5, 6,7 CO1,2, 3,4,5,6,7
	UBJ M 234	Reporting and Editing Skills	Specialize d Writing, Layout and design	Photograp hy	Writing across media		PO- 1,2,3,4,5, 6,7,8,9 PSO- 1,2,3,4,5, 6,7 CO1,2, 3,4,5,6,7
	UBJ M 235	Radio Productio n	Radio Program productio n		Advertis ment		PO- 1,2,3,4,5, 6,7,8,9 PSO- 1,2,3,4,5, 6,7 CO1,2, 3,4,5,6,7
	UBJ M 236	Experime ntal Journal	produce a four-page newspape r		Design and layout		PO- 1,2,3,4,5, 6,7,8,9 PSO- 1,2,3,4,5, 6,7 CO1,2, 3,4,5,6,7
	UBJ M241	Introducti on to Televisio n	News Gathering		Televisio n Program ming		PO- 1,2,3,4,5, 6,7,8,9 PSO- 1,2,3,4,5, 6,7





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							CO1,2, 3,4,5,6,7
	UBJ M242	Media Laws and Ethics		Ethical Issues in Indian Media, Media Regulatio n in India			PO- 1,2,3,4,5, 6,7,8,9 PSO- 1,2,3,4,5, 6,7 CO1,2, 3,4,5,6,7
	UBJ M243	Introducti on to Media Economic s		Introducti on to Indian Economy	Contemp orary Economic Issues in State of Maharash tra	Internatio nal Trade and its impact	PO- 1,2,3,4,5, 6,7,8,9 PSO- 1,2,3,4,5, 6,7 CO1,2, 3,4,5,6,7
	UBJ M244	Televisio n Productio n	News Anchorin g	News Productio n- Packaging and productio n	News Gathering and writing		PO- 1,2,3,4,5, 6,7,8,9 PSO- 1,2,3,4,5, 6,7 CO1,2, 3,4,5,6,7
	UBJ M245	Aesthetic s of Audio- Visual Contents	Other Film Institution s		World and Indian Cinema		PO- 1,2,3,4,5, 6,7,8,9 PSO- 1,2,3,4,5, 6,7 CO1,2, 3,4,5,6,7
	UBJ M246	Introducti on to Video Productio n	Camera Exercise, Editing,				PO- 1,2,3,4,5, 6,7,8,9





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			Camera Techniques				PSO-1,2,3,4,5,6,7 CO1,2,3,4,5,6,7
	JM 501	Introduction to Digital Media		Social Media, New Media Theories	Digital storytelling		PO-1,2,3,4,5,6,7,8,9 PSO-1,2,3,4,5,6,7 CO1,2,3,4,5,6,7
	JM 502	Introduction to Media Research	Data Analysis	Qualitative research methods, Quantitative research methods			PO-1,2,3,4,5,6,7,8,9 PSO-1,2,3,4,5,6,7 CO1,2,3,4,5,6,7
	JM 503	Mass Communication Theory	Personal Influence and Sociological Theory	Normative Theories of Mass Communication	Mass Media and Culture	Mass Communication Theories	PO-1,2,3,4,5,6,7,8,9 PSO-1,2,3,4,5,6,7 CO1,2,3,4,5,6,7
	JM 504	Content Development For Digital Media	Writing for Digital Media		Fake News and facts checking	Twitter and Instagram, YouTube	PO-1,2,3,4,5,6,7,8,9 PSO-1,2,3,4,5,6,7 CO1,2,3,4,5,6,7





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	JM 505	Video Production Group Project	Screenplay writing, Script writing, Production Work				PO- 1,2,3,4,5, 6,7,8,9 PSO- 1,2,3,4,5, 6,7 CO1,2, 3,4,5,6,7
	JM 506	Industry Internship			Internship		PO- 1,2,3,4,5, 6,7,8,9 PSO- 1,2,3,4,5, 6,7 CO1,2, 3,4,5,6,7
	JM 601	Basics of Advertising		Theories and Models of Advertising	Understanding Brands, Working of Advertising Agency		PO- 1,2,3,4,5, 6,7,8,9 PSO- 1,2,3,4,5, 6,7 CO1,2, 3,4,5,6,7
	JM 602	Basics of Public Relations	PR during crisis		Use of Social Media in PR		PO- 1,2,3,4,5, 6,7,8,9 PSO- 1,2,3,4,5, 6,7 CO1,2, 3,4,5,6,7
	JM 603	Media Management	Marketing strategies		Finance and HR Management		PO- 1,2,3,4,5, 6,7,8,9 PSO- 1,2,3,4,5, 6,7





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							CO1,2, 3,4,5,6,7
	JM 604	Advertisi ng Practices	Creation of Advertisem ent	Online platforms for advertise ments	Advertisi ng Campaign design		PO- 1,2,3,4,5, 6,7,8,9 PSO- 1,2,3,4,5, 6,7 CO1,2, 3,4,5,6,7
	JM 605	Dissertati on/In- depth reporting (IDR)	RESEAR CH PROJECT				PO- 1,2,3,4,5, 6,7,8,9 PSO- 1,2,3,4,5, 6,7 CO1,2, 3,4,5,6,7
	JM 606	Internship			Internship		PO- 1,2,3,4,5, 6,7,8,9 PSO- 1,2,3,4,5, 6,7 CO1,2, 3,4,5,6,7
M.Voc. Media Studies	MS- 501- MJM	Introducti on to Media Studies	Types and Forms of Communi cation	Role of Media in Human Society , Media as Social Institute, Communi cation Theories			PO- 1,2,3,4,5, 6,7,8,9 PSO- 1,2,3,4,5, 6,7 CO1,2, 3,4,5,6,7





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	MS-502-MJM	Introduction to Journalism		Media Organizations and Professional bodies, Legal and ethical Framework:	Politics, Economics and Sociology of Journalism		PO-1,2,3,4,5,6,7,8,9 PSO-1,2,3,4,5,6,7 CO1,2,3,4,5,6,7
	MS-503-MJM	Introduction to Video Production		Visual Composition		Production Process I- From Idea to Screen	PO-1,2,3,4,5,6,7,8,9 PSO-1,2,3,4,5,6,7 CO1,2,3,4,5,6,7
	MS-504-MJM	Writing for Media	Story Writing	Introduction to Various Types of Media Writing			PO-1,2,3,4,5,6,7,8,9 PSO-1,2,3,4,5,6,7 CO1,2,3,4,5,6,7
	MS-505-MJM	Photography and Photo Editing		Photography for Photo stories, Photoshop			PO-1,2,3,4,5,6,7,8,9 PSO-1,2,3,4,5,6,7 CO1,2,3,4,5,6,7
	MS-511-	Understanding Cinema		Origin and History of		Film Genre,	PO-1,2,3,4,5,6,7,8,9





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	MJE (A)			Cinema		Form and Style	PSO-1,2,3,4,5,6,7 CO1,2,3,4,5,6,7
	MS-512-MJE (A)	Video Camera Techniques	Shooting Exercise	Composition			PO-1,2,3,4,5,6,7,8,9 PSO-1,2,3,4,5,6,7 CO1,2,3,4,5,6,7
	MS-511-MJE (B)	Political Communication	Political Campaigns and Propaganda.		Media and Political Communication		PO-1,2,3,4,5,6,7,8,9 PSO-1,2,3,4,5,6,7 CO1,2,3,4,5,6,7
	MS-512-MJE (B)	Advanced News Reporting and editing practices	News Reporting	Photojournalism	Specialized Writing		PO-1,2,3,4,5,6,7,8,9 PSO-1,2,3,4,5,6,7 CO1,2,3,4,5,6,7
	MS-521-RM	Media Research Methodology		Research Methods, The Research Process,			PO-1,2,3,4,5,6,7,8,9 PSO-1,2,3,4,5,6,7





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				Research Design			CO1,2,3,4,5,6,7
	MS-551-MJM	Media Society and Culture		Media Effects, Media Structure and Institution	Media Organizations in its Context		PO-1,2,3,4,5,6,7,8,9 PSO-1,2,3,4,5,6,7 CO1,2,3,4,5,6,7
	MS-552-MJM	Advertising		Advertising Agency, Advertising Media	Advertising Creativity, Advertising Campaign Planning		PO-1,2,3,4,5,6,7,8,9 PSO-1,2,3,4,5,6,7 CO1,2,3,4,5,6,7
	MS-553-MJM	Introduction to Digital Media		Digital Story Telling, Media Convergence		Digital Media Platforms	PO-1,2,3,4,5,6,7,8,9 PSO-1,2,3,4,5,6,7 CO1,2,3,4,5,6,7
	MS-554-MJM	Studio Production	Sound Recording, Vision Mixer exercises				PO-1,2,3,4,5 PSO-1,2,3 CO1,2,3,4





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	MS 555 MJM	Video Editing Techniques		Video Editing	Special treatment in editing		PO- 1,2,3,4,5, 6,7,8,9 PSO- 1,2,3,4,5, 6,7 CO1,2, 3,4,5,6,7
	MS- 561- MJE (A)	Script Writing		Understand ing Non- fiction			PO- 1,6,7,8,9 PSO- ,5,6,7 CO1,2, 3,
	MS- 562- MJE (A)	Mobile Productio n	Short Videos productio n on Mobile		Live Video Productio n		PO- 1,2,3,4,5, 6,7,8,9 PSO- 1,2,3,4,5, 6,7 CO1,2, 3,4,5,6,7
	MS- 561- MJE (B)	Digital Journalis m			Business of digital journalis m, Fake news		PO- 1,2,3,4,5, 6,7,8,9 PSO- 1,2,3,4,5, 6,7 CO1,2, 3,4,5,6,7
	MS- 562- MJE (B)	Digital Content Productio n	Digital news Productio n	Audio – video content creation			PO- 1,2,3,4,5, 6,7,8,9 PSO- 1,2,3,4,5, 6,7





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							CO1,2, 3,4,5,6,7
	PMM S 231A	Direction	-	-	-	-	-
	PMM S 232A	Sound and Post- productio n		Sound Editing , Advanced Post Productio n	Post Productio n Mixing		PO- 1,2,3,4,5, 6,7,8,9 PSO- 1,2,3,4,5, 6,7 CO1,2, 3,4,5,6,7
	PMM S 233A	Understan ding Documen tary	Interviewi ng: exercises, interview analysis.	Post- Productio n of Document ary			PO- 1,2,3,4,5, 6,7,8,9 PSO- 1,2,3,4,5, 6,7 CO1,2, 3,4,5,6,7
	PMM S 234A	Group Project	Crew Finalizati on and Final Draft of Screenpla y, Productio n, Post- Productio n				PO- 1,2,3,4,5, 6,7,8,9 PSO- 1,2,3,4,5, 6,7 CO1,2, 3,4,5,6,7
	PMM S 235A	Video Editing	Video Editing,				PO- 1,2,3,4,5, 6,7,8,9





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			Special treatment in editing, Packaging of the Video				PSO-1,2,3,4,5,6,7 CO1,2,3,4,5,6,7
	PMM S 236A	Lighting Techniques	Shooting, Lighting in Studio				PO-1,2,3,4,5,6,7,8,9 PSO-1,2,3,4,5,6,7 CO1,2,3,4,5,6,7
	PMM S 231B	Digital Advertising and Marketing	Video streaming platform, Consumer-generated content				PO-1,2,3,4,5,6,7,8,9 PSO-1,2,3,4,5,6,7 CO1,2,3,4,5,6,7
	PMM S 232B	New Media Studies & Digital Culture	Digital Story Telling	Digital Media Theories, Emerging Technologies			PO-1,2,3,4,5,6,7,8,9 PSO-1,2,3,4,5,6,7 CO1,2,3,4,5,6,7
	PMM S 233B	New Frontiers of Digital Journalism	-	-	-	-	-
	PMM S 234B	Group Project	-	-	-	-	-





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	PMM S 235B	Audio Productio n	Sound Productio n	Advertisin g productio n	Sound for Program , Productio n for Radio Program, Productio n of Podcast		PO- 1,2,3,4,5, 6,7,8,9 PSO- 1,2,3,4,5, 6,7 CO1,2, 3,4,5,6,7
	PMM S 236B	Digital Content Develop ment-I		Content creation for YouTube	Social media: strategy, tools, analytics, Photo features for Digital Platforms		PO- 1,2,3,4,5, 6,7,8,9 PSO- 1,2,3,4,5, 6,7 CO1,2, 3,4,5,6,7





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RETAIL MANAGEMENT

Sr No	Programme	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
				Local	National	Regional	Global	
1	B.Voc Retail Management (UG)	RTM - 116 - OE (T)	Business Communication-I	Modes of Communication and Techniques	Modes of Communication and Techniques	Modes of Communication and Techniques	Websites, ECS and Blogging	1] Students should be able to draft business letters. (CO 3) 2] Students should be able to acquaint knowledge of business communication (CO 4)





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2		RT M - 151 - MJ M	Principles of Managem ent-I	Planning and Decision Making	Manage ment Functions	Manage ment Functions	Manag ement Functio ns	1] Students should be able to understand the planning and decision- making process.(PS 006/ 2] Students should be able to integrate the knowledge of current development and management practices.
PS O		RT M - 176 - SEC	Managerial Economic s	Demand Forecasti ng	Demand & Supply Analysis	Market Analysis	Compet ition	1] Students should be able to integrate knowledge of market and effect on demand and supply of market PO3 2] Students make aware about the market analysis need





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4		RT M - 103- MJ M	Introducti on to Retailing	Organizat ion Structure in Retail	Retail organizat ion in India	Store Classifica tions	Global Retail Market	1] Students should be able to integrate knowledge of retail structure.
5		RT M- 161- MN	Retail Marketin g	Customer Relations hip Manage ment	Retail Industry in India	Digital Marketin g	Digital Marketi ng	1] Students should be able to understand credit management. 2] Students make aware about Retail Sales Management and Customer Relationship Management .PO7





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6		RT M - 126 - SEC	Principles of Consumer Behavior- I	Consumer Research	Marketing Mix	Marketing Mix	Lifestyle Influence	1] Students should be able to integrate about perception and behavior of consumer. PSO5 2] Students should be able to understand the how to handle the customers. P SO5
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	Programme	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
				Local	National	Regional	Global	
7	B.Voc Retail Management (UG)	RT M - 166 - OE (T)	Leadership & Succession Planning	Personality Development Factors	Mass Media	Regional Factors	Cultural Factors	1] Students should be know about basics principles of personality Development. 2] Students should be able to integrate the





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								knowle dge of how to Develo p Person ality and Team Buildi ng. PSO6
8		RT M - 153- MJ M	Advertisi ng & Sales Promotio n	Poster Design	E- Comme rce	B2B Marketin g	Digital Marketin g	1] Students should be able to know about concepts of upcoming E- commerce and Digital Marketing.P O3 2] Studen ts should be able to integra te about various applica tions of Digital Busine ss.CO 2





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9		RT M - 167 - OE (P)	Advertisi ng & Sales Promotio n	Sales Inventor y and Merchan dise Manage ment	Data Protecti on Laws of Custom er	Developi ng Individu al Service Opportu nities	Consume rism	1] Students should be able to know about Retail Store Operation. PO P1 2] Studen ts should be able to underst and the Monito ring and Manag ing Store Perfor mance.
1 0		RT M - 101 - MJ M	Organizat ional Behaviou r	Behavio r of people at workpla ce	Change Manage ment	Individu al Process and Behavior	Organizat ional Culture	1) Studen ts should be able to integra te various factors of organiz ational behavi or.





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								2) Students can apply leadership and team building techniques in an organisation. POS6
1 1		RT M - 137 - IKS	Evolution of Retail	History of Retail	Market Environment	Types of retail	Chronology of Retail Development	1] Students should be able to know about Retail History. PSP1 2] Students should be able to understand the Monitoring and Managing Store Performance.
1 2		RT M - 117 - OE (P)	Marketing Management Skills	Rural Marketing	Market Environment	Market Segmentation	Global Marketing	1) Students should be able to integrate comprehensive knowledge of Marketing Management. PO2





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1 3	RT M - 171 - VSC	Fundame ntal of Compute r	Leaders hip	Team Manage ment	MS- Office	AI	1]Students should be known about basics computer Knowledge. 2] Students should be understand about how to implement computer software in Retail Management. PO3
1 4	RT M - 102- MJ M	Basics of Marketin g	Rural marketin g	Digital Marketi ng	Marketin g Mix	E- Marketin g	1] Students should be able to understand about basic principles of Marketing. P O2 2] Students should be know about the relevance of Marketing in Developing Economy.
1 5	RT M - 121 - VSC	Indian Economy	Demand Forecast ing	Demand & Supply Analysi s	Market Analysis	Competit ion	1] Students should be able to integrate knowledge of market and effect on





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								demand and supply of market PO3 2] Students make aware about the market analysis need
16		RT M - 152-MJ M	Marketing Management	Rural Marketing	Market Environment	Market Segmentation	Global Marketing	1) Students should be able to integrate comprehensive knowledge of Marketing Management. PO2

	Programme	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
				Local	National	Regional	Global	
17	B.Voc Retail Management (UG)	UBRM 231	Business Accounting	Bank Reconciliation Statement	GST	RTGS, NEFT	Retailware Software	1] Students should be able to understand Business Accounting Terms. PSO 4





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18		UBRM 232	Personality Development and Team Building	Personality Development Factors	Mass Media	Regional Factors	Cultural Factors	1] Students should be know about basics principles of personality Development. 2] Students should be able to integrate the knowledge of how to Develop Personality and Team Building. PSO6
19		UBRM 2333	Principles of Marketing	Rural marketing	Digital Marketing	Marketing Mix	E-Marketing	1] Students should be able to understand about basic principles of Marketing. PO2 2] Students should be know about the relevance of Marketing in Developing Economy.
20		UBRM 234	Internship	Inventory Management of	Supply Chain Management	Brand Management	Global Marketing	1] Students should be able to know the inventory





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				Merchandise				Management of Merchandise .PO3 2] Students should be understand the Retail Shop Structure.P OS2
2 1		UBRM 235	Retail Store Operation-I	Sales Inventory and Merchandise Management	Data Protection Laws of Customer	Developing Individual Service Opportunities	Consumerism	1] Students should be able to know about Retail Store Operation.P SP1 2] Students should be able to understand the Monitoring and Managing Store Performance .
2 3		UBRM 236	Store Layout and Designs	Store Management	-	-	-	1] Students should be able know about basics of Store LayoutPO1 2] Students should be





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								able to understand the concept of Retail Space Management .PSO1
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	Programe	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
				Local	National	Regional	Global	
22	B.Voc Retail Management (UG)	RM1401	Principles of Finance	Organizational framework of Financial Management	Venture Capital in India	Sources of Finance	International Finance	1) Students should be able to know about Financial PO4 Planning. 2) Students should be able to know about Venture Capital Nature.
24		UBRM242	Basics of Cost Accounting	Marginal Costing	-	-	-	1) Students should be able to integrate





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								the basics of Cost Accounting. PSO 4
25	UBR M243	Negotiation Skills	Physical Appearance	Conflict Resolution	Negotiation Styles	Cross Cultural Teamwork		2) Students should be able to understand the Budget and Budgetary Control and Elements of Cost PSO4
26	UBR M244	Internship	Auditing	Supply Chain Management	Brand Management	Global Marketing		1] Students should be able to know the details of Mall. PO1 2] Students should be understanding the Management, Project Audit and Working team in an organization.
27	UBR M245	Retail Store	Project Management	Networking	Data Protection	Developing Individu		1] Students should know about concepts





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			Operations-II		Techniques	Laws of Customer	al Service Opportunities	of Retail Business. PSO6 2] Students should be understanding Network Techniques.
28	UBR M246	Service Marketing	Microenvironment	Macro Environment	Service Distribution	Global Branding	1] Students should understand different channels of Service Marketing PO1 2] Students should be able to know about Service Marketing in Retail; Sector.	

	Programme	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
				Local	National	Regional	Global	
29	B.Voc Retail Management (UG)	RM1501	Marketing Research	Market Potential	Market Potential	Market Potential	Market Potential	1] Students should be able to understand the process of





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								Marketing Research. 2] Students should be able to acquire knowledge of terms and concepts used in Scientific Business Research.
30		RM1502	Bank Finance	Indian Financial System	Indian Financial System	Indian Financial System	Developing Bank	1] Students should be able to understand the Regulatory Framework in the Indian Financial System.





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								2] Students should be able to integrate the knowledge of various laws related to Banking.
31		RM1503	Human Resource Management for RM	Human Resource Management	Labour laws	Succession planning	International HRM	1] Students should be able to integrate comprehensive knowledge of Human Resource Management
32		RM1504	Internship	Process of Store Operation	Supply Chain Management	Brand Management	Global Marketing	1] Students should be able to integrate knowledge of retail Operations in Practical. PS O1
33		RM1505	Material and Logistics Management	Logistics Management	Logistics Management	Logistics Management	E-tail logistics, Global Sourcing	1] Students should be able to understand theoretical and applied aspects of logistics





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								managemen t. 2] Students will be enabled to effectively monitor and manage logistics. PO 2
		RM15 06	Retail Store Operatio n-III	Setting up Retail Store	Mall Manage ment	Mall Manage ment	-	1] Students should be able to integrate practical experience and exposure about store operations. P SO1

	Progra mme	Cour se Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
				Local	Nation al	Regiona l	Global	
3 4 3 5	B.Voc Retail Manage ment (UG)	RM1 601	Marketing Managem ent	Rural Marketi ng	Market Environ ment	Market Segment ation	Global Marketi ng	1) Students should be able to integrate compreh ensive knowled ge of





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								Marketi ng Manage ment.
3 6		RM1 602	Retail Financial Services	Financia l Services	Financi al Service Sector in India	Case Studies	Global Econom ic sector	1) Students should be able to integrate theoretic al applied aspects of financial Services . 2) Students should be able to know various categories of Financial Services.
3 7		RM1 603	Entreprene rship Developm ent	Local Entrepre neurs	Role of Entrepre neur in Indian Econom y	SWOT Analysis	Export, Global Vision for Entrepre neur	Students should be able to integrate into the foundati on of Entrepre neurship Develop ment. 2) Students should be able





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								to create business plan to enter in Market.
38		RM1 604	Internship	Finance	E-commerce	Marketing Management	Digital Marketing	1] Students should know about Marketing Management and Finance in Practical. 2] Students should understand about Digital Marketing.
39		RM1 605	E-Commerce and Digital Marketing	Poster Design	E-Commerce	B2B Marketing	Digital Marketing	1] Students should be able to know about concepts of upcoming E-commerce and Digital Marketing. 2] Students should be able to integrate about various applications of Digital Business.
40		RM1 606	Retail Store Operation-IV	Distribution Centers in Retail	Data Protection on Laws of Customer	Developing Individual Service Opportunities	E-Commerce integration	1] Students should understand various aspects of retail store operations.

