



Prof. Dr. Avinash S. Jagtap  
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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

E-mail : principal.tccollege@gmail.com

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## 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	UADS11(A)	Defence Mechanism of India		Defense Mechanism of the Indian Armed Forces		Defense Mechanism of the Indian Armed Forces	<p><b>PO3</b> Social competence:</p> <p><b>CO4:</b> Examine the historical context of India's defence mechanisms, including key events and milestones</p>
	UADS121(A)	Defence Mechanism of India	Indian Navy	Indian Missiles Indian Navy	Indian Navy	Indian Missiles	<p><b>CO4:</b> Analyse the coordination</p>





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							between civil and military authorities during emergencies
							CO5: Examine India's maritime security policies and the role of the Indian Navy.
	UADS1 11(B)	Key Concept of National Security	National Power	National Power	National Power	National Power	<b>PO1</b> Research-Related Skills <b>CO5:</b> Students will be able to understand various key concept of national security
	UADS1 21(B)	Key Concept of National Security	Conventional Non-Conventional Threats to India	Conventional Non-Conventional Threats to India	Conventional Non-Conventional Threats to India	Conventional Non-Conventional Threats to India	<b>CO8:</b> Explore the concept of human security and its relationship with





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							national security.
SYBA	UADS231 (A)	Military Geography- I	Role of Geography In War	Role of Geography In War	Role of Geography In War	Role of Geography In War	<b>CO1:</b> Analyze the specific arms and logistics required for effective warfare in different terrains.
	UADS241 (A)	Military Geography- II		Sea Warfare		Sea Warfare	<b>PO4</b> : Disciplinary Knowledge  <b>CO3:</b> Examine the characteristics and roles of the Armored Corps in modern warfare.
	UADS231(B)	Geopolitics-I	Maritime Boundaries and Territorial sea(	Maritime Boundaries and Territorial sea(	Maritime Boundaries and Territorial sea(	Maritime Boundaries and Territorial sea(	<b>PO2</b> Effective Citizenship and Ethics  <b>CO2:</b> Evaluate





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							how Geopolitics influences national security policies and geopolitical strategies.
	UADS 241 (B)	Geopolitics II	Frontier and Boundaries	Frontier and Boundaries	Frontier and Boundaries	Frontier and Boundaries	<p><b>PO2</b> Effective Citizenship and Ethics</p> <p><b>CO1:</b> Understand the concept and role of a buffer and landlocked state in geopolitics.</p>
	UADS 232	International Relations I	Realism Idealism  Marxism	Realism Idealism Marxism	Realism Idealism  Marxism	Realism Idealism  Marxism	<p><b>PO1</b> Research-Related Skill</p> <p><b>CO5:</b> Select methods of analysis appropriate to research in the student's chosen concentration and apply at least one</p>





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							of these methods to a understand question in international relations
UADS 242	International Relations II	Power	Power	Power	Power	Power	<b>PO4</b> Disciplinary Knowledge  <b>CO2:</b> Analyze case studies of successful and unsuccessful diplomatic efforts.
UADS 233	India's Internal Security I	National Security	National Security	National Security	National Security	National Security	<b>PO6</b> Self-directed and Life-long learning  <b>CO1:</b> Define and understand the concept of internal security, with a specific focus on India.
UADS 243	India's Internal Cybercrime	Cybercrime	Cybercrime	Cybercrime	Cybercrime	Cybercrime	<b>PO6</b> Self-directed and





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		Security II					Life-long learning  <b>CO7:</b> Analyze the coordination mechanisms among various security agencies.
<b>TYBA</b>	DEF-3501(A)	India's National Security in 21st Century I	National security	National security	National security	National security	<b>PO6</b> Self-directed and Life-long learning  <b>PO5</b> Personal and professional competence  <b>CO1:</b> Students will get through knowledge of India's internal and





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							external security environment
DEF 3601(A)	India's National Security in 21st Century II		India's nuclear policy				<b>CO2:</b> Look East Policy and Analyze the geopolitical factors that influenced the initiation of the policy.
DEF 3501(B)	War and Contemporary Warfare I	Nuclear Warfare	Nuclear Warfare	Nuclear Warfare	Nuclear Warfare	Nuclear Warfare	<b>CO4:</b> Students will understand how recent changes





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							es 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	Cyber Warfare	<b>CO4:</b> Analyze the impact of technology on military capabilities and strategic considerations.
DEF 3502	International and Regional Organizations I		United Nation			United Nation	<b>CO2:</b> Student will be able to understand the role of United Nations in global peace and security.
DEF 3602	International and Regional	International Regional	International Regional Organization	International Regional	International Regional	International Regional	<b>CO7:</b> This course provides a comprehens







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		Organizations II	Organization		Organization	Organization	ive 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	<b>CO4:</b> Student will be able to explain and analyze the impact of arm race on the nation's economy. <b>CO5:</b> Student will be able 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	War Time Economy	<b>CO2:</b> Identify and understand the characteristics of a war-time economy.





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## ECONOMICS

Programme	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
			Local	Regional	National	Global	
F.Y.B.A. (Sem I) Economics	UAEC 111	Indian Economy Problems and prospectus - I	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.
F.Y.B.Com. (Sem I)	UCBE 111	Micro Economics I	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. PO1 Research-Related Skills:
	UCBF 111	Banking and Finance I	Technology in Banking	Technology in Banking	1.Functions of Banks 2.Methods of Remittances 3.Functions of RBI	Technology in Banking	CO1: To acquaint students with various types & functions of Banks and negotiable instruments and modern technology in banking. PO2 Effective





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							Citizenship and Ethics:
MA I (Sem I) Economics (PG)	PAEC 111	Micro Economics 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	CO1: To appraise students with various concepts of public revenue and expenditure of the government.
	PAEC 112	Public Finance I	Budget Allocation	Financial Regional imbalance	WTO- Important Agreements, Major developments since 1995	WTO- Important Agreements, Major developments since 1995	CO1: To familiarize classical and modern theories of international trade.
	PAEC 113	International Economics I	Debate on Inclusive Growth	Debate on Inclusive Growth	India's Experience in Planning	Comparison of Indian Economy with the world in major economic Indexes	CO1: To understand the undercurrents behind the policy making and its implementation.
	PAEC 114	Indian Economy Policy I	1.Functions of Banks 2.Methods of Remittances	Application of credit flow	1.Major issues of Development in India 2.Measures for	Modern banking	CO2: To appraise students with various concepts of Banking PO3 Social competence:





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			3.Functions of RBI		Populations Control	
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			Local	Regional	National	Global	
F.Y.B.A. (Sem II) Economics	UAEC 121	Indian Economy Problems and prospectus - II	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. PO2 Effective Citizenship and Ethics:
F.Y.B.Com (Sem II)	UCBE 121	Micro Economics II	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. PO1 Research-Related Skills:
	UCBF 121	Banking and Finance II	Technology in Banking	Technology in Banking	1.Functions of Banks 2.Methods of	Technology in Banking	CO1: To acquaint students with various types & functions of Banks and





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					Remittances 3.Functions of RBI		negotiable instruments and modern technology in banking. PO2 Effective Citizenship and Ethics:
MA I (Sem II) Economics (PG)	PAEC 121	Micro Economics II	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	CO1: To appraise students with various concepts of public revenue and expenditure of the government. PO7 Environment and Sustainability: PO8 Critical Thinking and Problem solving:
	PAEC 122	Public Finance II	Budget Allocation	Financial Regional imbalance	WTO- Important Agreements, Major developments since 1995	WTO- Important Agreements, Major developments since 1995	CO1: To familiarize classical and modern theories of international trade. PO1 Research-Related Skills:





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	PAEC 123	International Economics II	Debate on Inclusive Growth	Debate on Inclusive Growth	India's Experience in Planning	Comparison of Indian Economy with the world in major economic Indexes	CO1: To understand the undercurrents behind the policy making and its implementation. PO6 Self-directed and Life-long learning: PO4: Disciplinary Knowledge: PO5 Personal and professional
	PAEC 124	Indian Economy Policy II	1.Functions of Banks 2.Methods of Remittances 3.Functions of RBI	Application of credit flow	1.Major issues of Development in India 2.Measures for Population Control	Modern banking	CO2: To appraise students with various concepts of Banking PO3 Social competence:





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			Local	Regional	National	Global	
S.Y.B. A. Econo mics	ECOGE N2301	Bankin g & Financ e	2.2 Methods of Remittan ces – Demand Draft, Bankers Cheque, Mail Transfer, Telegrap hic Transfer, Electroni c Funds Transfer.	4.1 Welfare Economic s 3.1 Meaning and Definition. 3.2 Pigou's Welfare Economic s 3.3 Social Welfare Function. 3.4 Condition s of Pareto Optimality	1.2 Evolution of Banking in India 1.3 Structure of Indian Banking System 2.5 Nationaliza tion of Commercia l Banks – Achieveme nt and Failures. 2.6 Banking Reforms after 1991	3.4 Modern Technology – Concept of ATM, Credit Card, Debit Card, Tele Banking, Net Banking & Core Banking.	<b>CO6.</b> Students will be able to Analyze the performan ce of Non- Banking financial institution s and the measures for NBFC given by RBI. <b>CO7.</b> Understan d and remember the basics of Indian Financial System with the help of recent changes being adopted. PO6 Self- directed and Life- long learning:





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							PO7 Environm ent and Sustainabi lity: PO8 Critical Thinking and Problem solving:
	ECOSP L2302	Micro Econo mics I	3.7 Practical and Applicati ons - Case studies on productio n functions and costs of single product and multi product firms.	1.3 Tools of Economic Analysis – Functional relationshi ps, Schedules, Graphs & Equations.		3.2 law of Variable Proportions - The Three Stages. 3.3 Law of returns to scale - The Three Stages.	CO1. Understan d the basics of national income accountin g. CO2. Understa nd the causes and consequ nces of business cycles. int ere st rat es.
	ECOSP L2303	Macro Econo mics I		4.1 Barter Syste m and Evolut	2.1 History and institutiona l set up of	3.4 Keynsian Theory of	CO7. Apply basic internatio







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				ion and Types of Money	National Income accounting in India	Employment	nal trade and finance concepts to global pricing issues, including working with PO1 Research- Related Skills: PO2 Effective Citizenshi p and Ethics: PO3 Social competen ce: PO4 Disciplina ry Knowledg e: PO5 Personal and profession al
	ECOGE N2401	Cooper ation	2.2 Problems of Co- operative Agricultu	2.1 Role of Co- operative agricultura l	1.1 History of Co- operative movement in India	1.3 Principles of Co- operation	<b>CO 4 Global Context:</b> By analyzing





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			<p>ral Marketin g. 2.3 Measures to solve the problems of Co- operative agricultur al Marketin g. 4.4 Housing Co- operative s - Progress, Problems and measures.</p>	<p>Marketing . 2.2 Problems of Co- operative Agricultur al Marketing . 2.3 Measures to solve the problems of Co- operative agricultura l Marketing . 2.4 State Trading Co- operation. 3.4 NABARD - Objectives , Functions &amp; working.</p>			<p>empirical models, students will understand how countries like Japan and China have shaped their economic trajectories. developme nt. PO2 Effective Citizenshi p and Ethics: PO3 Social competen ce: PO4 Disciplina ry Knowledg e: PO5 Personal and profession al</p>
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ECOSP L2402	Micro Econo mics II	1.7 Practical and Applicati ons: Case studies on product differenti ation,  pricing policy by firm	1.2 Monopoly Market - Concept, Characteri stics and short and long run  Equilibriu m, Price Discrimin ation – Concept and Types. 1.3 Duopoly – Concept, Characteri stics 1.4 Oligopoly – Concept, Characteri stics. 1.5 Monop olistic Competiti on - Concept, Characteri stics, short & long run  Equilibriu m, Selling	1.2 Monopoly Market - Concept, Characteri stics and short and long run  Equilibriu m, Price Discriminat ion – Concept and Types. 1.3 Duopoly – Concept, Characteri stics 1.4 Oligopoly – Concept, Characteri stics. 1.5 Monopo listic Competitio n - Concept, Characteri stics, short & long run  Equilibriu m, Selling cost- concept.	4.1 Welfare Economics 3.1 Meaning and Definition. 3.2 Pigou's Welfare Economics 3.3 Social Welfare Function. 3.4 Conditions of Pareto Optimality	CO4. Understand factors that contribute to and detract from long- term economic growth. CO5. Apply economic reasoning to understand the operation of an economy. CO6. Understan d the interaction between the domestic economy and the rest of the world. PO1 Research- Related Skills:
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				cost- concept. 1.6 Perfect Competiti on – Concept, Characteri stics, Price determinat ion in short	1.6 Perfect Competitio n – Concept, Characteris tics, Price determinati on in short		
	ECOSP L2403	Macro Econo mics II		2.1 Meaning and Types of Inflation 2.2 Causes and Effects of Inflation	3.1 Meaning and Features of Trade Cycles 3.2 Phases of Trade Cycles 3.3 Policy and Control of Trade Cycles-	4.3 Principles and Effects of Taxation	CO3. Understan d the roles of fiscal and monetary policy in business cycle. PO2 Effective Citizenshi p and Ethics: PO3 Social competen ce: PO4 Disciplina ry Knowledg e: PO5 Personal and





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							profession al
T.Y.B. A. Econo mics	ECOGE N3501	Econo. Dev.t and Plan. I	1.Major issues of Develop ment in India 2.Measur es for Populatio n Control	1.Major issues of Developm ent in India 2.Measure s for Population Control	1. Major issues of Developme nt in India 2.Measures for Population Control	1.Major issues of Developme nt in India 2.Measures for Population Control	CO 1: Acq uai ntin g stud ents wit h the pro ble ms of the eco no my. PO2 Effective Citizenshi p and Ethics: PO3 Social competen ce:
	ECOGE N3502	Interna tional Econo mics I	Technolo gy in Banking	Technolog y in Banking	1.Functions of Banks 2.Methods of Remittance s	Technology in Banking	CO1: To acquaint students with various types & functions





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					3.Functions of RBI		of Banks and negotiable instruments and modern technology in banking. PO2 Effective Citizenship and Ethics:
ECOGE N3503	Elemen. Quan. Tech. que I	1.Basic Economic Problems 2. Revenue and Cost Concepts	1.Major issues of Development in India 2.Measurements for Population Control	1. Major issues of Development in India 2.Measures for Population Control	Technology in Banking	CO2: To expose Students of Arts to basic Micro Economic concepts and inculcate an analytical approach to the subject matter.	
ECOGE N3501	Econo. Dev.t and Plan. II	Technology in Banking	Technology in Banking	1.Functions of Banks 2.Methods of Remittances	Technology in Banking	PO1 Research-Related Skills: CO1: To acquaint students	





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					3.Functions of RBI		with various types & functions of Banks and negotiable instruments and modern technology in banking.
ECOGE N3502	International Economics II	1.Major issues of Development in India 2.Measures for Population Control	1.Major issues of Development in India 2.Measure 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	PO2 Effective Citizenship and Ethics: PO3 Social competence: CO1.Analytical Skills: Develop analytical skills to assess the economic conditions of different countries or regions and identify factors influencing





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							their developmen
	ECOGE N3503	Eleme. Quan. Tech. que II	1.Major issues of Develop ment in India 2.Measur es for Populatio n Control	1.Major issues of Developm ent in India 2.Measure s for Population Control	1. Major issues of Developme nt in India 2.Measures for Population Control	Role of Governmen t in Organized Society	PO7 Environm ent and Sustainabi lity: PO8 Critical Thinking and Problem solving: CO1: To acquaint students with various types & functions of Banks and negotiable instrument s and modern technolog y in banking.
SYBcom	COMB E2303	Macro Econo mics I			1.1 Meaning, Nature and Scope of Macro Economics	4.1 Definitions and Evolution of Money	CO3. Understan d the roles of fiscal and monetary policy in







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					1.2 Significance and Limitations of Macro Economics 2.1 Various Concepts of National Income	4.2 Functions of Money Demand for Money 4.3 Supply of Money and Multiple Credit Creation by Commercial Banks	fighting recessions and inflation.
	COMB F2306	Banking and Fin. I		2.1 Micro finance. 2.2 Payment banks. 2.3 Small finance Bank.	1.1 Public sectors Banks (SBI & Nationalized Banks) Background, Mergers Banks. 1.2 Private Sectors Banks (Old & New) - Classification & Features. 1.3 Cooperative Banks (SCB, DCCB, PACS) - Features.	3.1 NPA-Concept, Classification and Criteria. 3.2 Identification and Causes of NPA. 3.3 Impact of NPA. 3.4 Management of NPA.	CO3. Students will be able to understand the Structure of Indian Banking and financial market as well PO2 Effective Citizenship and Ethics: PO3 Social competence: PO4 Discipline





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					1.4 Foreign banks in India- Functions. 4.3 Functions of RBI		ry Knowledge: PO5 Personal and professional
	COMB E2403	Macro Economics II			2.1 Meaning and Types of Inflation 2.2 Causes and Effects of Inflation 4.3 Types of Taxation 4.4 Principles and Effects of Taxation	1.1 Meaning and Concept of Value of Money	<b>CO5.</b> Develop their understanding and expertise in various matters relating to operations of a commercial bank.
	COMB F2406	Banking and Fin. II		1.1 Financial Inclusion- Concept and Need. 1.2 Various Initiatives for financial inclusion. 1.3 Role of Financial Inclusion	2.2 Structure of Development Banks in India. 2.3 Role of development Banks in India. 2.4 Progress and Limitations of Developme	4.1 Basel Norms –II and III	<b>CO1.</b> The main outcome of this course is acquaint students with various aspects of financial system, role, structure, performance and the





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				1.4 Challenge s and Opportuni ties of Financial Inclusion	nt Banks in India.		current problems faced by the banking sector in India PO2 Effective Citizenshi p and Ethics: PO3 Social competen ce: PO4 Disciplina ry Knowledg e: PO5 Personal and profession al
T.Y. B Com	COMIE 3503	Internat ional. Eco. I	Role of Governm ent in Organize d Society	Role of Governme nt in Organized Society	1.Role of Governmen t in Organized Society 2. Issues in India's Federal finance	Role of Governmen t in Organized Society	CO1: To appraise students with various concepts of public revenue and expenditur e of the governme





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							nt. PO2 Effective Citizenshi p and Ethics:
COMB F3505	Bankin g & Fin. III	1.Major issues of Develop ment in India 2.Measur es for Populatio n Control	1. Major issues of Developm ent in India 2.Measure s for Population Control	WTO- Important Agreement s, Major developme nts since 1995	WTO- Important Agreement s, Major developme nts since 1995	CO1: To familiariz e classical and modern theories of internatio nal trade. PO2 Effective Citizenshi p and Ethics:	
COMB F3506	Bankin g & Fin. IV	Debate on Inclusive Growth	Debate on Inclusive Growth	India's Experience in Planning	Compariso n of Indian Economy with the world in major economic Indexes	CO1: To understan d the undercurr ents behind the policy making and its implement ation. PO4 Disciplina ry Knowledg e: PO5 Personal	





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							and professional
COMIE 3603	International Eco. II	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	1. Major issues of Development in India 2. Measures for Population Control	PO4 Disciplinary Knowledge: PO5 Personal and professional CO1: To understand the undercurrents behind the policy making and its implementation.
COMB F3605	Banking & Fin. V	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	1. Major issues of Development in India 2. Measures for Population Control	PO4 Disciplinary Knowledge: PO5 Personal and professional CO1: To understand the undercurr





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							ents behind the policy making and its implementation.
	COMB F3606	Banking & Fin. VI	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	PO4 Disciplinary Knowledge: PO5 Personal and professional competence: CO1: To understand the undercurrents behind the policy making and its implementation.
MA II Economics (PG)	ECO5301	Macro Economics I			1.2 Gross Domestic Product, Gross National Product, Net Domestic		PO4 Disciplinary Knowledge: PO5 Personal and





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					Product, Net National Product 1.5. National Accounts Statistics-system 2: Aggregate Supply & Aggregate Demand 3: IS-LM Model 4.3 The Real Business cycle Theory 4.4 The Rational expectations Revolution New Classical Macroeconomics: Perfect Information Rational Expectations		professional competence: CO1: To understand the undercurrents behind the policy making and its implementation.
	ECO5302	Economic	1.1 Economic	2.2 Obstacles	1.3 Characteristic	.4 Measurement of	CO 3 Endogenous





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		Growth & Development I	Growth and Development 1.2 Economic Growth and Income Distribution-Kuznets Hypothesis	to Economic Development-Vicious Circle of Poverty, Various Constraints	s of an Underdeveloped economy 4.4 The Doctrine of Balanced and Unbalanced Growth	Development- Physical Quality of Life Index; Human Development Index, GHDI, Gross National Happiness and Indices 1.5 Sustainable Development- MDGs and SDGs	s Growth Understanding: Students will grasp the intricacies of the New Endogenous Growth Theory, distinguishing between the models proposed by Arrow, Lucas, and Romar. PO2 Effective Citizenship and Ethics: PO3 Social competence: PO4 Disciplinary Knowledge: PO5 Personal and professional
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ECO5303	Agribusiness Eco I	1.2 Role of agriculture in Economic Development, 1.3 Changing phase of agriculture in economic development,	1.4 Agriculture as an industry, Complementary between agriculture and Industry.		4.1 Introduction: Lewis theory of labor 4.2 Mellor's and Boserup's Modl of Agricultural Development, Schultz's transformation of traditional agriculture.	
ECO5304	Research Methodology	3.1 Classification and Tabulation. 3.2 Graphs and Diagrams 3.3 Measures of Central Tendencies. Mean, median mode 3.4 Dispersion			4.1 Global Information - Internet surfing, downloading, blogs, mails. 4.2 Use of Word tools 4.3 Presentation - ( Drawing on Slide ) Power Point 4.4 Computerized data processing-	<b>CO 3</b> <b>Market Analysis:</b> The course should equip students with the skills to analyze agricultural markets, including factors affecting price volatility, market trends, and the impacts





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			n & Correlati on. 3.5 Hypothes is Testing Chi Square test			Excel, SPSS. 4.5 Stages of report writing.	of governmen t policies and internation al trade. <b>CO 4</b> <b>Agribusin ess Value Chain:</b> Students should gain insight into the various stages of the agribusine ss value chain, including productio n, processing , marketing, and distributio n. They should understan d how different entities in the value chain interact
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							and the economic implications of these interactions.
ECO5401	Macro Economics II		1.1 Definition of Money, functions of money, concept of liquidity. Measures of Money Supply 1.2 Liquidity measures according to Reddy Committee Report. 1.3 The debate relating to the definition of money	3.3 Money Multiplier Process, Some simplifying assumptions, Determinants of Money Multiplier 3.4 Autonomy of High powered money, Reserve Bank's analysis of Money Supply. 3.5 Definition sources of Inflation-Demand Pull Inflation-cost push inflation 3.6 Unemployment and			PO4 Disciplinary Knowledge: PO5 Personal and professional competence: CO1: To understand the undercurrents behind the policy making and its implementation.





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					Inflation-Phillips Curve		
	ECO5402	Economic Growth & Development II		2.3 Dualistic Theories- Social, Technological and Financial Dualism 2.4 Dependency Theory of Underdevelopment 4.1 Changes in the Role of Agriculture during the process of Economic Development 4.2 Population Growth and Economic Development			<b>CO 4</b> <b>Agribusiness Value Chain:</b> Students should gain insight into the various stages of the agribusiness value chain, including production, processing, marketing, and distribution. They should understand how different entities in the value chain interact and the economic implicatio





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							ns of these interaction s. PO2 Effective Citizenship and Ethics:
	ECO5403	Agribusiness Eco II			1.1 Introduction: Problems of agriculture finance, 1.2 Measures taken to improve credit flow of agriculture finance 1.3 Sources of agriculture finance, Commercial Bank, 1.4 Regional Rural Bank, NABARD, Lead Bank Scheme, Cooperative Credit	4.1 Introduction, Market Access, Domestic 4.2 Support, Export Subsidies, 4.3 Export and Import Performance of Indian Agriculture , 4.4 Economic Liberalization and its impact on agriculture, WTO ministerial meeting and agriculture	<b>CO 1 Understanding Agricultural Economics:</b> Students should develop a strong understanding of the fundamental principles and concepts of agricultural economics , including supply and demand, price determination, market structures,





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					Structure and RBI. 3.1 Introduction, Causes and Effects of fluctuations in Agriculture prices 3.2 Agriculture price policy in India – need, objectives, and development.	and the role of agriculture in the overall economy. <b>2 CO 3 Market Analysis:</b> The course should equip students with the skills to analyze agricultural markets, including factors affecting price volatility, market trends, and the impacts of government policies and international trade. processing, marketing, in agribusiness, such as
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							the economic implications of sustainable farming practices and the use of resources.
ECO5404	Modern Banking	1.1 Nature, structure, Functions and role of financial system in economic development.	1.4 Balance sheet of a commercial bank.	2.6 Reserve Bank of India 2.3 Changing trends in banking sector since 1991. 2.5 Foreign banks in India and their impact on Indian banking sector 3.1 Meaning, Types and features of Non-banking Financial	4.3 Forms of foreign capital – Foreign Direct Investment [FDI], Pros and cons for FDI in India, 4.4 Regulation of foreign investments – Foreign Investments Promotion Board 4.5 Working and role of IMF, IBRD, IDA, IFC	<b>CO2.</b> They will be able to describe fundamental concepts behind modern e-banking/mobile banking technologies.	





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					Institutions in India- 3.2 Role of the Non-banking Financial Institutions in India- 3.4 Functions of Non-banking Financial Institutions in India		
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## English

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 [semester-1]	UAEN 111	Compulsory English	Grammar	Grammar	Grammar	Grammar	CO1) Students learn grammar effectively
	Short Story			The Child - Premchand	The Child - Premchand		PO1) Students are developed for an integrated view about language and literature
F.Y.B.COM [semester-1]	UCFE111 Short Story		The Secret of Work-Swami Vivekanda	The Secret of Work-Swami Vivekanda			PO2) Equipped with literary sensibilities, the students will stay ahead in the s





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							Competitions they will face.
	Poetry		Sonnet 116- William Shakespeare	Sonnet 116- William Shakespeare		Sonnet 116- William Shakespeare	PO3) The students will get genuine command over the English language, which can be used by them for communications at all levels.
S.Y.B.A [semester-3]	ENG CO 2301 Poetry	Compulsory English			<b>The quality of mercy – William Shakespeare</b>	<b>The quality of mercy – William Shakespeare</b>	CO2) Student understands the literary merit, beauty and creative use of language. they get acquainted with the literary genres of prose and poetry
			<b>Introduction by</b>	<b>Introduction by</b>	<b>Introduction by</b>		





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			<b>Kamla Das</b>	<b>Kamla Das</b>	<b>Kamla Das</b>		PO4) Student understands the literary merit, beauty and creative use of language. they get acquainted with the literary genres of prose and poetry
<b>M.A. -I</b>	PAEN 111	English Literature from 1550-1798			<b>The Spanish Tragedy by Thomas Kyd</b>	<b>The Spanish Tragedy by Thomas Kyd</b>	PSO1) The students get familiar with the major movements and figures of English Literature
					<b>Othello by William Shakespeare</b>	<b>Othello by William Shakespeare</b>	CO3) The students develop the literary sensibility and emotional response to the literary text and the





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							learn to appreciate the literary text.
M.A. I	PAEN 112	English Literature from 1798 to 2000			<b>Waiting for Godot</b>	<b>Waiting for Godot</b>	PSO2) To instill values and develop human concern in students through exposure to literary texts.
						<b>Lord of the Flies</b>	CO4) To expose students to the artistic and innovative use of language employed by the writers.
M.A. I	PAEN 111	Contemporary Studies in English Language		<b>Phonology</b>	<b>Phonology</b>	<b>Phonology</b>	CO5) The learn theoretical perspectives and also learn how to apply the acquired linguistic skills in





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							real life situations
					<b>Morphology</b>	<b>Morphology</b>	PSO3) Students understand the basic tools essential for systematic study of language.
M.A. I	PAEN 114	Literary Criticism and Theory		<b>Poetics by Aristotle</b>	<b>Poetics by Aristotle</b>	<b>Poetics by Aristotle</b>	CO6) To enable the students think critical about the literary trends in English literature
					<b>Tradition and the Individual Talent by T.S. Eliot</b>	<b>Tradition and the Individual Talent by T.S. Eliot</b>	CO7) To develop students analytical skills in interpreting literary texts.
M.A. II	ENG 5402	English Language		<b>Theories of</b>	<b>Theories of</b>	<b>Theories of</b>	





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		and Literature Teaching		Language Learning	Language Learning	Language Learning	CO8)The students become aware in both the artistry and utility of the English language through the study of literature and basic language skills
						<b>English in India</b>	CO9)The students become competent in literary and linguistic skills.
M.A. II	ENG 5403	Drama in English			<b>Romeo and Juliet by Shakespeare</b>	<b>Romeo and Juliet by Shakespeare</b>	CO10) They learn the dramatic structure, literary devices and analyze its effect on the readers
					<b>Dr. Faustus</b>	<b>Dr. Faustus</b>	PO5)





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2019 - 2024

							It enables students analyze literature and drama by using appropriate theoretical, historical and cultural apparatus.
M.A. II	ENG 5403	American Literature			<b>Slave Narratives</b>	<b>Slave Narratives</b>	PO6) To introduce students to slave narratives in American Literature
					<b>The Turn of the Screw</b>	<b>The Turn of the Screw</b>	PO7) To enhance literary taste among the learners.





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## GEOGRAPHY

Programme	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
			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 different policies to control population explosion.
SYBA	GEO2 301	Environment Geography- I	Ecosystem, Pollution	Ecosystem, Pollution	Ecosystem, Pollution	Ecosystem, Pollution	CO-1 Students should be able







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							to integrate various factors of Environment and dynamic aspect of Environmental geography.
	GEO2 302	Geography of Maharashtra	Flood and drought prone areas	----	Flood and drought prone areas	---	CO-2 Students make aware about the problems of environment pollution.
							CO-1 Students will be able to understand the





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							causes and impact of the flood and drought t. CO-2 Students will learn the strategies to cope with these disasters.
	GEO2 303	Practical Geography		Projection		Projection	CO-1 Students can able to identify any map scale and projection. They can also know which projection is suitable for given region
	GEO2 401	Environment Geography- I	Environmental Problems and Planning	Environmental Problems and Planning	Environmental Problems and Planning	Environmental Problems and Planning	CO-1 Students aware about Environment





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							issues.
	GEO2 403	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	GEO3 501	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
	GEO3 603	Practical in statistical techniques	Data collection and analysis	Data collection and analysis	Data collection and analysis	Data collection and analysis	CO-1 Develop skills by problem- solving, field and/or primary and





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							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 the 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





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							understood 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





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							forecast weather conditions at local or regional level.
GEO 4204	Geography of Disaster Management	Mitigation of Disaster	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	Advance surveying Techniques	CO-1. Students will able to carry out the survey for local, regional and national level administrative authorities for different purpose like planning of town,





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							construction of roads, bridge etc.
	GEO4214	Practical of Statistical Techniques for Geography	Correlation, Inferential Statistics	Correlation, Inferential Statistics			CO-1 Students are able to apply various descriptive and inferential techniques on geographical data. CO-2. Students will enable to correlate different geographical data.
MA I Geography (PG)	GEO5314	Watershed management	Watershed Development and soil conservation and water conservation techniques	Watershed Development and soil conservation and water conservation techniques	Watershed Development and soil conservation and water conservation techniques	Watershed Development and soil conservation and water conservation techniques	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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2019 - 2024

## HINDI

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.A. Hindi	FYBA 1) UNHN 111 / UNHN 121	1)सामान्य हिंदी	स्थानीय प्रासंगिकता: प्रेमचंद की "ईदगाह" कहानी और 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):







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							CO1) राष्ट्रीय ऐक्य, सामाजिक उत्तरदायित्व, वैज्ञानिकता आदि मूल्यों के प्रति छात्रों का ध्यान आकर्षित करना।
B.Com Hindi	FYBCo m 2) UCHN 111 (C) / UNHN 121 (C)	सामान्य हिंदी	जंगल का दाह - स्वयंप्रकाश (कहानी)	प्रेम की बिरादरी (व्यंग्य)- हरीशंकर परसाई (कहानी) स्वदेश के प्रति - सुभद्राकुमारी चौहान (कविता)	प्रेम की बिरादरी (व्यंग्य)- हरीशंकर परसाई (कहानी) स्वदेश के प्रति - सुभद्राकुमारी चौहान (कविता)	प्रेम की बिरादरी (व्यंग्य)- हरीशंकर परसाई (कहानी) स्वदेश के प्रति - सुभद्राकुमारी चौहान (कविता)	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





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							प्रति प्रतिबद्ध होने की क्षमता। पाठ्यक्रम परिणाम (COs): CO1) हिंदी के गद्य एवं पद्य के प्रतिनिधि रचनाकारों का परिचय देना।
B.A. Hindi	SYBA 1) HIN 2301/ 2401	सामान्य हिंदी	खेल (कहानी) - जैनेंद्र कुमार गाँव के लड़के (कविता)- सुमित्रानंदन पंत। विज्ञापन लेखन, वृत्तांत लेखन, साक्षात्कार	छावनी में बेघर (कहानी) - अल्पना मिश्र गाँव के लड़के (कविता)- सुमित्रानंदन पंत। विज्ञापन लेखन, वृत्तांत लेखन, साक्षात्कार	उसने कहा था (कहानी)- चंद्रधर शर्मा गुलेरी गाँव के लड़के (कविता)- सुमित्रानंदन पंत। विज्ञापन लेखन, वृत्तांत लेखन, साक्षात्कार	उसने कहा था (कहानी)- चंद्रधर शर्मा गुलेरी गाँव के लड़के (कविता)- सुमित्रानंदन पंत। विज्ञापन लेखन, वृत्तांत लेखन, 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 व्यक्त करें। वास्तविक और आभासी मीडिया में खुद को प्रभावी ढंग से अभिव्यक्त करने के लिए भाषाई





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							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/साक्षात्कार, रिपोर्ट लेखन आदि हिंदी भाषा के व्यावहारिक क्षेत्रों से परिचित कराना।
B.A. Hindi	2) HIN 2302/ 2402	काव्यशास्त्र	काव्य की परिभाषा, काव्य के तत्व, काव्य हेतु तथा	काव्य की परिभाषा, काव्य के तत्व, काव्य हेतु तथा	काव्य की परिभाषा, काव्य के तत्व, काव्य हेतु तथा	काव्य की परिभाषा, काव्य के तत्व, काव्य हेतु तथा	कार्यक्रम के परिणाम (POs): - PO8 :- आलोचनात्मक सोच और समस्या





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Cycle IV

2019 - 2024

			काव्य के प्रयोजन	काव्य के प्रयोजन	काव्य के प्रयोजन	काव्य के प्रयोजन	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
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Cycle IV

2019 - 2024

							प्रयोजनों का ज्ञान कराना।
B.A. Hindi	3) HIN 2303/ 2403	उपन्यास, नाटक तथा मध्ययुगी न काव्य	एक पत्नी के नोट्स - ममता कालिया (उपन्यास ) महाभोज - मन्त्रू भंडारी (नाटक)	एक पत्नी के नोट्स - ममता कालिया (उपन्यास ) महाभोज - मन्त्रू भंडारी (नाटक)	कबीर के दोहे सूरदास के पद रहीम के दोहे बिहारी के दोहे	एक पत्नी के नोट्स - ममता कालिया (उपन्यास) महाभोज - मन्त्रू भंडारी (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





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Cycle IV

2019 - 2024

							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 (आत्मक थांश) साए में धूप (गज़ल) - दुष्यंतकु मार	सृजन संदर्भ और मैं (आत्मक थांश) साए में धूप (गज़ल) - दुष्यंतकु मार	सृजन संदर्भ और मैं (आत्मक थांश) साए में धूप (गज़ल) - दुष्यंतकु मार	सृजन संदर्भ और मैं (आत्मकथां श) साए में धूप (गज़ल) - दुष्यंतकुमा र	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. छात्र काव्य के





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Cycle IV

2019 - 2024

							माध्यम से मानवीय मूल्यों को आत्मसात करेंगे।
B.A. Hindi	TYBA 2) HIN 3502/ 3602	हिंदी साहित्य का इतिहास (S-3)	भक्तिकाल	भक्तिकाल ल आधुनिक काल	भक्तिकाल ल 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।





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Cycle IV

2019 - 2024

B.A. Hindi	TYBA 3) HIN 3503/ 3603	भाषा विज्ञान (S-4)	भाषा की परिभाषाएं , स्वरूप, हिंदी की विविध बोलियाँ	भाषा की परिभाषाएं , स्वरूप, भाषा की विशेषताएं , भाषा के भेद	भाषा की परिभाषाएं , स्वरूप, भाषा की विशेषताएं , भाषा के भेद	भाषा की परिभाषाएं, स्वरूप, हिंदी की विविध बोलियाँ	कार्यक्रम के परिणाम (POs): - PO4 :- अनुशासनात्म क 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	प्राचीन तथा	अमीर खुसरो की	अमीर खुसरो का	जायसी का	जायसी का पद्मावत	कार्यक्रम के परिणाम (POs): -







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Cycle IV

2019 - 2024

PAHN 111/ 121	मध्ययुगी न काव्य / मध्ययुगी न काव्य	पहेलियों / रहीम के दोहे	खड़ीबोली हिंदी के विकास में योगदान / भूषण के काव्य में राष्ट्रीय चेतना	पद्मावत महाकाव्य / रहीम के काव्य नीति	महाकाव्य / रहीम के काव्य नीति	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/उचि त प्रश्न पूछने के लिए पूछताछ की भावना और क्षमता प्रदर्शित करें, किसी अनुसंधान परियोजना के परिणामों की योजना बनाने, निष्पादित
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2019 - 2024

							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 PAHN 112/122	आधुनिक हिंदी कथा साहित्य	हिंदी की श्रेष्ठ कहानियाँ - सिक्का बदल गया	उपन्यास - 'अकाल में उत्सव': पंकज सुबीर कहानी - सिक्का	उपन्यास - 'अकाल में उत्सव': पंकज सुबीर कहानी - सिक्का	उपन्यास - 'अकाल में उत्सव': पंकज सुबीर कहानी - सिक्का	कार्यक्रम के परिणाम (POs): - PO3:- सामाजिक क्षमता: व्यक्तिगत और व्यावसायिक





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Cycle IV

2019 - 2024

			- कृष्णा सोबती नाटक : 'फन्दी' - शंकर शेष	बदल गया - कृष्णा सोबती / नाटक : 'फन्दी' - शंकर शेष	बदल गया - कृष्णा सोबती नाटक : 'फन्दी' - शंकर शेष	बदल गया - कृष्णा सोबती नाटक : 'फन्दी' - शंकर शेष	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) गद्य की प्रमुख विधाओं के तात्विक स्वरूप का परिचय देना। CO2) रचना के आस्वादन एवं समीक्षण की क्षमता
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Cycle IV

2019 - 2024

							विकसित करना।
M.A. Hindi	MA-I PAHN 113/ 123	भारतीय / पाश्चात्य साहित्य शास्त्र	रस सिद्धांत, अलंकार सिद्धांत, रीति सिद्धांत, ध्वनि सिद्धांत	रस सिद्धांत, अलंकार सिद्धांत, रीति सिद्धांत, ध्वनि सिद्धांत	रस सिद्धांत, अलंकार सिद्धांत, रीति सिद्धांत, ध्वनि सिद्धांत	अनुकरण सिद्धांत विरेचन सिद्धांत उदात्त सिद्धांत आई. ए. रिचर्डस् 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।





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2019 - 2024

							पाठ्यक्रम परिणाम (COs): - CO1) भारतीय तथा पाश्चात्य साहित्यशास्त्र के सिद्धांतों का ज्ञान कराना। CO2) साहित्यशास्त्रीय अध्ययन के माध्यम से छात्रों में समीक्षात्मक दृष्टि विकसित करना।
M.A. Hindi	MA-I PAHN 114/124	विशेष स्तर: विशेष साहित्यकार: कबीर / विशेष विधा : हिंदी उपन्यास	कबीर के दोहे तथा पद उपन्यास - मुक्तिपर्व - मोहनदास नैमिशराय फाँस - संजीव त्यागपत्र - जैनेंद्रकुमार	कबीर के दोहे तथा पद उपन्यास - मुक्तिपर्व - मोहनदास नैमिशराय फाँस - संजीव त्यागपत्र - जैनेंद्रकुमार	कबीर के दोहे तथा पद उपन्यास - मुक्तिपर्व - मोहनदास नैमिशराय फाँस - संजीव त्यागपत्र - जैनेंद्रकुमार	कबीर के दोहे तथा पद 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





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Cycle IV

2019 - 2024

							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-II 1) HIN 5301 / 5401	आधुनिक काव्य 1 / 2	गोपा गौतम: जगदीश गुप्त (खंडकाव्य) विशेष कवि कुंवर नारायण	कामायनी - जयशंकर प्रसाद (महाकाव्य) गोपा गौतम: जगदीश गुप्त	गोपा गौतम: जगदीश गुप्त (खंडकाव्य) विशेष कवि कुंवर नारायण	कामायनी- जयशंकर प्रसाद (महाकाव्य) गोपा गौतम: जगदीश गुप्त	कार्यक्रम के परिणाम (POs): - PO8 :- आलोचनात्मक सोच और समस्या समाधान: आलोचनात्मक सोच के





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2019 - 2024

			की कविताएँ	(खंडकाव्य)	की कविताएँ	(खंडकाव्य)	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 2) HIN 5302 / 5402	भाषा विज्ञान / हिंदी भाषा का ऐतिहासि	भाषा की परिभाषा, स्वरूप, हिंदी भाषा का उद्भव एवं	स्वन विज्ञान वाक्य विज्ञान अर्थ विज्ञान,	हिंदी बोलियों का वर्गीकरण तथा क्षेत्र-	भाषा की परिभाषा, स्वरूप, हिंदी भाषा का उद्भव एवं विकास	कार्यक्रम के परिणाम (POs): - PO4 :- अनुशासनात्मक ज्ञान :





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		क विकास	विकास हिंदी का व्याकरण क स्वरूप और विकास		हिंदी का व्याकरण क स्वरूप और विकास	हिंदी का व्याकरण क स्वरूप और विकास	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-II 3) HIN 5303 / 5403	हिंदी साहित्य का इतिहास	आदिकाल भक्तिका ल	भक्तिका ल आधुनिक काल	भक्तिका ल आधुनिक काल	भक्तिकाल आधुनिक काल	कार्यक्रम के परिणाम (POs): - PO6 :- स्व- निर्देशित और जीवन भर सीखना: सामाजिक-







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							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।
M.A. Hindi	MA-II 4) HIN 5304 / 5404	वैकल्पिक: आधुनिक हिंदी आलोचना / वैकल्पिक: लोकसाहित्य	आलोचना - स्वरूप, उद्देश्य, लोकगीत: परिभाषाएँ, विशेषताएँ महाराष्ट्र का लोकनाट्य-तमाशा, गोंधळ	आलोचना और अनुसंधान, आलोचक के गुण, हिंदी आलोचना का विकास क्रम,	हिंदी आलोचना का विकास क्रम, लोकसाहित्य का स्वरूप, परिभाषाएँ तथा विशेषताएँ,	विडम्बना (आयरनी), अजनबीपन (एलियनेशन), विसंगति (एब्सर्ड), अंतर्विरोध (पैराडॉक्स), विखंडन (डीकन्स्ट्रक्शन)	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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							जीवंत प्रस्तुतियों से परिचित होंगे।
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2019 - 2024

### HISTORY

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.A.	UAH S 111	Early India	Unit I: Sources	Unit I: Sources	Unit I: Sources	Unit I: Sources	CO 1 Get acquainted with the sources of early Indian history.
B.A.	UAH S 111	Early India	II: Harappan Culture: Bronze Age Civilization	II: Harappan Culture: Bronze Age Civilization	II: Harappan Culture: Bronze Age Civilization	II: Harappan Culture: Bronze Age Civilization	CO 2 Know about the early civilizations in India.
B.A.	UAH S 111	Early India	Unit III: Vedic Culture, Religious Protest: Jainism and Buddhism	Unit III: Vedic Culture, Religious Protest: Jainism and Buddhism	Unit III: Vedic Culture, Religious Protest: Jainism and Buddhism	Unit III: Vedic Culture, Religious Protest: Jainism and Buddhism	CO 3 Understand the socio-religious and economic transformations during the 6th Century A.D.
B.A.	UAH S 111	Early India	Unit IV: Emergence of the Mahajanpadas and	Unit IV: Emergence of the Mahajanpadas and	Unit IV: Emergence of the Mahajanpadas and	Unit IV: Emergence of the Mahajanpadas and	CO 3 Understand the socio-religious and





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Cycle IV

2019 - 2024

			the Age of the Mauryas	the Age of the Mauryas	the Age of the Mauryas	the Age of the Mauryas	economic transformations during the 6th Century A.D.
M.A. I	PAH S 111	History: Theory and Method	Unit 2 : History and its theories	Unit 2 : History and its theories	Unit 2 : History and its theories	Unit 2 : History and its theories	CO 1 Students will get acquainted with early theories of Historiography.
M.A. I	PAH S 111	History: Theory and Method	Unit 4 : Structuralism – Post Structuralism	Unit 4 : Structuralism – Post Structuralism	Unit 4 : Structuralism – Post Structuralism	Unit 4 : Structuralism – Post Structuralism	CO 2 Students will acquire knowledge about modern and most recent theories of History writing.
M.A. I	PAH S 112	Evolution of Ideas and Institutions in Early India	--	Unit 2 : Sources: Perceptions, Limitations, Range	--	Unit 2 : Sources: Perceptions, Limitations, Range	CO 1 Students will be able to analyze perceptions, limitations and range of sources of Early India.





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2019 - 2024

M.A. I	PAH S 114	Social Backgro und of Dalit Moveme nt in Maharas htra	Unit 3: Historical Backgrou nd of Protest	Unit 3: Historical Backgrou nd of Protest	Unit 3: Historical Backgrou nd of Protest	Unit 3: Historical Backgrou nd of Protest	CO 2 It highlights the earlier forms of protest from the ancient till the medieval period, which laid the foundatio ns for social protest and dissent in the pre- Ambedka r period.
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Cycle IV

2019 - 2024

## LINRARY SCIENCE

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.Lib.I. Sc.  (UG)	UBLIS 111	Foundations of Library & Information Science	Importance of libraries in society.	Library movement	Aware about the five laws	Library Development	To understand purpose, role and importance of libraries in society.  To familiarize students with development of libraries in global and India in particular.  To make them aware about the five laws of library science.
	UBLIS 112	Information management and Organizations	Management of libraries and information Centres	Aware of principles & functions of management	Management of libraries and information Centres.	Leadership in the LIS field	<b>CO1:</b> Can apply the skills and attitudes of visioning, entrepreneurship, advocacy, planning and Management of libraries and information





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Cycle IV

2019 - 2024

							centers (LICS) and effective leadership in the LIS field <b>CO2:</b> Training in organization of library work & collection development.  <b>CO3:</b> Make aware of principles & functions of management & their application to Librarianship.
UBL IS 113	Reference Service & Sources	structure and uses of reference and information sources	structure and uses of reference and information sources	structure and uses of reference and information sources	structure and uses of reference and information sources	structure and uses of reference and information sources	<b>CO3.</b> Develop the skills for providing reference and information <b>CO4.</b> Understand the nature, structure and uses of reference and information sources <b>CO5.</b> Identify the primary sources of information







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Cycle IV

2019 - 2024

							and their characteristics
	UBL IS 114	Information Science	Evaluate the information sources; resources	Evaluate the information sources; resources	Evaluate the information sources; resources	Evaluate the information sources; resources	<p><b>CO2:</b> Acquaint with concept of information users.</p> <p><b>CO3:</b> To make them understand the concept and need of user study, information user.</p> <p><b>CO4:</b> the basics of information sources and services and how to critically analyse and evaluate the information sources; resources</p>
	UBL IS 115	Knowledge Organization: Classification-I (Theory)	Knowledge as mapped in different classification schemes	Knowledge as mapped in different classification schemes	Knowledge as mapped in different classification schemes	Knowledge as mapped in different classification schemes	<p><b>CO5:</b> Elaborate meaning and types of subjects and modes of subject formation.</p>





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Cycle IV

2019 - 2024

							<p><b>CO6:</b> Illustrate knowledge as mapped in different classification schemes</p> <p><b>CO7:</b> Express the meaning, purpose, functions, theories and canons of library classification.</p>
	UBL IS 116	Information Processing : Cataloguing -I (Theory)	Principles and theories of library cataloguing.	Principles and theories of library cataloguing.	Principles and theories of library cataloguing.	Principles and theories of library cataloguing.	<p><b>CO1.</b> How to develop knowledge organization systems</p> <p><b>CO2.</b> The implications of knowledge organization systems and approaches</p> <p><b>CO3.</b> The principles and theories of library cataloguing.</p>





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2019 - 2024

	UBL IS 117	Information Communication Technologies (ICT) in Libraries (Theory)	Develop the library management software for application in different Libraries	Develop the library management software for application in different Libraries	Develop the library management software for application in different Libraries	Develop the library management software for application in different Libraries	<b>CO3.</b> Skillful use of Internet and its services. <b>CO4.</b> To provide a foundational understanding of information communication technology (ICT) and its components and applications. <b>CO5.</b> To explore the evolution and generations of computers, computer hardware components and software types.
<b>M.Lib.I. Sc. (PG)</b>	PML IS 111	Information, Communication & Society	Manage information resources and the information life- cycle	Manage information resources and the information life- cycle	Manage information resources and the information life- cycle	Manage information resources and the information life- cycle	CO1. Can manage information resources and the information life-cycle through the processes of collection development,





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2019 - 2024

							<p>organization, preservation, conservation, access, and dissemination in accordance with physical, virtual, and technical infrastructure and needs.</p> <p>CO2. About the information and r elated concept;</p> <p>CO3. How freedom of information prevails in an advanced society to uphold a democracy;</p>
PML IS 112	Introductio n to Research Methodolo gy	Different methods and techniqu es of research;	Different methods and techniqu es of research;	Different methods and techniqu es of research;	Differen t methods and techniqu es of research ;	CO4. The different methods and techniques of research;  CO5. The use of data collection tools, organization and	





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2019 - 2024

							representation of data;
	PML IS 113	Information Retrieval	Indexing systems and techniques.	Indexing systems and techniques.	Indexing systems and techniques.	Indexing systems and techniques.	CO2. Understand the Concept of information analysis, consolidation and repackaging.  CO3. Understand the Indexing systems and techniques.  CO4. Understand the quality of good abstracts and process of abstracting.
	PML IS 114	Management of Libraries & Information Centers - A	TQM & Marketing of LIS services.	Human Resources Management	Application of library management systems.	TQM & Marketing of LIS services.	CO1. The students are able to identify & describe the characteristic of library management systems.  CO2. Study the functions of management & their application to librarianship.





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2019 - 2024

							CO3. Familiarize students with the concept of System Analysis, Management of Change TQM & Marketing of LIS services.
	PML IS 115	Information Technology: (Theory)	System and application software.	System and application software.	System and application software.	System and application software.	CO7. To explore the basic ICTs tools in a practical manner.  CO8. To learn the usages of system and application software.





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### MARATHI

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. Sem. I	UAMR111	मराठी साहित्य : कथा आणि भाषिक कौशल्ये विकास	Stories Language Skills मरिआई चा गाडा अण्णाभाऊ साठे	Multi Language Skills कृष्णविवर-जयंत नारळीकर	<b>Regional</b> Language Skills वळीव-शंकर पाटील	Transleters जेव्हा मी जात चोरली होती - बाबुराव बागुल	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.
F.Y. B.A. Sem. II	UAMR121	मराठी साहित्य : कविता आणि भाषिक कौशल्ये	Poetry Language Skills सिजरकर म्हणतेय माती-कल्पना दुधाळ	Entrepreneurs माय,बाप, जीव	<b>Regional</b> Language Skills मृत्यूसोबत, विठोबा	Transleters आईच्या पदराखालून बाय आणि गाय	Po5 Personal and professional competence Pso- लेखन-संपादन, लेखनविद्या -





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NAAC-SSR

Cycle IV

2019 - 2024

		ल्ये विकास	विहीर विहीर				भाषांतर, रूपांतर, अनुवाद, वक्तृत्व कला, नाट्यकला, याअभिव्य क्तीच्या आविष्कार प्रकार व प्रक्रियांविष यी तसेच त्यासंबंधीची माहिती होईल. Co- प्रसार माध्यमांमध्ये विद्यार्थ्यांना आपले विचार निर्भीडपणे मांडण्याचे कौशल्य प्राप्त होईल.
F.Y.B. COM Sem. I	UCMR1 11(B)	साहि त्य आणि भाषि क कौश ल्ये विकास	वैचारिक, विषयक इडली, आर्किड आणि मी -लेखक -विठ्ठल कामत	Multi Language Skills निबंध लेखन, भाषिक कौशल्य	<b>Regional</b> Language Skills ललित, वाणिज्य	Job Opportunity व्यावसायिक कौशल्य	PO4: <b>Disciplinar y Knowledge</b> : PSO- वाङ्मयाची आणि जीवनाची







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2019 - 2024

							जाणीव प्रौढ होईल. Co-विद्यार्थ्यांच्या लेखन गुणांना उत्तेजन मिळेल.कार्यालयीन व प्रशासकीय व्यवहार करताना व द्याथ्यांना मराठीचा अचूक व प्रभावी वापर करता येईल.
F.Y.B. COM Sem. II	UCMR1 21(B)	भाषा आणि भाषिक कौशल्ये विकासास	अर्ज लेखन: विनंती अर्ज	Multi Language Skills इतिवृत्त लेखन	Regional Language Skills टिप्पणी लेखन	Job Opportunity प्रशासनिक कौशल्य	<b>PO8: Critical Thinking and Problem solving:</b> PSO-. विद्यार्थ्यांची भाषिक कौशल्याच्या वापरासंबंधीची क्षमता विकसित होईल. Co-. भाषिक क्षमता व कौशल्य





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2019 - 2024

							आत्मसात करता येतील.
S.Y.B. A. Sem. III	MARG EN2301	आधुनिक मराठी साहित्य आणि उपयोजित मराठी	Stories Language Skills KkuT;ksrh lkfo=hc kbZ Qqys % L=h gDdkpk iz.ksR;k &izk-gjh ujs	Multi Language Skills महर्षी /kksaMksa ds'ko dosZ % निष्काम deZ;ksxh& MkW- u-e- tks'kh	<b>Regional</b> Language Skills egkjkTk l;kthjko xk;dokM % दूरदृष्टा jtkk&ckc k HkkaM	Transleters MkW-ckcklkgsc vkacsMdj % 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





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Cycle IV

2019 - 2024

							आकलनक्षम तेत वाढ होईल.
S.Y.B. A. Sem. III	MARSP L2302	मराठी साहि त्याती ल विविध साहि त्य प्रवाह	Poetry Languag e Skills निवडक कथा व विविध वाङ्मय प्रकारचा अभ्यास	Entreprene urs निवडक कादंबरी, व विविध वाङ्मय प्रकारचा अभ्यास	<b>Regional</b> Language Skills निवडक कविता व विविध वाङ्मय प्रकारचा अभ्यास	Transleters निवडक नियतकालिके विविध वाङ्मय प्रकारचा अभ्यास	Po6. Self- directed and Life- long learning: Pso- लेखकाच्या समग्र लेखक म्हणून अभ्यासाची जाण विकसित होईल तसेच विविध साहित्य प्रवाहांची माहिती होईल व अशा अभ्यासाच्या आकलनक्षम तेत वाढ होईल. Co- आत्मचरित्र, आत्मकथन या वाङ्मय प्रकाराचे विद्यार्थ्यांना आकलन होईल.





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2019 - 2024

S.Y.B. A. Sem. III	MARSP L2303	अर्वाची न मराठी वाङ्म याचा इतिहा स (१८१८ ते १९२०)	Languag e & Literatur e Skill निवडक कथा व विविध वाङ्मय प्रकारांचा अभ्यास	Multi Language Skills निवडक कादंबरी, व विविध वाङ् प्रकारांचा अभ्यास	<b>Regional</b> Language Skills निवडक कविता व विविध वाङ्मय प्रकारांचा अभ्यास	Job Opportunity निवडक नियतकालिके विविध वाङ्मय प्रकारांचा अभ्यास	Po4.Disci plinary Knowled ge: Pso-विशिष्ट कालखंडाती ल साहित्याच्या अभ्यासाच्या व्याप्ती बद्दल विद्यार्थ्यांची जाण वाढीस लागण्यास मदत होईल. Co- या संपूर्ण कालखंडाती ल निबंध, कविता, कथा, कादंबरी, नाटक, चरित्र- आत्मचरित्र, या वाङ्मय प्रकारांचे विद्यार्थ्यांना आकलन होईल.
S.Y.B. A. Sem. IV	MARG EN2401	आधुनि क मराठी साहि त्य	Stories Languag e Skills e;kZn'k hy	Multi Language Skills eh vkf.k ek>s	<b>Regional</b> Language Skills lkfgfR;d tM.k?kM.	Transleters foLrkj.kkjs f{kfrt& MkW- rkjk HkokGdj	Po6; Self- directed and Life- long learning:





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2019 - 2024

		आणि उपयो जित मराठी	thoukpk vkys[k & Jherh izfrHkkr kbZ ikVhy	ys[ku& MkW- ;w- e- iBk.k	k& jk- x- tk/ko		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	MARSP L2402	मराठी साहि त्याती ल विविध साहि त्य प्रवाह	Languag e Skills	Language Skills कादंबरी - "७२ मैल" अशोक व्हटकर	Entrepren eurs कादंबरीचे घटक	<b>Regional</b> Language Skills कादंबरीचे प्रकार	Anchor कथानक





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Cycle IV

2019 - 2024

S.Y.B. A. Sem. IV	MARSP L2403	अर्वाची न मराठी वाङ्म याचा इतिहा स (१९२० ते १९६०)	Languag e Skills	Language & Literature Skill निवडक कथा व विविध वाङ्मय प्रकारचा अभ्यास	Multi Language Skills निवडक कादंबरी, व विविध वाङ्मय प्रकारचा अभ्यास	<b>Regional</b> Language Skills निवडक कविता व विविध वाङ्मय प्रकारचा अभ्यास	Job Opportunit y निवडक नियतकालि के विविध वाङ्मय प्रकारचा अभ्यास
S.Y.B. A. Sem. IV	PR-1	Projec t-1	Languag e Skills विविध भाषिक कौशल्य	Multi Language Skills ग्रंथ परीक्षण	<b>Regional</b> Language Skills कविता	<b>Global</b> अनुवाद कौशल्य	PO3: <b>Social competenc e: PSO.</b> विद्यार्थ्यांची चिकित्सक अभ्यासाची क्षमता विकसित होईल. Co- भाषिक कौशल्याची क्षमता विकसित होईल.
T.Y.B. A. Sem.V	MARG EN3501	आधुनि क मराठी साहि त्य प्रकारां चा अभ्या स	Stories Languag e Skills 'उद्याच्या सुंदर दिवसांसा ठी' - डॉ. नागनाथ कोत्ताप ल्ले,	Multi Language Skills ग्रंथ परीक्षण	<b>Regional</b> Language Skills ललित गद्य स्वरूप	Transleters संवाद कौशल्य	<b>PO6: Self- directed and Life- long learning:</b> pso साहित्याच्या लक्षणांबाबत विचारांची आणि





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NAAC-SSR

Cycle IV

2019 - 2024

							वाङ्मयीन मूल्यमापना च्या दृष्टीची समज विकसित होईल. co-विद्यार्थ्यांची वाङ्मयीन अभिरुची विकसित झाल्याने साहित्यकृती च्या गुणात्मक मूल्यांची जाणीव होईल
T.Y.B. A. Sem.V	MARSP L3502	साहित्य विचार	Language Skills व्यवहार भाषा, शास्त्रीय साहित्याची भाषा व साहित्याची भाषा यांच्यातील भेद	Multi Language Skills कलावादी व जीवनवादी या दृष्टीने प्रयोजन विचार	1. Regional Language Skills साहित्याचे शब्द	आस्वादक	PO4:Disciplinary Knowledge : pso-साहित्याच्या लक्षणांबाबत विचारांची आणि वाङ्मयीन मूल्यमापना च्या दृष्टीची समज विकसित होईल.





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Cycle IV

2019 - 2024

					स्वरूप		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 Language Skills भाषाभेद	<b>Regional</b> Language Skills बोलीभूगोल	Transleters अनुवाद	PO4: <b>Disciplinary Knowledge</b> : psoविद्यार्थ्यांची भाषिक अभिव्यक्ती सुधारण्यास तसेच पर्यायाने समाजाची भाषिक अभिवृद्धी विकसित होण्याची प्रक्रिया सुरु होईल. co-भाषा कुलाची संकल्पना समजेल.
T.Y.B. A. Sem.V	UAMRS EC SEC-3	लेखन विषयक नियम	Language Skills	Multi Language Skills	<b>Regional</b> Language Skills	Job Opportunity	







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Cycle IV

2019 - 2024

T.Y.B. A. Sem.V I	MARG EN3601	आधुनि क मराठी साहि त्य प्रकारां चा अभ्या स	Stories Languag e Skills ‘दोन चाक आणि मी’ -लेखक- हृषीकेश पाळंदे,	Multi Language Skills प्रवा सवर्णनाचे घटक	<b>Regional</b> Language Skills प्र वास वर्णनाची परंपरा	Transleters प्रवासवर्णनाका र	<b>PO6: Self- directed and Life- long learning:</b> pso- साहित्यकृती च्या, साहित्यप्रका रांच्या, तौलनिक अभ्यासाची दिशा, व्याप्ती व मर्यादा याबाबतीत समज निर्माण होण्यास मदत होईल. co- विद्यार्थ्यांची साहित्यप्रका रांचा तौलनिक अभ्यास करण्याची क्षमता विकसीत होईल.
T.Y.B. A. Sem.V I	MARSP L3602	साहि त्य विचार	Languag e Skills आस्वाद काचे गुण	Multi Language Skills लेखक, वाचक	<b>Regional</b> Language Skills अभिरुची नियंत्रित	Transleters साहित्य प्रकार संकल्पना	<b>PO8: Critical Thinking and Problem</b>





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Cycle IV

2019 - 2024

				आणि भाषा यांची सामाजिक ता	करणारे घटक		<b>solving:</b> pso- वाड्मयीन 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 भाषि क अभ्या स	Languag e Skills स्वन विज्ञान	Multi Language Skills अर्थाचे विविध प्रकार	<b>Regional</b> Language Skills स्वनिम निश्चितीची तत्वे	Transleters रूपिमाचे प्रकार	<b>PO4:Disciplinary Knowledge</b> : pso- मराठी भाषा आणि वाड्मयाविष यीचे प्रगत ज्ञान होईल. co- मराठी भाषेची उत्पत्ती व विकास याचे आकलन होईल.
T.Y.B. A. Sem.V I	PR-1	Projec t-1	Languag e Skills	Multi Language Skills	<b>Regional</b> Language Skills	<b>Global</b> अनुवाद कौशल्य	<b>PO3: Social competenc e: PSO.</b>





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2019 - 2024

			भाषिक कौशल्य चरित्र, आत्मचरित्र	ग्रंथ परीक्षण	कविता		विद्यार्थ्यांची चिकित्सक अभ्यासाची क्षमता विकसित होईल. Co- भाषिक कौशल्याची क्षमता विकसित होईल.
S.Y.BS .C. Sem. III	MAR23 01A	मराठी विज्ञान साहित्य आणि व्यावहारिक मराठी	Stories Language Skills विज्ञान कथा	Multi Language Skills वैज्ञानिक दृष्टी	Regional Language Skills तार्किकता	अनुमान	<b>PO8:</b> <b>Critical Thinking and Problem solving:</b> <b>PSO-</b> साहित्याच्या अभ्यासातून विद्यार्थ्यांच्या सूक्ष्म, विश्लेषक व चिकित्सक अभ्यास करण्याच्या क्षमतेमध्ये वाढ होईल. co- वैज्ञानिक जाणीवा विकसित होतील.





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2019 - 2024

S.Y.BS .C. Sem. VI	MAR24 01A	मराठी विज्ञान साहि त्य आणि व्याव हारिक मराठी	Stories Languag e Skills विज्ञान कथा	Multi Language Skills वैज्ञानिक जाणीव	<b>Regional</b> Language Skills वैज्ञानिक दृष्टिकोन	Transleters वैज्ञानिकता	<b>PO8:</b> <b>Critical</b> <b>Thinking</b> <b>and</b> <b>Problem</b> <b>solving:</b> <b>PSO-</b> साहित्याच्या अभ्यासातून विद्यार्थ्यांच्या सूक्ष्म, विश्लेषक व चिकित्सक अभ्यास करण्याच्या क्षमतेमध्ये वाढ होईल. co- जीवनामध्ये विज्ञानाचा सुयोग्य वापर करायला शिकतील.
M. A. I Sem.I	PAMR1 11	व्याव हारिक आणि उपयो जित मराठी भाग- १	Languag e Skill मुद्रित शोधन	Multi Language Skills प्रमाणलेखन	<b>Regional</b> Language Skills मुलाखत लेखन	Job Opportunityti es मुलाखतकार, मुद्रितशोधक	<b>PO4:Discip linary</b> <b>Knowledge</b> : <b>PSO.</b> भाषेचे विविध व्यवहार आणि साहित्याच्या





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2019 - 2024

							संदर्भातील भाषा व्यवहार याविषयीची आकलनाची क्षमता विकसित होईल. co-व्यवहारिक व उपयोजित भाषेची ओळख होईल तसेच कौशल्य विकसित होतील.
M. A. I Sem.I	PAMR1 12	मध्ययु गीन मराठी वाङ्मयाचा इतिहास (प्रारंभ ते १६००)	Literature Skill वाङ्मयाचा इतिहास	Literature Knowledge Skill विविध वाङ्मय प्रकार	<b>Regional Language Skills</b> विविध वाङ्मय वाटचाल	Job Opportunity लेखक	Pol <b>Research-Related Skills:</b> pso-विशिष्ट कालखंडातील साहित्याच्या अभ्यासाच्या व्याप्ती बद्दल विद्यार्थ्यांची जाण वाढीस लागण्यास मदत होईल. co- मराठी भाषेची उत्पत्ती





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2019 - 2024

							विकास व स्थित्यंतराची ओळख होईल.
M. A. I Sem.I	PAMR1 13	भाषा विज्ञान - वर्णनात्मक	Language Skills स्वन विज्ञान	Multi Language Skills अर्थाचे विविध प्रकार	<b>Regional</b> Language Skills स्वनिम निश्चितीची तत्वे	Translators बहुभाषिक	PO1 <b>Research-Related Skills:</b> 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	PAMR1 14	ग्रामीण साहित्य	Language Skill ग्रामीण कथा	Multi Language विविध बोलींचा अभ्यास	<b>Social &amp; Regional</b> Language Skills सामाजिक बांधिलकी	Author ग्रामीण लेखकांचा अभ्यास	PO3: <b>Social competence:</b> pso-लेखकाच्या समग्र लेखक म्हणून





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2019 - 2024

							अभ्यासाची जाण विकसित होईल तसेच विविध साहित्य प्रवाहांची माहिती होईल व अशा अभ्यासाच्या आकलनक्षमतेत वाढ होईल. co-ग्रामीण कथा कादंबरी व साहित्याचे आकलन होईल.
M. A. I Sem.II	PAMR1 21	व्यावहारिक आणि उपयोजित मराठी भाग- २	Language Skill निवेदन कौशल्य	Multi Language Skills भाषांतर	Language Skills Print, Radio & Television Media Etc. skills अनुवादक	Language Based Job Opportunities जनसंपर्क अधिकारी	<b>PO5: Personal and professional competence:</b> pso-लेखन-संपादन, लेखनविद्या -, भाषांतर, रूपांतर, अनुवाद, वक्तृत्व





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2019 - 2024

							कला, नाट्यकला, या अभिव्यक्ती च्या आविष्कार प्रकार व प्रक्रियांविष यी तसेच त्यासंबंधीची माहिती होईल. co-भाषेच्या माध्यमातून चालणाऱ्या व्यवसायाची ओळख होईल.
M. A. I Sem.II	PAMR1 22	मध्ययु गीन मराठी वाङ्म याचा इतिहा स (प्रारंभ १६०० ते १८१८)	Languag e Skill कथा कादंबरी नाटक चरित्र	Multi Language Skills विविध वाङ्मयाचा परिचय	Literature Developm ent Skills साहित्य प्रकार, वाटचाल, आलेख	Language Based Job Opportunities समीक्षक	Pol <b>Research- Related Skills:</b> pso- साहित्याविष यीची प्राचीन, मध्ययुगीन, आधुनिक, भारतीय व पाश्चात्य विचारांबाबत समज वाढविण्यास मदत होईल. co-मराठी वाङ्मयाची







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2019 - 2024

							ऐतिहासिक सामाजिक धार्मिक आणि राजकीय पार्श्वभूमी लक्षात येईल.
M. A. I Sem.II	PAMR1 23	भाषा विज्ञान - सामा जिक	Languag e Skills सामाजिक बोली	Multi Language Skills समाज आणि मानसशास्त्र	<b>Regional</b> Language Skills स्त्रियांची भाषा पुरुषांची भाषा	Transleters बहुभाषिक	PO3: <b>Social competenc e:</b> 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	PAMR2 14	दलित साहि त्य	Languag e Skill दलित कथा	Multi Language Skills दलित कविता	<b>Social &amp; Regional</b> Language Skills	Language Based Job Opportunities विश्लेषक	<b>PO8: Critical Thinking and</b>





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2019 - 2024

					दलित आत्मकथन		<b>Problem solving:</b> pso- एक जबाबदार नागरिक या दृष्टीने नैतिक व सामाजिक मूल्ये, 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	MAR5301	प्रसार माध्यमे आणि साहित्य व्यवहार	Language Skill वृत्तपत्रातील भाषा	Multi Language Skills चित्रपटातील भाषा	Social & Regional Language Skills समाज माध्यम	Language Based Job Opportunities संपादक, दिग्दर्शक	<b>PO8: Critical Thinking and Problem solving:</b> pso- वाङ्मयीन व सामाजिक





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Cycle IV

2019 - 2024

					मधील भाषा		प्रश्नांसंबंधी विचार करण्याची जाण वाढीस लागेल. co- विद्यार्थ्यांना मराठीतील वैचारिक साहित्याची ओळख होईल.
M. A. II Sem.II I	MAR53 02	साहि त्य समीक्षा	Languag e Skill समीक्षका चे गुण	Multi Language Skills समीक्षकाचे पथे	Social & <b>Regional</b> Language Skills समीक्षेच्या विविध पद्धती	Language Based Job Opportunities समीक्षक विचारवंत	<b>PO3:</b> <b>Social</b> <b>competenc</b> <b>e and</b> <b>communic</b> <b>ation skills:</b> <b>PSO.</b> विद्यार्थ्यांची भाषिक अभिव्यक्ती सुधारण्यास तसेच पर्यायाने समाजाची भाषिक अभिवृद्धी विकसित होण्याची प्रक्रिया सुरू होईल. co- समाजामध्ये





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Cycle IV

2019 - 2024

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M. A. II Sem.II I	MAR53 03	विशेष लेख काचा अभ्या स - मध्ययु गीन	Languag e Skill लेखन शैली	Multi Language Skills लेखकाची जडणघडण	Social & <b>Regional</b> Language Skills लेखकाची सामाजिक ता सांस्कृतिक परिप्रेक्ष	Language Based Job Opportunities जीवन विषयक दृष्टिकोन	<b>PO5:</b> <b>Personal and profession al competenc e:</b> pso- लेखन- संपादन, लेखनविद्या -, भाषांतर, रूपांतर, अनुवाद, वक्तृत्व कला, नाट्यकला, या अभिव्यक्ती च्या आविष्कार प्रकार व प्रक्रियांविष यी तसेच त्यासंबंधीची माहिती होईल. co- टक- श्राव्य माध्यमांसाठी लेखन





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Cycle IV

2019 - 2024

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M. A. II Sem.II I	MAR53 04	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 l : R e 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





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Cycle IV

2019 - 2024

							विकसित होईल. co- la'kks/ku dj.;kph n''Vh o {kerk fodflr करता येईल.
M. A. II Sem.II I	SDC-1	भाषि क कौश ल्ये	Languag e Skills भाषिक कौशल्य	Multi Language Skills लेखन कौशल्य	<b>Regional</b> Language Skills संकलन	Transleters	PO2: <b>Effective Citizenship and Ethics:</b> pso- लेखकाच्या समग्र लेखक म्हणून अभ्यासाची जाण विकसित होईल तसेच विविध साहित्य प्रवाहांची माहिती होईल व अशा अभ्यासाच्या आकलनक्षम तेत वाढ होईल.





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							co- लेखकाचा लेखन प्रवास जाणून घेतल्यामुळे विद्यार्थ्यांना वाङ्मयीन निर्मितीची आणि आस्वादाची प्रेरणा मिळेल.
M. A. II Sem IV	MAR54 01	प्रसार माध्यमे आणि साहित्य व्यवहार	Language Skill वृत्तपत्रातील भाषा	Multi Language Skills चित्रपटातील भाषा पटकथा लेखन	Social & <b>Regional</b> Language Skills समाज माध्यम मधील भाषा	Language Based Job Opportunities संपादक, दिग्दर्शक पटकथा लेखक	PO2: <b>Effective Citizenship and Ethics:</b> pso-एक जबाबदार नागरिक या दृष्टीने नैतिक व सामाजिक मूल्ये, साहित्य व सांस्कृतिक मूल्ये, राष्ट्रीय मूल्यांचे संवर्धन पर्यावरण संरक्षण व संवर्धन, समा जभान याविषयीची विद्यार्थ्यांची





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							जाणीव विकसित होईल. co-विद्यार्थ्यांना मराठीतील साहित्याचे सामाजिक स्वरूप लक्षात येईल
M. A. II Sem	MAR5402	साहित्य संशोधन	Language Skill संशोधकाचे गुण	Multi Language Skills संशोधन परंपरा	Social & Regional Language Skills अंतर्विद्या क्षेत्रीय संशोधन	Language Based Job Opportunities संशोधक	<b>PO6: Self-directed and Life-long learning:</b> <b>PSO.</b> विद्यार्थ्यांची भाषिक अभिव्यक्ती सुधारण्यास तसेच पर्यायाने समाजाची भाषिक अभिवृद्धी विकसित होण्याची प्रक्रिया सुरू होईल. co-समाजामध्ये प्रभावीपणे भाषा वापर







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							करण्यास शिकतील.
M. A. II Sem	MAR54 03	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	<b>PO8:</b> <b>Critical Thinking and Problem solving:</b> pso-वाड्मयीन व सामाजिक प्रश्नांसंबंधी विचार करण्याची जाण वाढीस लागेल. co-विद्यार्थ्यांना मराठीतील वैचारिक साहित्याची ओळख होईल.
M. A. II Sem	MAR54 04	साहित्याचा 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	<b>PO2:</b> <b>Effective Citizenship and Ethics:</b> pso-एक जबाबदार नागरिक या दृष्टीने नैतिक व सामाजिक मूल्ये,





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							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	SDC-2	भाषिक कौशल्ये	Language Skills भाषिक कौशल्य	Multi Language Skills लेखन कौशल्य	<b>Regional</b> Language Skills संकलन	Translators संवादक	<b>PO8:</b> <b>Critical Thinking and Problem solving:</b> <b>PSO.</b> भाषेचे विविध व्यवहार आणि साहित्याच्या संदर्भातील भाषा





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							व्यवहार याविषयीची आकलनाची क्षमता विकसित होईल.  co- विद्यार्थ्यांची चिकित्सक अभ्यासाची क्षमता विकसित होईल.
M. A. II Sem	PR-1	Project-1	शिस्तब द्ध लेखन	मुद्देसुद्धपणा	स्थानिक गरज	संशोधक	<b>PO3:</b> <b>Social</b> <b>competenc</b> <b>e and</b> <b>communic</b> <b>ation skills:</b> <b>PSO.</b> विद्यार्थ्यांची भाषिक अभिव्यक्ती सुधारण्यास तसेच पर्यायाने समाजाची भाषिक अभिवृद्धी विकसित होण्याची प्रक्रिया सुरू होईल.





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								co- समाजामध्ये प्रभावीपणे भाषा वापर करण्यास शिकतील.
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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)	UAP H111	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: <b>Academic Competence</b> : Explore various branches of Philosophy and their interrelations  CO1: The study of Philosophy helps the student





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							<p>s to get acquainted with different schools of Indian philosophy</p> <p>CO2: Students learn new technical terminologies</p>
	UAP H121	Moral Philosophy	Areas of Ethics	Areas of Ethics	Areas of Ethics	Areas of Ethics	<p>PO1: Entrepreneurial and Social Competence: Apply ethical theories and principles in real life situations.</p> <p>CO1: Studies ethics theoretically</p>





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							and on a large scale. This helps students to judge our day-to-today practical issues quite reasonably.  CO2: To rise social awareness
	<b>UAL O111</b>	Tradition Logic (Deductive Logic)	Deductive and Inductive branches of logic	Deductive and Inductive branches of logic			CO1: Students get acquainted with the use of logical rules for identifying a valid argument CO2: Encourage of reason
	<b>UAL O121</b>	Tradition Logic (Inductive Logic)	Scientific Explanation- Kinds of scientific Explanation	Scientific Explanation- Kinds of scientific Explanation	Scientific Explanation- Kinds of scientific Explanation	Scientific Explanation- Kinds of scientific Explanation	PO1: <b>Research Competence</b> : Logically assess the arguments with reference to





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							<p>their comparative strengths and weakness</p> <p>CO1: Students can understand characteristic s of science</p> <p>CO2: Students well know how we can research scientifically</p> <p>CO3: Students can use the skills in competitive exam</p>
PHIL 2301	Philosophy of Indian Saints	Conception of a Saint	Conception of a Saint	Conception of a Saint	Conception of a Saint	Conception of a Saint	<p>CO1: Enhances critical thinking of students</p> <p>CO2: Understand key Philosophical foundation of</p>







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							the Saints intellectual tradition, particularly insofar the tradition has addressed issues of basic Philosophy.  CO3: To acquaint the student with the metaphysical, Stereological and social approaches of selected saints.
PHIL 2401	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	





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							and social approaches of selected saints
	PHIL 2302	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 helps the students to get acquainted





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							<p>with different schools of Indian philosophy like Cārvāka, Jainism and Buddhism as Nāstika schools on the other hand, Sāṅkhya, 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 and Western traditions.</p> <p>CO3: To teach students the Importance of Moral Behavior and Familiarise</p>
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							them with the resolution of Value conflicts in today's life.
PHIL 2402	Indian & Western Philosophy	Four noble truths	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 Socrates, Plato, Descartes, Spinoza, Leibnitz, Locke, Berkeley, Hume and Kant.  CO2: Know core issues, problems and concerns in both Indian





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2019 - 2024

							and Western traditions.
	PHIL 2303	Jain Philosophy	A 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 Philosophical theories to analyse situations and inform Judgments about Actions.  CO2: Comprehend the theory of reality of the systems of Jain philosophy





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	PHIL 2403	Jain Philoso phy	Jain Dhyan and Yoga	Jain Dhyan and Yoga	Jain Dhyan and Yoga	Jain Dhyan and Yoga	CO1: Learn to use Jain Philosophical theories to analyse situations and inform Judgments about Actions.  CO2: Comprehend the theory of reality of the systems of Jain philosophy  PO1: <b>Entrepre neurial and Social Competence</b> :  Develop an open minded approach and an attitude of respect for





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							diverse opinions
	LOG2 301	Formal Logic	Symbolic Logic	Symbolic Logic	Symbolic Logic	Symbolic Logic	PO1: <b>Personal and Professional Competence</b> : Process information in a logically consistent manner so as to come up with their own position about a certain topic.  CO1: Students get acquainted with the use of logical rules for identifying a valid argument. Along with these, they also learn existential import, symbolic interpretation





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							<p>, 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 knowledge through various prescribed means.</p>
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	LOG2 401	Formal Logic	Predicate Logic	Predicate Logic		Relational Logic	PO1: <b>Research Competence</b> : Logically assess the arguments with reference to their comparative strengths and weaknesses.  CO1: Student s get acquainted with the use of logical rules for identifying a valid argument. Along with these, they also learn existential import, symbolic interpretation , constructing formal proof of .validity, proving invalidity,
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							Quantification theory  CO2: Studies of logic improve the analytical skills and knowledge of the formal techniques of evaluating arguments and deductive.
	PHIL 3501	Modern Indian Philosopher	Thoughts about Shudras and Women	Sarvoday	Thoughts about Shudras and Women  Thoughts about Education	Sarvoday  Thoughts about Education	CO1: Become effective writers, including writers of high-quality academic prose.  CO2: They also study the basic concepts of society, nature and role of family





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2019 - 2024

							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 political ideals
PHIL 3601	Modern Indian Philosopher	A as a Method	A as a Method	Democracy	Democracy	CO1: Become effective writers, including writers of high-quality	





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							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 Radhakrishnan, Rabindranath Tagore, Iqbal, Ambedkar, etc
PHIL 3502	Indian & Western Philosophy	Nyaya Darshan, Vaisheshik Darshan, Shankaracharya's Darshan, Ramanuja	Nyaya Darshan, Vaisheshik Darshan, Shankaracharya's Darshan, Ramanuja	Nyaya Darshan, Vaisheshik Darshan, Shankaracharya's Darshan, Ramanuja	Nyaya Darshan, Vaisheshik Darshan, Shankaracharya's Darshan, Ramanuja	Nyaya Darshan, Vaisheshik Darshan, Shankaracharya's Darshan, Ramanuja	PO1: <b>Academic Competence</b> : (i) Know core issues, problems and concerns in both Indian and Western





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			charya's & madhavac harya's Darshan	charya's & madhavac harya's Darshan	charya's & madhavac harya's Darshan	charya's & madhavac harya's Darshan	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 get acquainted with different schools of Indian philosophy like Cārvāka, Jainism and Buddhism as Nāstika schools on the other hand, Sāṃkhya, Yoga, Nyāya, Vaiśeṣika,
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							Mimāṃsā and Vedānta as Āstika school, on the other hand  CO2: To teach students the Importance of Moral Behavior and Familiarise them with resolution of Value conflicts in today life
	PHIL 3602	Indian & Western Philosophy	Locke, Berkeley Hume and Kant.	Locke, Berkeley Hume and Kant.	Locke, Berkeley Hume and Kant.	Locke, Berkeley Hume and Kant.	PO1: <b>Research Competence</b> : (i) Critically evaluate approaches, theories, positions, norms, values. (ii) Analyse concepts and to trace their historical development.





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							CO1: Students get acquainted with the epistemological and metaphysical theories of the western philosophers like Socrates, Plato, Descartes, Spinoza, Leibnitz, Locke, Berkeley Hume and Kant.  CO2: To introduce Ancient and Medieval Greek Philosophy as an academic discipline to students.
	PHIL 3503	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





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							analyse situations and inform Judgments about Actions.  CO2: Comprehend the theory of reality of the systems of Jain philosophy
PHIL 3603	Jain Philosophy	Meditation	Meditation	Seven Principles	Meditation	<b>PO1: Research Competence</b> : (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	







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							analyse situations and inform Judgments about Actions.  CO2: Comprehend the theory of reality of the systems of Jain philosophy
LOG3 501	LOGIC : Methodology of Social Science	Values and Science	Values and Science	Values and Science	Values and Science	Values and Science	PO1: <b>Research Competence:</b> Critically evaluate approaches, theories, positions, norms, values  CO1: Process information in a logically consistent manner so as to come up with their own position





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							about a certain topic.
							CO2: To apply knowledge to new situations to solve problems using required knowledge or skills.
LOG3 601	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 certain topic.</p> <p>CO3: To create something, to</p>
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							integrate ideas into a solution, to propose an action plan, to formulate a new classification scheme
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## SANSKRIT

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 Sanskrit (UG)	UAS A111	Sanskrit Pravasha - 1		Ved va vedangancha Parichay		Subhashit-Sangraha Sinha-Shashakakatha (Story from Pachatantra)	CO1: Students learn linguistic skills PSO3. Disciplinary Knowledge: Demonstrate a blend of traditional knowledge along with its application in the modern lifestyle
	UAS A121	Sanskrit	Janapadaniveshaha		Gurvashtakam	Prahelekasa ngraha	CO2: Students





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		Prav esha - 2	(Selected part from Kautilya's Arthashastra)				understand the application of Sanskrit language.  Students learn the skill of memorising the Sanskrit verses.  Students understand the moral values associated with the field of education.  PSO6. Human Perception and Behaviour: Learning Texts to
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							understand human perception and behaviour is essential to improve decision making process.
SAN 2301	Sanskrit PArichay - 1	Shivarajgun varnanam		Study of Krushiparashar (A Text on Ancient Indian Agriculture )	Study of Scientific Texts in Sanskrit	PSO3. Disciplinary Knowledge: Demonstrate a blend of traditional knowledge along with its application in the modern lifestyle.	





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							CO3: Know the concept of Science in Sanskrit . Underst and the linguisti c differen ce in sanskrit from different time periods
	SAN 2401	Sans krit Paric hay - 2		1.Yamaniy amau 2. Dakalabdh i	Study of Mrugpakshi shastra (An ancient Indian text on ZOOLOGY )		CO3: Explore the science in Sanskrit . PSO1. Researc h- Related Skills: Develop







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							inter-disciplinary research aptitude and independent thinking .
SAN 3501	Sanskrit Bhasaha Prabodha - 1	Aadhunik Sanskrit Sahityacha Parichay	Sanskrit Arsha Mahakavyancha Parichay	Sanskrit Koriv Lekhanche Vachan	Sanskrit Koriv Lekhanche Vachan	CO1: To study the linguistic peculiarities and style of an important texts from Indian Tradition 'Ramayan' & 'Mahabharata'	CO2: To know the historical evidenc





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							es from Sanskrit Texts.
SAN 3601	Sans krit Bhas ha Prab odha - 2	Sadyakalin Sanskrit Kshetracha aadhava	Sanskrit Natyapara mparecha Parichay	Hastalikhits hastracha Parichay	Hastalikhits hastracha Parichay		PSO11. Identific ation of critical problem s and issues: Detectio n and identific ation of the critical problem s and spatial issues are essential for sustaina ble develop ment  PSO6. Human Percepti on and Behavio ur: Learnin g Texts





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							to understand human perception and behaviour is essential to improve decision making process. PSO4. Personal and Professional Competence: A well managed idea of 'Self' makes the student efficient to live professional and personal life with
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							peace and harmony. CO4: Students can learn the conservation skills of Manuscripts and develop scientific attitude towards conservation of Manuscripts
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## 1.1 Curriculum Design and Development

1.1.1. Curricula developed and implemented have relevance to the local, regional, national, and global developmental needs, which is reflected in the Programme outcomes (POs) and Course Outcomes(COs) of the Programmes offered by the institution (Qualitative Metrics)

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	UASO 111 UASO 121	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.





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							Pos: 1 Student will be able to learn how 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.	SOC2 303	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





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							to face social problems. 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
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							sociological perspectives.
	SOC2 302	Foundation of Sociological Thought	Dominant Caste	Sanskritization	Theory of Class Struggle	Indology	COs: 1 Students are familiarized with social, political, economical and intellectual contexts of emergence of Sociology. COs: 2 Students are able to understand social thoughts. Pos: 1 Students are familiarized with major perspectives and works of some Indian sociologists.
	SOC2 301	Population and Society	Fertility and Mortality	population and poverty	Nature and character	Migration	COs: 1 Students are able to







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					istics of Indian populatio n		understand the nature, scope and concepts related to 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 understandi ng of the theoretical and empirical approaches taken to understand





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							<p>the relationship between criminal behavior 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 underpinnin</p>
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2019 - 2024

							g of research on the above topics. Pos: 1 Identify 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.





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							Pos: 1 Comprehended the historical context to the current socio-economic trends and problems confronted by Contemporary India.
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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)	UBCA 111	Logic in Computer Science	Propositional Logic, Predicate Logic, Program Verification	Propositional Logic, Predicate Logic, Program Verification	Propositional Logic, Predicate Logic, Program Verification	Propositional Logic, Predicate Logic, Program Verification	CO1: Students will be able to understand fundamental concepts in propositional, predicate, temporal logic and modal logic and resolution techniques. CO2. Students should be able to apply the concept of program verification in real-world scenarios PO1. Knowledge : To understand and apply the fundamental principles, concepts, and methods in diverse areas of





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							computer science, computer applications, management, mathematics, statistics, etc. 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
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							emerging technologies.
UBCA 112	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	CO3. Classify different data structures such as stack, queues, linked list, trees and graphs CO4. Implement linear and non-linear data structures 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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NAAC-SSR

Cycle IV

2019 - 2024

							specified needs with appropriate consideration 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
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							synthesis of the information to arrive at valid conclusions .
UBCA 113	Relational Database Management System	SQL, Recovery System	SQL, Recovery System	SQL, Recovery System	SQL, Recovery System	SQL, Recovery System	CO1.Demonstrate basic elements of relational database management system CO6.Analyze SQL DDL, DML and simple queries. CO7.How Database recovery techniques are used in database management systems (DBMS) to restore a database to a consistent state after a failure or error has occurred. PO3. Design and





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							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. PO4. Conduct investigation
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							ns 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 114	Business Communication	Media of Communication, Oral Communication	Media of Communication, Oral Communication	Media of Communication, Oral Communication	Media of Communication, Oral Communication	CO1.Communicate effectively in real life situation. CO2.Distinguish among various levels of organizational





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							<p>communication and communication barriers while developing and understanding of Communication as a process in an organization. CO3. Demonstrate the use of basic and advanced business writing skills PO10. Communication: Able to use interpersonal skills and communicate effectively with the professionals and with society to convey technical information</p>
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							effectively and accurately and able to comprehend and write effective reports, design documentation, and make effective presentations.
UBCA 115	Principles and Practices of Management and Organizational Behaviour	Time Management, Leadership, Decision Making Environment	Time Management, Leadership, Decision Making Environment	Time Management, Leadership, Decision Making Environment	Time Management, Leadership, Decision Making Environment	Time Management, Leadership, Decision Making Environment	CO3: Justify the role of leadership qualities CO4: identify and Analyze the role of planning and decision making. CO5: Understand the nature of time management and time management strategies. PO7. Individual





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							and Team Work: Ability to work effectively as an individual, and as a member or leader as per need in, multidisciplinary teams.
	UBCA 116	Computer Laboratory I [Based on UBCA112]	Array, String, Function, Linked List Stack, Queue	Array, String, Function, Linked List Stack, Queue	Array, String, Function, Linked List Stack, Queue	Array, String, Function, Linked List Stack, Queue	CO4.Implement linear and nonlinear data structure CO5.Gain problem solving techniques by use of appropriate data types, control statements. CO6.Handle operations like searching, insertion, deletion, traversing mechanism etc. on various data





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							structures PO3. Design and Developme nt: Design and develop efficient solutions for complex real- world computing problems and design system component s or processes that meet the specified needs with appropriate considerati on for public health and safety and the cultural, societal, and environme ntal considerati ons.
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UBCA 117	Computer Laboratory II [Based on UBCA113]	DDL, DML Command, Stored Procedures, Stored Functions	DDL, DML Command, Stored Procedures, Stored Functions	DDL, DML Command, Stored Procedures, Stored Functions	DDL, DML Command, Stored Procedures, Stored Functions	DDL, DML Command, Stored Procedures, Stored Functions	CO1. Write SQL commands to create tables using Normalization concepts and indexes,







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			Cursor, Triggered	Cursor, Triggered	Cursor, Triggered	Cursor, Triggered	insert/update delete data and query data in a relational DBMS. CO2.Execute simple and nested queries CO3.Write procedures and functions. CO4.Underst ands use of trigger and cursor. PO3. Design and Developme nt: Design and develop efficient solutions for complex real- world computing problems and design system component s or processes
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							that meet the specified needs with appropriate consideration 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 interpretati
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							on of data, and synthesis of the information to arrive at valid conclusions .
	UBCA 121	Object Oriented Programming using C++	Concepts of OOP, Inheritance, Classes and Objects, Working with files	Concepts of OOP, Inheritance, Classes and Objects, Working with files	Concepts of OOP, Inheritance, Classes and Objects, Working with files	Concepts of OOP, Inheritance, Classes and Objects, Working with files	CO1.Understand and Object Oriented Programming concepts using the C++ language CO2.Describe the procedural and object-oriented paradigm with concepts of streams, classes, functions, data and objects. CO3.Understand the principles of data abstraction, inheritance, polymorphis





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							m. PO3. Design and Developme nt: Design and develop efficient solutions for complex real- world computing problems and design system component s or processes that meet the specified needs with appropriate considerati on for public health and safety and the cultural, societal, and environme ntal considerati ons.
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UBCA 122	Web Technology (HTML5, CSS3, JavaScript, jQuery)	HTML5, CSS3, JavaScript	HTML5, CSS3, JavaScript	HTML5, CSS3, JavaScript	HTML5, CSS3, JavaScript	HTML5, CSS3, JavaScript	CO1: Analyze the web page and identify its elements and attributes CO2: Create web pages





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							using HTML5 and CSS3. CO3: Build dynamic webpage by the use of JavaScript and jQuery. 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
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	UBCA 123	Software Engineeri ng	Analysis and Design Tools, Software Models, Testing & Maintena nce	Analysis and Design Tools, Software Models, Testing & Maintena nce	Analysis and Design Tools, Software Models, Testing & Maintena nce	Analysis and Design Tools, Software Models, Testing & Maintena nce	CO1:Apply the software engineering lifecycle by demonstratin g competence in communicati on, planning, analysis, design and deployment CO2: Understand the software engineering concepts. CO3: Learn and differentiate software development methodologi es. PO1. Knowledge : To understand and apply the fundamenta l principles, concepts, and methods in diverse
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							areas of computer science, computer applications, management, mathematics, statistics, etc.
	UBCA 124	Technical Report Writing	Structure and Layout, Planning and Preparation, Technical Communication, Report Writing	Structure and Layout, Planning and Preparation, Technical Communication, Report Writing	Structure and Layout, Planning and Preparation, Technical Communication, Report Writing	Structure and Layout, Planning and Preparation, Technical Communication, Report Writing	CO1: Produce a documentation plan, including estimates and schedules CO2: Design and structure a document by analyzing the readership and selecting the right information. CO3: Understand the basics of technical communication. PO8. Life-Long Learning: Recognize





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							the need and have the ability to engage in independent continuous reflective learning in the context of technological advancement. PO10. Communication: Able to use interpersonal skills and communicate effectively with the professionals and with society to convey technical information effectively and accurately and able to
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							comprehended and write effective reports, design documentation, and make effective presentations.
UBCA 125	Digital Marketing	Search Engine Optimization, Social Media Marketing	Search Engine Optimization, Social Media Marketing	Search Engine Optimization, Social Media Marketing	Search Engine Optimization, Social Media Marketing	Search Engine Optimization, Social Media Marketing	CO1. Identify and implement best practices in business for planning, decision making, problem solving and conflict management CO2. Explain why we get a huge list of webpages as a result of a search CO6. Develop and execute a marketing plan, resource planning,





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	UBCA 126	Computer Laboratory I [Based on UBCA121]	Inheritance, Function Overloading, file handling	Inheritance, Function Overloading, file handling	Inheritance, Function Overloading, file handling	Inheritance, Function Overloading, file handling	CO1.Develop applications for a range of problems using OOP's techniques. CO2.Able to develop programs with reusability.









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	UBCA 127	Computer Laboratory I [Based on UBCA12 2]	HTML5, CSS3, JavaScript	HTML5, CSS3, JavaScript	HTML5, CSS3, JavaScript	HTML5, CSS3, JavaScript	CO1.Implement the given HTML program. CO2.Able to create and apply CSS styling. CO3.Use JavaScript concept. CO4.Develop skills required for designing, developing web applications in web technology. CO5.To develop modern interactive web Applications using PHP, XML, HTML. PO3. Design and Development: Design and develop efficient solutions for
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							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. PO4. Conduct investigations of complex problems: Ability to research, analyze and
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	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	CO1: Know the different basic concepts of Java programming language. CO3: Develop Software in the Java programming language. PO3. Design and Development: Design and





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							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. PO4. Conduct investigations of complex problems:
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	UBCA 232A	PHP	Functions , Objects and Errors, MySQL Database	Functions , Objects and Errors, MySQL Database	Functions , Objects and Errors, MySQL Database	Functions , Objects and Errors, MySQL Database	CO1: Write PHP scripts to handle HTML forms. CO3: Create PHP programs that use various PHP library functions, and that manipulate





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							files and directories. CO4: Analyze and solve various database tasks using the PHP language 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
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							<p>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.</p>
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Cycle IV

2019 - 2024

	UBCA 232B	Node JS	Working in REPL ,Events	Working in REPL ,Events	Working in REPL ,Events	Working in REPL ,Events	CO1: To Understand Node JS and REPL terminal. CO3: Develop applications to handle events in Node JS. PO3. Design and Developme nt: Design and develop efficient solutions for complex real- world computing problems and design system component s or processes that meet the specified needs with appropriate considerati on for
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2019 - 2024

							conclusions
	UBCA 233	Python Program ming	Modules, Function	Modules, Function	Modules, Function	Modules, Function	CO2: To design and develop Python Applications. CO7. Develop, run and manipulate Python programs using Core data structures like Lists, Dictionaries, and use of Strings Handling methods PO3. Design and Development: Design and develop efficient solutions for complex real-world computing







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							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. PO4. Conduct investigations of complex problems: Ability to research, analyze and Investigate complex computing problems
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2019 - 2024

							through the design of experiments, analysis, and interpretation of data, and synthesis of the information to arrive at valid conclusions.
UBCA 234	Operating System Concepts	Introduction to Operating System, Memory Management, Basics of Linux, Scheduling Algorithms	Introduction to Operating System, Memory Management, Basics of Linux, Scheduling Algorithms	Introduction to Operating System, Memory Management, Basics of Linux, Scheduling Algorithms	Introduction to Operating System, Memory Management, Basics of Linux, Scheduling Algorithms	Introduction to Operating System, Memory Management, Basics of Linux, Scheduling Algorithms	CO2. Demonstrate the 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





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							the fundamenta l principles, concepts, and methods in diverse areas of computer science, computer applicatio s, managem ent, mathematic s, statistics, etc. PO2. Problem Analysis: Identify, analyse and formulate complex real-life computing problems. Attain substantiate d conclusions to solve the problems using fundamenta l
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2019 - 2024

							principles of computer science and application domains by using various tools and emerging technologies.
	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	CO1. Develop proficiency in using statistical tools and software. CO2. Apply mathematical and statistical techniques to analyze and interpret data. CO3. Apply knowledge of mathematics and statistics to solve real-





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							world problems. CO4. Demonstrate programming skills and the ability to use appropriate tools for statistical analysis. PO1. Knowledge : To understand and apply the fundamental principles, concepts, and methods in diverse areas of computer science, computer applications, management, mathematics, statistics, etc.
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	UBCA 236	Computer Laboratory I (Based on	Modules, Function, Applet, AWT and Swing	Modules, Function, Applet, AWT and Swing	Modules, Function, Applet, AWT and Swing	Modules, Function, Applet, AWT and Swing	CO1: Use of Appropriate Data Types, Control





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		UBCA23 1 & UBCA23 3)	Program ming	Program ming	Program ming	Program ming	Statements CO2: Write programs using String, List, Tuple, Dictionary, Set for Python Programmi ng CO6. Create dynamic web pages, using Servlets and JSP. CO7. Apply event handling on AWT and Swing component s. PO3. Design and Developme nt: Design and develop efficient solutions for complex real-
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UBCA 237	Computer Laboratory II (Based on UBCA232 & UBCA235)	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





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							PHP CO6: Appreciate and apply R- Programmi ng from statistical perspective PO3. Design and Developme nt: Design and develop efficient solutions for complex real- world computing problems and design system component s or processes that meet the specified needs with appropriate considerati on for public health and
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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 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
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							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 242A	Advanced 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	CO3: Students will be able to Analyze the construction of a web page and relate how PHP and XML combine to produce the web page. CO4: Students will be able to combine Ajax with





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							PHP. CO7. Students will able to develop interface a PHP script with a MySQL database 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
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	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 component
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							s or processes that meet the specified needs with appropriate consideration 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,
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							and interpretation of data, and synthesis of the information to arrive at valid conclusions .
	UBCA 243	Mathematical Foundation for Computer Applications	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





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							mathematical concepts such as sets relations and functions. CO3. Basic knowledge of set theory, functions, and relations concepts. PO1. Knowledge : To understand and apply the fundamental principles, concepts, and methods in diverse areas of computer science, computer applications, management, mathematics, statistics, etc.
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	UBCA 244	Software Testing and Automati on	Software Testing, Junit (TestNG)	Software Testing, Junit (TestNG)	Software Testing, Junit (TestNG)	Software Testing, Junit (TestNG)	CO1. Explain the fundamenta ls of software testing and





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							automation CO2. Analyze the design of test cases for different testing techniques. CO7. Understand and use software test automation tools. PO3. Design and Developme nt: Design and develop efficient solutions for complex real- world computing problems and design system component s or processes that meet the
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							specified needs with appropriate consideration 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
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	UBCA 245	Networking	Topologies, Network Types, TCP/IP Model, Transmission Media, IP Address and Routing	Topologies, Network Types, TCP/IP Model, Transmission Media, IP Address and Routing	Topologies, Network Types, TCP/IP Model, Transmission Media, IP Address and Routing	Topologies, Network Types, TCP/IP Model, Transmission Media, IP Address and Routing	CO1. Understand the major concepts involve in various types of computer networks (LAN, MAN, WAN) and technologies behind networks.







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							<p>CO2. Develop an understanding of modern network architecture from a design and performance.</p> <p>CO3. Discuss the importance of ISO reference model and TCP/IP Suite.</p> <p>CO4. Apply the knowledge of different network design and various logical models of networking to solve problems of communication over different transmission medium.</p>
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2019 - 2024

							<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 engage in independent continuous reflective learning in the context</p>
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Cycle IV

2019 - 2024

							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)	CO1: Learn to access database using JDBC in Java CO2: Develop Dynamic Web Pages using Servlet & JSP CO3: Develop client server applications using SOCKET Programming CO4. Understanding Selenium and TestNG tool to perform Automatio





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2019 - 2024

							n testing PO3. Design and Developme nt: Design and develop efficient solutions for complex real- world computing problems and design system component s or processes that meet the specified needs with appropriate considerati on for public health and safety and the cultural, societal, and environme ntal considerati ons.
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2019 - 2024

							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 247	Computer Laboratory II( Based on UBCA242 &	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 &





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		UBCA24 5)					XML. CO2. Design interactive programs using AJAX & PHP, XML. CO3. Design interactive website using Wordpress. CO4. Learn routing concepts along with protocols. CO5. Understand and develop various application s on packet tracer PO3. Design and Developme nt: Design and develop efficient solutions for
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							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. PO4. Conduct investigations of complex problems: Ability to research, analyze and
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							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 248	Project	Software Development	Software Development	Software Development	Software Development	Software Development	CO1. Understand programming









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							Learning: Recognize the need and have the ability to engage in independent continuous reflective learning in the context of technological advancement. PO9. Project Management: Understand and apply computing, management principles to manage projects.
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**COMMERCE**

Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				Pos, PSO's & Cos
		Local	National	Regional	Global	
UCFA 111	Financial Accounting I	Accounting Principles	conversion of partnership firm	Consignment Accounting Process and books maintains	Accounting standards	CO1.In dependent learning : Demonstrate the ability to acquire knowledge and business skills, the capacity for self-directed activity and the ability to work independently
UCED 111B	Entrepreneurship Development I	Entrepreneurship	Regional Imbalance	Regional Imbalance	Economic Deve	CO2.T his course





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		Development			lopment	will offer the fundamentals of starting and operating businesses. It will provide special opportunities for women entrepreneurs.
UCCP 111A	Consumer Protection and Business Ethics I	Problem of Consumer	Consumer Protection Act	Consumer and Consumer Movement	Voluntary Consumer Organization	CO2. This will help the students to make them aware about the concept of consumerism





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						and rights of consumer.
UCM S111A	Marketing And Salesmanship I	Principles of marketing salesmanship	Service marketing	Service marketing	International Marketing	CO3.C ommunication Skill: Able to communicate effectively, analyse the concepts and participate in healthy arguments and portray skill in communication and in writing . Possesses skills related with banking and other





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						business.
UCFA 121	Financial Accounting II	Accounting Records Skills	GST Accounting Records Procedures	Higher Purchase Accounting system	Accounting standards	3. Independent learning : Demonstrate the ability to acquire knowledge and business skills, the capacity for self-directed activity and the ability to work independently
UCED 121B	Entrepreneurship Development II	Women Entrepreneurs	Autobiography of Entrepreneurs	Women Entrepreneurs	Women Entrepreneurs	PO4. The students can understand





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2019 - 2024

						and the traits and qualities of entrepreneurs. It will provide special opportunities for women entrepreneurs.
UCCP 121A	Consumer Protection and Business Ethics II	Business Ethics	Corporate Social Responsibility	Current Issues of Business Ethics	Corporate Governance and Business Ethics	PO1.It would also enable the students about various laws related to consumer protection in India.
UCM S121A	Marketing And Salesmanship II	Rural Marketing	Digital Online marketing	Challenges of Marketing	International Marketing	CO2.In dependent learning :





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						Demonstrate the ability to acquire knowledge and business skills, the capacity for self-directed activity and the ability to work independently
COM BC23 01	Business Communications I	Basic Communication Skills	Oral Presentation Skills	Barriers to Communications	Soft Skills	PO2.C communication Skill: Able to communicate effectively, analyse the concepts and







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						participate in healthy arguments and portray skill in communication and in writing . Possesses skills related with banking and other businesses.
COM BC23 02	Corporate Accounting I	Company Final Account	Holding Company	Valuation of Shares	Accounting Standard	PO2.The course will help the students to get a thorough knowledge about corporate





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						accounting. It would also enable the students to know about application of accounting standards, concept of holding and subsidiary companies.
COM BM23 04	Business Management I	Bussiness Planning	Recent trends in Management	Performing management Functions	Understanding Global Business management challenges and	CO2.L leadership quality : Exhibit qualities associated with leadership such as





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2019 - 2024

					practi ces.	account ability , integrit y, respect , self- reflecti on
COM CL230 5	Elements of company Law I	Company Act	Incorporatio n of a Company	Capital of Company	Trans fer of Share s	CO2.T his Course help to getting the knowle dge of funda mental s of Compa ny Law, update the knowle dge of provisi ons of the Compa nies Act of 2013





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COM MM 2306A	Marketing Management I	Retail marketing, Elements of Marketing Management , Marketing Communication	Current Marketing Environment in India, Elements of Marketing Management , Marketing Communication	Current Marketing Environment in India, Elements of Marketing Management, Marketing Communication	Elem ents of Mark eting Mana gement, Mark eting Com muni cation	CO2.St udents will be demon strate the ability to acquire knowle dge and busines s skills the capacit y for self- directe d activity and the ability to work indepe ndently
COM CWA 2305B	Cost and Works Accounting I	Elements of cost	material Control	Tender and cotations	Just in time	CO2.In depend ent learnin g: Demon strate the ability to acquire





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2019 - 2024

						knowledge and business skills, the capacity for self-directed activity and the ability to work independently.
COM BC24 01	Business Communications II	Letter Writing	Report Writing	Business Correspondence	International Correspondence	CO3. This course will offer and understand the layout, essential qualities of business letters. The students can





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						come to know various types of businesses letters and drafting of these letters.
COM BC23 02	Corporate Accounting II	Inventory Accounting and Pay roll Accounting	Liquidation of company	Amalgamation and Absorption	Accounting for construction	CO2. The course will help the students to get knowledge about corporate accounting procedure such as reconstruction of companies, amalga





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2019 - 2024

						mation and absorption of companies.
COM MM 2306A	Business Management II	Motivation, Leadership, Co-ordination, Control	Motivation, Leadership, Co-ordination, Control	Motivation, Leadership, Co-ordination, Control	Motivation, Leadership, Co-ordination, 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 businesses





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						manag ement.
COM CL240 5	Elements of company Law II	Company Formation	Company Proceedings	Environment Issues.	Corp orate socia l Resp onsib ilities	CO2.C ommu nicatio n Skill: Able to commu nicate effecti vely, analyse the concep ts and partici pate in healthy argume nts and portray skill in commu nicatio n and in writing . Posses s skills related with bankin g and other busines s.







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COM MM 2406A	Marketing Management II	Marketing Environment and Marketing Segmentation, Green Marketing, marketing planning, Marketing Information System and marketing research	Marketing Environment and Marketing Segmentation, Green Marketing, marketing planning, Marketing Information System and marketing research, e- marketing	Marketing Environment and Marketing Segmentation, Green Marketing, marketing planning, Marketing Information System and marketing research, e- marketing	Marketing Environment and Marketing Segmentation, Green Marketing, marketing planning, Marketing Information System and marketing research, e- marketing	CO3.St udents will be demon strate the ability to acquire knowle dge and busines s skills the capacit y for self- directe d activity and the ability to work indepe ndently
COM CWA 2405B	Cost and Works Accounting II	Materiaial Accounting	Remuneratio n and Incentives	Inventory Control	Over heads	CO3.K nowled ge and Critical





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						Thinking: Acquire skills in organizing, analysing, evaluating and presenting information. Able to analyse issues logically, consider different options and viewpoints, make decisions and act with flexibility, adaptability and
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2019 - 2024

						creativity.
COM BRF3 501	Business Regulatory Framework I	Indian Contract Act	Partnership firm & LLP Procedures	Agencies , Sale of goods Act	Global Issues	CO3.Knowledge and Critical Thinking: Acquire skills in organizing, analysing, evaluating and presenting information. Able to analyse issues logically, consider different options and viewpoints, make





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						decisions and act with flexibility, adaptability and creativity.
COM AA35 02	Advanced Accounting I	Final Account of Banking Companies	Single Entry System	Ecommerce entity	Accounting Standards	CO3.Students will be demonstrate the ability to acquire knowledge to analysis issues logically, consider different options and viewpoints, make decisions





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COM A3504	Auditing	Audit Programme	verification and Valuation of Assets	Audit Report	Audit ing and Assu rance Stand ard	PO1.St udents will be demon strate the ability to acquire knowle dge and busines s skills, the capacit y for self- directe d activity and the ability to work indepe ndently .
COM MMM 3505 A	Marketing Management III	Rural Marketing Issues	Social Responsibilit ies	Marketing Issues	Glob al Mark eting Issue s	CO2.In depend ent learnin g : Demon strate the ability to





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						acquire knowledge and business skills, the capacity for self-directed activity and the ability to work independently
COM MMM 3506 A	Marketing Management IV	Advertisement	Trademark	Brand Management	E adver tisem ent	PO1.It would enable the students to acquaint the recent trends in the field of marketing.
COM CWA 3505 B	Cost and Works Accounting III	Accounting of Overhead	Absorption	Activity base Costing	Job costi ng	PO1.A acquire skills in organiz





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2019 - 2024

						ing, analysi ng, evaluat ing and present ing inform ation.
COM CWA 3506 B	Cost and Works Accounting IV	Marginal Costing	Budgetary Costing	Uniform Costing	MIS in Costi ng	CO2.It would enable the student s to acquai nt the recent trends in the field of costing .
COM BRF3 601	Business Regulatory Framework II	Geographica l Indications	Conssumers Complaints Issues	Trademark , copy Right Issues	Patent s Proce dures	PO3.K nowled ge and Critical Thinki ng: Acquir e skills in organiz ing, analysi ng, evaluat ing and





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2019 - 2024

						present ing inform ation. Able to analysi s issues logical ly, consid er differe nt options and viewpo ints, make decisio ns and act with flexibil ity, adapta bility and creativi ty.
COM BRF3 602	Advanced Accounting II	Final Account of Cooperative Society	GST	Ratio Analysis	Fore nsic Acco untin g	CO3.T his help student s to getting the knowle dge of







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2019 - 2024

						fundamentals of accounting and update the knowledge of provisions of the Maharashtra Cooperative Society Act of 1960
COM T3604	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	CO1.It will help students to get knowledge about Income Tax Act and also get away regarding provisions





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						on of residen tial status and inciden t of tax
COM MMM 3605 A	Marketing Management V	Agree Products	Social Responsibilit ies	Industrial Marketing Issues	Glob al Mark eting Issue s	CO3.In depend ent learnin g : Demon strate the ability to acquire knowle dge and busines s skills, the capacit y for self- directe d activity and the ability to work indepe ndently





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COM MMM 3606 A	Marketing Management VI	Marketing organization	Marketing Strategies	Marketing Regulation	Glob alizat ion	CO2.T his will help the student s to get in depth knowle dge of market ing and salesm anship and its applica tion in today's world.
COM CWA 3605 B	Cost and Works Accounting V	Contract costing	Process Costing	Service Costing	Lifec ycle Costi ng	CO2.A cquire skills in organiz ing, analysi ng, evaluat ing and present ing informa tion.
COM CWA 3606 B	Cost and Works Accounting VI	Standard Costing	Nonintegrate d Accounting	Cost Accounting Record Rules	Cost Audit	PO2.It would enable the student





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2019 - 2024

						s to acquaint the recent trends in the field of costing .
PCCO 111	Management Accounting	Application of Management Accounting	Ratio Analysis, Working Capital	Ratio Analysis, Working Capital	Ratio Analysis, Working Capital	PO3.T his will help the student s to get in-depth knowledge about Management Accounting and its importance.
PCCO 112	Strategic Management	Strategic Planning	Marketing Strategies	Development of Strategies	Implementation of Strategies at Global level	CO4.T he course will help the student s to get a thorough





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						gh knowle dge about strategi c manag ement.
PCCO 113	Advance Accounting	Accounting Principles	Accounting Standards	Accounting Standards	IFRS	CO2.T he course will help the student s to get deep knowle dge about basic accoun ting concep ts which are univers ally accepte d. He also aware about the accoun ting standar





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2019 - 2024

						ds used in India.
PCCO 114	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
PCCO 121	Financial Analysis and Control	Cost of Capital, Marginal Costing	Budget, Budgetary Control	Budget, Investment Decision	Budget, Investment Decision	CO2.T his will help the students to enable students to acquire





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						sound knowledge of Concepts, methods and techniques of management accounting
PCCO 122	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





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2019 - 2024

						structure of industries.
PCCO 123	Specialized Areas in Accounting	Accounting Standards	Accounting Standards	IFRS	IFRS	CO3.T he 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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PCCO 124	Business Tax Assessment and Planning	Assessment and Planning	GST	GST	GST	CO3.It would enable the student s to acquai nt the recent trends in the field of Busine ss Tax Assess ment and Planni ng.
COM BF530 1	Business Finance	Sources of Finance	Financial Planning	Working Capital Management	Equit y and Debt	CO3.St udents will underst and the charact eristics of differe nt financi al assets such as money market instru ments,





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						bonds, and stocks and how to buy and sell these assets in Capital Market s.
COM RMB5 302	Research Methodology for Business	Research methodology	Research methodology	Research methodology	Research methodology	CO2.T he course offers to the undergraduate student s to learn about the various applications of research methodology, role of research method





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						ology in the busines s.
COM AA53 03	Advanced Adducting	Auditing	Audit of Limited Companies	Corporate Governance	CIS Envir nmen t	PO3.T his course will enable student s about audit process and proced ure to be conduc ted in corpor ate sector. Course will also make them able to find out the frauds and errors which may occur in various





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						types of companies.
COM SAA5 304	Specialized Areas in Auditing	Audit of Bank, Audit of specialized units, Audit of cooperative societies, Government system of audit	Audit of Bank, Audit of specialized units, Audit of cooperative societies, Government system of audit	Audit of Bank, Audit of specialized units, Audit of cooperative societies, Government system of audit	Audit of Bank, Audit of specialized units, Audit of cooperative societies, Government system of audit	CO3.Students will be acquiring skills in organizing analyzing evaluating and presenting information skill
COM CMFS 5401	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 economic,





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					Regulatory Framework for Financial Services	my and organizational environment knowledge of ethics and ethical standard
COMI EE540 2	Industrial Economic Envorment	Industrializa tion	Economic Envirment	Industrial Pollution	Stand up and Start up	PO3.T his course will underst and the basic concep ts of Industr ial Financ e. It will develo p awareness regardi ng various industr ial and enviro nmenta l issues





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2019 - 2024

						in India.
COM RAAT A5403	Recent Advances In Accounting Taxation and Audit	Recent Trends in Accounting, Frauds and Errors	GST and Carben Credit	Accounting for Government and Non-government organization	Acco untin g and Audit Proce dure for Corp orate Affai rs	CO3.T his course will enable student s about recent trends in accoun ting, auditin g and taxatio n field. Course will also make them able to find out the frauds and errors which may occur in various sectors .





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PGDT L111	General Law Affecting Taxation	Hindu Succession Act 1956	e Indian Penal Code	Civil Procedure,	Infor matio n Tech nolog y Act 2005	CO3.T he course will provid e underst anding and workin g knowle dge of Indian Penal Code, Civil Proced ure, Right to Inform ation Act and Inform ation Techno logy Act.
PGDT L112	Income Tax	HEADS OF INCOME: SALARIES	CAPITAL GAINS AND OTHER SOURCES	ASSESSMENT OF COMPANIES AND FIRM:	RET URN , PEN ALTI ES & OFF	CO3.T he student s will acquire the knowle dge of





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					ENC ES:	various provisions of Income Tax Act, 1961. The course will impart the knowledge of the provisions of penalties, offences and prosecutions under IT Act.
PGDT L113	Goods & Services Tax	INTRODUC TION TO CGST	REGISTRA TION	TAX INVOICE, ACCOUNTS, RECORDS	Refu nd of integ rated tax	CO4.T he student s will acquire the knowle dge of various provisi ons of Goods &







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						Service s Tax Act, 2017. Studen ts will acquire practic al skills to work as tax consult ant, audit assista nt etc.
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	Settle ment of Case s,	CO2.T he student s will acquire the knowle dge of various provisi ons of Custo m Act. The course will develo p profess ional





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						skill among the student s to work as tax consultant, audit assista nt etc.
PGDT L115	Business Accounting Practices	Accounts for Non-Profit Organization :	Accounting for Hotel Industry	Goods and Services Tax Accounting	Com puter ized Acco untin g Envir onme nt:	CO3.T he student s will acquire the knowle dge of basic accoun ting proced ure. The course will impart the knowle dge of Accou nts for Non-Profit Organi zation.





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## Criteria I: Curricular Aspects

### 1.1 Curriculum Design and Development

1.1.1. Curricula developed and implemented have relevance to the local, regional, national, and global developmental needs, which is reflected in the Programme outcomes (POs) and Course Outcomes (COs) of the Programme offered by the institution (Qualitative Metrics)

(Mention file number which has syllabus) (Academic Year 2022-23)

Progra mme	Cours e 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. Sem. I	USBT 111	Diversity of Cryptoga ms	Conservat ion	Conservat ion	Conservat ion	Conservat ion	To conserve of cryptoga mic diversity.
	USBT 112	Industrial Botany - I	Entrepren eurs	Entrepren eurs	Entrepren eurs	Entrepren eurs	Develop ment of entrepren eurs and inculcate business oriented culture.
	USBT 113	Practical - I	Agro industries	Agro industries	Agro industries	Agro industries	Expertise in technolog ist and





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							biodiversity conservator.
F. Y. B.Sc. Sem. II	USBT 121	Diversity of Phanerogams	Taxonomist	Taxonomist	Taxonomist	Taxonomist	Development of plant taxonomists and expert in identification of local flora.
	USBT 122	Industrial Botany - II	Agro industries	Agro industries	Agro industries	Agro industries	Students can raise the small scale industries based on agro based products.
	USBT 123	Practical - II	Agro industries and fruit processing	Agro industries and fruit processing	Agro industries and fruit processing	Agro industries and fruit processing	Students can arise the small scale industries like biopesticides, biofertilizers and fruit processing.
M. Sc. I Sem. I	PSBT111	Plant	Conservation of	Conservation of	Conservation of	Conservation of	Create awareness





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		Systematics I	cryptogamic diversity	cryptogamic diversity	cryptogamic diversity	cryptogamic diversity	and need of conservation of Cryptogamic diversity
	PSBT112	Cell Biology	Cell biologist	Cell biologist	Cell biologist	Cell biologist	Expertise cell biological techniques.
	PSBT113	Genetics and plant Breeding	Expertise in Genetics and plant Breeding	Expertise in Genetics and plant Breeding	Expertise in Genetics and plant Breeding	Expertise in Genetics and plant Breeding	To develop skills in genetics and plant breeding
	PSBT114	Advanced Botanical techniques	Expertise in advanced Botanical techniques	Expertise in advanced Botanical techniques	Expertise in advanced Botanical techniques	Expertise in advanced Botanical techniques	Expertise in advanced Botanical techniques.
	PSBT115	Practical's based on PSBT11 and	Cryptogamist	Cryptogamist	Cryptogamist	Cryptogamist	Developed skilled Cryptogamist.





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2019 - 2024

		PSBT11 12					
	PSBT1 16	Practical's based on PSBT11 13 and PSBT11 14	Horticulture techniques	Horticulture techniques	Horticulture techniques	Horticulture techniques	Expertise in emasculation and pollination methods
M. Sc. I Sem. II	PSBT2 11	Plant Systematics II	Conservation of Cryptogamic diversity	Conservation of Cryptogamic diversity	Conservation of Cryptogamic diversity	Conservation of Cryptogamic diversity	Expert in cryptogams useful to conserve Cryptogamic diversity
	PSBT2 12	Cell Biology	Plant physiologist and biochemist	Plant physiologist and biochemist	Plant physiologist and biochemist	Plant physiologist and biochemist	Development of expertise in plant physiology and biochemistry.
	PSBT2 13	Molecular Biology & Genetic Engineering	Expertise in molecular techniques	Expertise in molecular techniques	Expertise in molecular techniques	Expertise in molecular techniques	Experts required in future for genetic library of plants





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	PSBT 214	Plant Ecology and Biodiversity	Environmental issues	Environmental issues	Environmental issues	Environmental issues	Appreciate the ethical, cross-cultural and historical context of environmental issues and the links between human and natural systems.
	PSBT 215	Practicals based on PSBT 211 and PSBT 212	Physiological and biochemical techniques	Physiological and biochemical techniques	Physiological and biochemical techniques	Physiological and biochemical techniques	Appreciate the ethical, cross-cultural and historical context of environmental issues and the links between human and natural systems.
	PSBT 216	Practicals based on PSBT 213 and	Molecular biologist and ecologists	Molecular biologist and ecologists	Molecular biologist and ecologists	Molecular biologist and ecologists	Skilled molecular biologist and





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		PSBT 214					ecologists can help to solve the critical problems related with plant diseases and improvement of characteristics of plants.
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2019 - 2024

## 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)	UCSCO 111	Basic Programming using C	C Tokens	C Tokens	C Tokens	C Tokens	1) CO1: Explore algorithmic approaches to problem solving. 2)CO2: Develop programs using control structures and arrays in 'C'





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Cycle IV

2019 - 2024

	UCSCO 122	DBMS-II	Relatio nal Data Model	Relationa l Data Model	Relationa l Data Model		1) PSO2: Design, correctly implement and document solutions to significant Computati onal problems. 2) CO7: Additionall y, using a database managemen t system, students will be able to construct, assess, and design real database applicatio ns.
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2019 - 2024

	UCSCO 121	Advanced Programm ing Using C	Nested macro		Nested macro		1)CO1: Develop programs using control structures, pointers, strings, structures and files in 'C'. 2)CO2:Desi gn and develop solutions to real world problems using C.
M.Sc. (Comp uter Science ) (PG)	PSCS1 12	Cryptograp hy and Cyber Forensics	Introducti on to Cyber Forensics, Types of Computer Forensics Systems	Introduct ion to Cyber Forensics , Types of Compute r Forensics Systems	Introduct ion to Cyber Forensics , Types of Compute r Forensics Systems	Introducti on to Cyber Forensics, Types of Computer Forensics Systems	1)CO2: In future these experts will be an asset to this country for serving in the fields of informatio n security and digital forensics. 2)CO4: Analyse and evaluate the cyber





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2019 - 2024

							security needs of an organization.
PSCS1 16	Lab Course on Dot Net, PPL,DBT& DAA (C)	Querying documents in NoSQL	Querying documents in NoSQL			Querying documents in NoSQL	PO2: To prepare necessary knowledge base for development in Computer Science.
PSCS1 23	Emerging Technologies - Python Programming – I(Basic) (C)	Mail and Scheduler	Mail and Scheduler	Mail and Scheduler	Mail and Scheduler	Mail and Scheduler	1) CO1: Students will understand all the important and beneficial concepts of Python Programming. 2) CO2: Students will learn Practical implementation of Python Programming concepts Units Title and Contents.





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2019 - 2024

PSCS1 24	Dot Net (Advanced) (C)	validation in ASP.NET	validatio n in ASP.NE T	validatio n in ASP.NE T		1)CO1: Ability to write the Web application using ASP.Net Core MVC. 2)CO2: Able to code different web-based applicatio s.
PSCS1 25	Lab Course on Dot Net, DIP and DM&DW( C)	MVC Basic Programs	MVC Basic Programs	MVC Basic Programs	MVC Basic Programs	1)CO1: Students will understand all the important and beneficial concepts of Python and Dot Net Programmi ng. 2) CO2: Students will learn Practical implement ation of Python and Dot Net





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2019 - 2024

							Programmi ng.
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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)	USES 111	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.
	USES 112	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



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Cycle IV

2019 - 2024

							discipline in environment science.
	USES 113	Practical based on USES111 and USES112	Lab safety rules	-	-	-	CO1: Students will be able to understand the basics of lab safety rules. PO1: Understand the knowledge about Environmental problems and their solutions.
F.Y.B.Sc. (Sem-II)	USES 121	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







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2019 - 2024

							and remote sensing.
	USES 122	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.
	USES 123	Practical based on USES121 and USES 122	Food adulterant and their human health effect	Food adulterant and their human health effect	Food adulterant and their human health effect	Food adulterant and their human health effect	CO1: Students will be able to understand sustainable use of healthy food.
S.Y.B.Sc. (Sem-III)	EVS 2301	Natural resources	resources	resources	resources	resources	CO1: Students will be able to understand





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2019 - 2024

							future sustainability of natural resources. PO1: learn basic resources natural, forest, Grasslands
	EVS 2302	Environmental pollution and control-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
	EVS 2303	Practical based on EVS 2301 and EVS 2302	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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2019 - 2024

							soil erosion and flood hazard.
S.Y.B.Sc. (Sem-IV)	EVS 2401	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.
	EVS 2402	Environmental pollution and control-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





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2019 - 2024

							and its impacts to environmental quality.
	EVS 2403	Practical based on EVS 2401 and EVS 2402	Total chlorophyll of plant	Total chlorophyll of plant	Total chlorophyll of plant	Total chlorophyll of plant	CO1: Students will learn to identify impacts of pollutant on plants.
T.Y.B.Sc. (Sem-V)	EVS 3501	Ecosystem management	Terrestrial and aquatic ecosystem management	Terrestrial and aquatic ecosystem management	Terrestrial and aquatic ecosystem management	Terrestrial and aquatic ecosystem management	CO1: Students will be aware about Terrestrial and aquatic ecosystem management. PO1: learn terrestrial ecosystem and its detailed classification.
	EVS 3502	Wildlife Biology	Threats to Wildlife biodiversity	Threats to Wildlife biodiversity	Threats to Wildlife biodiversity	Threats to Wildlife biodiversity	CO1: To protect the remaining population of endangered species by banning hunting, giving legal





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2019 - 2024

							protection to their habitat and finally, 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	Awareness about nature	Awareness about nature	Awareness about nature	CO1: Students aware about





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			conservation	conservation	conservation	conservation	nature conservation methods and their international and 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





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							biotechnology and used to control the environmental pollution. PO1: understood composting, vermicomposting and biofuel.
	EVS 3507	Practical based on EVS 3501 and EVS 3502	Vegetation by Belt/Line method	-	-	-	CO1: Students will be expert to conclude the significance of biological experiments. PO1: aware the students about environmental laws and ethics.
	EVS 3508	Practical based on EVS 3503 and	Lapse rate, Simple wind	-	-	-	CO1: To understand interpretation of





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2019 - 2024

		EVS 3504	rose, compound wind rose diagram and climograph				meteorological parameters.
	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







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2019 - 2024

							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 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





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2019 - 2024

							without jeopardizing the integrity and stability of natural system, ensuring a safer future for future generation. 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





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							change in positive or negative manner. PO1: Understand basic concepts of probability.
	EVS 3605	Environmental Risk and Assessment Management	Risk Management				CO1: Students will aware about to identify risk at an early stage and take the necessary steps to measures to mitigate its harmful effects.
	EVS 3606	Environmental Economics And Audit	Rural planning and development	Rural planning and development	Rural planning and development	Rural planning and development	CO1: Students will acquire knowledge about to achieve rural development through the allocation and management of





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2019 - 2024

							resources, mediated by developmentalist configuration and local communities
	EVS 3607	Practical based on EVS 3601 to EVS 3603	Sustainable farming practices, green Building	Sustainable farming practices, green Building	Sustainable farming practices, green Building	Sustainable farming practices, green Building	CO1: Students will reduce their reliance on non 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	Fire alarm systems	Fire alarm systems	Fire alarm systems	Fire alarm systems	CO1: Students will understand how safety system





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2019 - 2024

		EVS 3606					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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2019 - 2024

## 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	MA T 2301	Multivariable Calculus I	Environmental science and resource management	National infrastructure and transportation planning	Economic policy and analysis	Global economic system and trade	<b>CO1:</b> Learning multivariable calculus will develop skills of students to solve complex problems in mathematics and science. <b>PO1: Disciplinary Knowledge :</b> Demonstrate comprehensive knowledge of the disciplines that form a part of a graduate programme. Execute strong





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2019 - 2024

							theoretical and practical understanding generated from the specific graduate programme in the area of work.
B.Sc. (Mathematics) UG	MA T 2302	Laplace Transform and Fourier Series	Signal processing and communication system	Medical imaging and healthcare technology	Energy and power system	Climate modeling	<p><b>CO1:</b> Able to solve differential equations using Laplace Transform and to calculate Fourier Series of functions.</p> <p><b>PO1: Disciplinary Knowledge :</b> Demonstrate comprehensive knowledge of the disciplines that form a part of a</p>





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							graduate programme. Execute strong theoretical and practical understanding generated from the specific graduate programme in the area of work.
B.Sc. (Mathematics) UG	MA T 2402	Multivariable Calculus I	Electrical engineering and power distribution	National defense and aerospace engineering	Natural resource management	Satellite communication and space exploration	<p><b>CO1:</b> Student will be able to solve problems in integration which are critical in some science subjects.</p> <p><b>CO2:</b> Student will enhance ability of problem solving and will improve analytical thinking.</p>







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2019 - 2024

							<b>PO1: Disciplinary Knowledge :</b> 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	MA T 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 Management	<b>CO2:</b> Identify the appropriate method to solve non-homogeneous





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2019 - 2024

							<p>differential equation.</p> <p><b>PO8: Environment and Sustainability:</b> Understand the impact of the scientific solutions in societal and environmental contexts and demonstrate the knowledge of and need for sustainable development.</p>
B.Sc. (Mathematics) UG	MA T 3505	Operations Research	Linear Programming Model, Transportation Model, Assignment Model	Linear Programming Model, Transportation Model, Assignment Model	Linear Programming Model, Transportation Model, Assignment Model	Linear Programming Model, Transportation Model, Assignment Model	<p><b>CO1:</b> Model the decision making problems by using LP techniques.</p> <p><b>PO2: Critical Thinking and Problem solving:</b> Exhibit the</p>





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2019 - 2024

							skills of analysis, inference, interpretation and problem-solving by observing the situation closely and design the solutions.
B.Sc. (Mathematics) UG	MA T 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 Impact Assessments	Oceanography and sea level rise, Tsunami and natural disaster simulation	<p><b>CO1:</b> Student will be able to classify the partial differential equation. Identify methods and implement on solving Pfaffian differential equations.</p> <p><b>PO8: Environment and Sustainability:</b> Understand the impact of the scientific solutions in</p>





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							societal and environmental contexts and demonstrate the knowledge of and need for sustainable development.
B.Sc. (Mathematics) UG	MA T 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><b>CO1:</b> Develop mathematical models associated with network flows and related real life applications</p> <p><b>CO2:</b> Should find Nash equilibrium in mixed strategies in games <math>2 \times 2</math> and <math>2 \times N</math>.</p> <p><b>CO3:</b> Knows Lagrange multipliers method for solving</p>





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							problems on finding extremum. <b>PO2: Critical Thinking and Problem solving:</b> Exhibit the skills of analysis, inference, interpretation and problem-solving by observing the situation closely and design the solutions.
M.Sc. (Mathematics) PG	PSM T 115	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	<b>CO1:</b> Student will be able to find the complete solution of a nonhomogeneous differential equations as a linear combination of complemen





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							<p>tary function and a particular solution.</p> <p><b>CO2:</b> 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><b>PO8: Environment and Sustainability:</b> Understand the impact of the scientific solutions in societal and environmen</p>
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							tal contexts and demonstrate the knowledge of and need for sustainable development.
M.Sc. (Mathematics) PG	PSM T 124	Linear Algebra	Statistics and data analysis for local research	National economic planning	Environmental studies	Global supply chain management	<p><b>CO1:</b> matrix representation of vector spaces, properties of vector spaces and their applications in real world.</p> <p><b>PO1: Disciplinary Knowledge :</b> Demonstrate comprehensive knowledge of the disciplines that form a part of a postgraduate</p>





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							programme. Execute strong theoretical and practical understanding generated from the specific programme in the area of work.
M.Sc. (Mathematics) PG	PSMT 125	Partial Differential Equations	Heat Transfer, Groundwater flow, Traffic flow in complex road system	Energy distribution and grid optimization, Natural Disaster Prediction and Response	Environmental Impact Assessments	Oceanography and sea level rise, Tsunami and natural disaster simulation	<p><b>CO1:</b> Solving of PDE and finding their applications.</p> <p><b>PO8: Environment and Sustainability:</b> Understand the impact of the scientific solutions in societal and environmental contexts and demonstrate the knowledge</p>







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							of and need for sustainable development.
M.Sc. (Mathematics) PG	MA T 5304	Graph Theory	Social network analysis	National security and defense planning	Cybersecurity and network security	Global transportation and logistics network	<p><b>CO1:</b> Student will be able to apply principles and concepts of graph theory in practical situations.</p> <p><b>PO2: Critical Thinking and Problem solving:</b> Exhibit the skill of critical thinking and understand scientific texts and place scientific statements and themes in contexts and also evaluate them in</p>





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							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	MA T 5305	Applied Mathematics I	Promoting scientific inquiry in education	Contribution to space exploration and technology	Regional observatories and science centers	Contribution to astrophysics and cosmology	<b>CO1:</b> Student will be able to understand various celestial phenomenon, like rising and setting of stars, motion of sun, twilight, dip of horizon and effects of refraction on the





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							observation of stars and planets in the sky. <b>PO4:</b> <b>Research-related skills and Scientific temper:</b> 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
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							creating awareness about intellectual property rights and issues of plagiarism.
M.Sc. (Mathematics) PG	MA T 5403	Fourier Analysis	Signal processing and communication system	National healthcare and medical technology	Manufacturing and industrial processes	Global environmental and climate studies	<p><b>CO1:</b> 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><b>PO5: Trans-disciplinary knowledge:</b> Create new conceptual, theoretical and methodological understanding that</p>





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							integrates and transcends beyond discipline-specific approaches to address a common problem.
M.Sc. (Mathematics) PG	MA T 5405	Applied Mathematics II	Promoting scientific inquiry in education	Contribution to space exploration and technology	Regional observatories and science centers	Contribution to astrophysics and cosmology	<p><b>CO1:</b> Student will be able to understand Kepler's law, interior and superior planets, satellite, sidereal time and elongation of planet.</p> <p><b>PO4: Research-related skills and Scientific temper:</b> Infer scientific literature, build a sense of enquiry and able to formulate</p>





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M.Sc. (Mathematics) PG	MA T 5406	Project	Problem-solving and critical thinking	Advancing mathematical knowledge and innovation	Promoting scientific inquiry and curiosity	Promoting international scientific collaboration	<b>PO4: Research-related skills and Scientific temper:</b> Infer scientific literature, build a





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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.
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## MICRPBIOLOGY

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.BSc.	USMB111	(Theory) Introduction to Microbiology I	<b>Unit 2 :</b> Applications of Microbiology with special reference to: Significance of normal flora and probiotics in human health			<b>Unit 1:</b> Scope of Microbiology: a) Industrial Microbiology and Biotechnology b) Medical Microbiology c) Immunology d) Microbial Genetics e) Geomicrobiology f) Food and Dairy Microbiology g) Nano-Biotechnology	<b>CO:1</b> To cater the needs of students for building up knowledge in the basics of Microbiology.
F.Y.BSc.	USMB112	(Theory) Basic Techniques In Microbiology I	<b>Unit 3 :</b> Characteristics of an ideal Disinfectant Checking of Efficiency of Disinfectant – Phenol			<b>Unit 2 :</b> Microscopy a) Structure, working and ray diagram of : i. Bright Field Microscopy ii. Dark Field Microscopy	<b>CO:2</b> To understand the scope and applications of microbes in different industrial sectors.







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			Coefficient				
F.Y.BSc.	USMB113	(Practical) Practical Course I	<b>Exot no. 1</b> Principle & Standard Operating Procedures (SOP) for common microbiology laboratory instruments e.g. Incubator, Hot Air Oven, Autoclave, Colorimeter, pH Meter, Laminar air flow hood, Centrifuge			Observation of Microorganisms using bright field microscope – Bacteria, Protozoa, Molds and Yeasts, Algae – from natural habitat	<b>CO:3</b> To understand the historical developments in the microbiology field.
F.Y.BSc.	USMB121	Introduction to Microbiology II (Theory)				<b>Unit 1 : Bacterial Cytology</b> Structure, chemical composition and functions of the following: a) Flagella (Gram-positive and Gram-negative)	<b>CO:1</b> The major outcome is the understanding of different fields and sectors of microbiology





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						and types of motility (spirochetal and gliding)	ogy and their importance in relation to the environment.
F.Y.BSc.	USMB122	(Theory) Basic Techniques in Microbiology II				<b>Unit 3</b> : Isolation and Preservation a) Isolation of bacteria by - i. Streak Plate Method ii. Spread Plate Method iii. Pour Plate Method	<b>CO:2</b> Understanding of role of microbes in environment.
F.Y.BSc.	USMB123	(Practical) Practical Course II	<b>Expt No. 9.</b> Study the effect of soap and disinfectant on skin microflora <b>Expt no.7</b> Checking sterilization efficiency of autoclave using a biological indicator			<b>Cultivation of microorganisms</b> : a) Preparation of simple laboratory media (solid and liquid) (Nutrient Broth & Agar, MacConkey's Broth & Agar & Potato Dextrose Broth & Agar)	<b>CO:3</b> Students shall earn the knowledge of designing of simple experiments through historical background





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S.Y.BSc.	MICRO2301	(Theory) Bacterial Systematics and Physiology	<b>Bacterial physiology</b> a. Definition of metabolism, catabolism, anabolism, respiration and fermentation				<b>CO:1</b> Students will learn, how synthesis of ATP take place in cell. <b>CO:2</b> Student will understand the nature and role of metabolic reaction





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							in cell growth .
S.Y.BSc.	MICRO2302	Theory) Industrial and Soil Microbiology	<b>D)Soil microbiology</b> Role of microorganisms in composting				<b>CO:1</b> To understand the basic idea of designing of fermenter. <b>CO:2</b> To get acquainted with the constituents of fermentation media
S.Y.BSc.	MICRO2304	(Practical) Practical course based on MICR O2301 and MICR O2302				<b>Expt 1</b> A)Absorbance measurement for bacterial culture b)Growth curve plotting by using computer software	<b>CO:1</b> To impart the basic skill for biochemical identification of organisms <b>CO:2</b> To get idea about the air flora





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S.Y.BSc.	MICRO2401	(Theory) Air and Water Microbiology	<b>Air flora:</b> Transient nature of air flora Droplet, droplet nuclei, and aerosols			Air pollution: Chemical pollutants, their sources in air and effects on human health.	<b>CO:1</b> Students can analyse microflora of air and water and its methods of enumeration of bacteria
S.Y.BSc.	MICRO2402	(Theory) Bacterial Genetics	Prokaryotic genome organization. Comparative account of different forms of DNA.			Prokaryotic genome organization. Comparative account of different forms of DNA.	<b>CO:1</b> Students can analyse the basic concepts code, DNA replication etc.
S.Y.BSc.	MICRO2403	(Practical) Practical course based on MICR O2401 and MICR O2402	Air sampling using an air sampler & calculation of air flora from different locations with the knowledge of respective			Air sampling using an air sampler & calculation of air flora from different locations with the knowledge of respective standards of bacterial & fungal counts.	<b>CO:1</b> Students would know the methods of enumeration of bacteria of water, potability of water and air their





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			standards of bacterial & fungal counts.				application.
T.Y.BSc.	MICR O3501	(Theory) Medical Microbiology-I	<b>Epidemiology:</b> b. Disease distribution based on time, place and person				<b>CO:1</b> Build up progressive and successful career <b>CO:2</b> Apply knowledge of various methods to control diseases
T.Y.BSc.	MICR O3502	(Theory) Genetics and Molecular Biology- I				DNA damage and Repair mechanisms and Bacteriophage growth kinetics <b>Chapter 5:</b> DNA damage and Repair mechanisms	<b>CO:1</b> Understand the genome organization in prokaryotic cell and eukaryotic cell <b>CO:2</b> Learn the molecular mechanism involved







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						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	<b>Unit 3:</b> 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	<b>CO:1</b> Theoretical understanding of principles and basic protocols of industrial processes. <b>CO:2</b> Laboratory exercises shall help the students to directly work in different divisions of industries.
T.Y.BSc.	MICRO3506	(Theory) Food And Dairy Microbiology	Preservation of milk by pasteurization and its storage: • Methods of Pasteurization			Preservation of milk by pasteurization and its storage: • Methods of Pasteurization – LTH,	<b>CO:1</b> Students will learn about various methods regarding milk and milk product as







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			ion – LTH, HTST, UHT • Storage specifications after pasteurization • Phosphate test and its significance			HTST, UHT • Storage specifications after pasteurization • Phosphate test and its significance	well as food sanitation and regulation <b>CO:2</b> Students will learn the concepts of applied microbiology
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)	<b>CO:1</b> To help students build-up a progressive and successful career
T.Y.BSc.	MICRO3508	(Practical Course II)	Clinical Biochemistry -			Clinical Biochemistry -	<b>CO:1</b> Students will use current





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		Biochemistry	Estimations of: blood sugar, blood urea, serum cholesterol, serum proteins and albumin.			Estimations of: blood sugar, blood urea, serum cholesterol, serum proteins and albumin.	biochemical and molecular techniques to plan and carry out experiments
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	<b>CO:1</b> This course provides learning opportunities in medical microbiology
T.Y.BSc.	MICRO3601	(Theory) Medical Microbiology-II	<b>Unit 1.</b> Introduction to Chemotherapy: a. Desirable parameters of good chemotherapeutic agent (Selective toxicity, Bioavailability of Drug, MIC, MBC, LD-			<b>Unit 1.</b> Introduction to Chemotherapy: a. Desirable parameters of good chemotherapeutic agent (Selective toxicity, Bioavailability of Drug, MIC, MBC, LD-50 value) b.	<b>CO:1</b> Build up progressive and successful career. <b>CO:2</b> Apply the knowledge to identify and diagnose pathogenic microorganisms <b>CO:3</b> Understands different





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			50 value) b. Routes of drug administration			Routes of drug administration	mechanisms of chemotherapeutic agents to control diseases & pathogens
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	<b>CO:1</b> Understand the different mode of gene transfer in prokaryotic cell <b>CO:2</b> Understand the concept of recombination <b>CO:3</b> Use the recombination for gene mapping.
T.Y.BSc.	MICRO3603	(Theory) Metabolism				Biosynthesis and Degradation : <b>Unit1:</b> Chemistry, concept of polymerization of Macromolecules: i. Polysaccharides.	<b>CO:1</b> Students will learn about Structure and function of cell membrane <b>CO:2</b> To understand function of specific





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					(Starch, Glycogen) ii. Lipids(Fatty acids, triglycerides and phospholipids)	anabolic and catabolic pathways
T.Y.BSc.	MICRO3604	(Theory) Immunology – II			<b>Unit 1:</b> 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)	<b>CO:1</b> Theoretical understanding of basic immunological processes. <b>CO:2</b> Each student would be able to understand immune mechanism of our body.
T.Y.BSc.	MICRO3605	(Theory) Fermentation			ses of following secondary metabolites	<b>CO:1</b> Theoretical understanding of





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		Technology-II				and their large scale production (with respect to microbial producers, production process & recovery, and flowsheet): a. Ethanol b. Alcoholic beverages (Beer & Wine) c. Antibiotics (Penicillin & Streptomycin)	principles and basic protocols of large-scale industrial production processes. <b>CO:2</b> Laboratory exercises shall help the students to directly work in different divisions
T.Y.BSc.	MICRO3606	(Theory) Agricultural And Environmental Microbiology	<b>UNIT 1.</b> Plant growth improvement with respect to: a. Disease resistance b. Environmental tolerance				<b>CO:1</b> Acquaintance about plants mechanism for disease resistance will improve. <b>CO:2</b> Understanding different techniques in agriculture to control diseases in plant.





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T.Y.BSc.	MICRO3 607	(Practical Course IV) Biochemistry and Molecular Biology	Enzyme Purification: b. i. Precipitation of amylase from fermentation broth				<b>CO:1</b> Students will learn about different techniques in Molecular biology & Biochemistry
T.Y.BSc.	MICRO3 608	(Practical Course V) Hematology and Diagnostic Immunology	Study of permanent slides of following microbial pathogens: a. Entamoeba histolytica b. Giardia spp. c. Plasmodium spp. d. Mycobacterium (tuberculosis and leprae)			Study of permanent slides of following microbial pathogens: a. Entamoeba histolytica b. Giardia spp. c. Plasmodium spp. d. Mycobacterium (tuberculosis and leprae)	<b>CO:1</b> Students will learn about different techniques in Hematology and Diagnostic Immunology
M.Sc. I	PSMB11 1	Microbial Systematics and Diversity				<b>UNIT 3: Exploration of Unculturable bacteria</b> Methods of extracting total bacterial DNA from a habitat and	<b>CO:1</b> Acquire basic skills on bioinformatics tools to study the taxonomy <b>CO:2</b> Introduce the concepts of application





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						metagenom e analysis. Approaches to identify Culture - NGS (Next generation Sequence)	and research in Microbiology
I	PSMB11 2	Quantitative Biology	Importance of statistics in Biology • Samples and Population • Types of data • Random sampling methods and sampling errors • Scales and Variables • Collection and organizatio n of data			Importance of statistics in Biology • Samples and Population • Types of data • Random sampling methods and sampling errors • Scales and Variables • Collection and organization of data	<b>CO:1</b> Students should be able to apply descriptive and inferential statistics on the data collected during research work.
	PSMB11 3	Biochemistr y				<b>UNIT 3:</b> Protein Chemistry Tertiary and Quaternary structures of proteins, (Myoglobin &	<b>CO:1</b> Students will be able to demonstrate an understandin g of fundamental biochemical principles,





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						Hemoglobin )	metabolic pathways and the regulation of biochemical processes
	PSMB11 4	Cell Biology				Cell signalling in eukaryotic systems Introduction of cell signalling and, importance of cell signalling • Mode of signalling- autocrine, paracrine, endocrine, juxtacrine signalling, Receptor: 1) Nuclear receptor, 2) Cell surface receptor: Ion channel receptor G protein coupled receptor Enzyme coupled receptor	<b>CO:1</b> Use and apply those facts, concepts, and principles appropriately, even in situations that you have not previously encountered.







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PSMB11 5	Practical Course: Microbial Systematics	1) Isolation of bacteria from natural samples. 2) Isolation of fungi from natural samples. 3) Isolation of extremophi les from natural samples.				<b>CO:1</b> Students will learn different isolation techniques used for isolation of organisms from their natural habitat.
PSMB11 6	Practical Course: Cell biology and Biochemistr y	Good laboratory practices and cell biology Good laboratory practices: Laboratory safety, hazard from chemicals, handling of chemicals, disposal of chemicals and cultures, recording of scientific				<b>CO:1</b> Students should be able to apply basic principles of chemistry to biological system





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			<p>experiment s.</p> <p>Standardization of laboratory procedures</p> <ul style="list-style-type: none"> <li>• Calibration and validation instruments (pH meter, spectrophotometer).</li> <li>• preparing/desiging SOP for the instrument</li> </ul>				
II	PSMB121	Virology				<p>Replication of viruses •</p> <p>Mechanism of virus attachment •</p> <p>Entry into host cell •</p> <p>Uncoating of viral genome •</p> <p>Transcription strategies for RNA genome &amp; DNA genome •</p> <p>Genome replication - RNA</p>	<p><b>CO:1</b></p> <p>Student will understand principles of virus pathogenesis</p>





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						replication, DNA replication	
	PSMB12 2	Instrumentat ion	1)Chromat ography Gel filtration chromatogr aphy • Ion- exchange Chromatog raphy • Affinity chromatogr aphy • Gas chromatogr aphy • High Performan ce Liquid Chromatog raphy 2)Spectros copy			Chromatogr aphy Gel filtration chromatogr aphy • Ion- exchange Chromatogr aphy • Affinity chromatogr aphy • Gas chromatogr aphy • High Performanc e Liquid Chromatogr aphy 2)Spectrosc opy	<b>CO:1</b> The student should be able to apply the knowledge regarding various separation techniques while purifying a biomolecule.
	PSMB12 3	Metabolism	Concept of anaerobic respiration • Concept of Assimilatio n and Dissimilati ve metabolis m			Concept of anaerobic respiration • Concept of Assimilatio n and Dissimilativ e metabolism	<b>CO:1</b> Enrich students' knowledge and train them in the pure microbial sciences
	PSMB12 4	Evolution and Ecology	Concept of ecosystem • Trophic				<b>CO:1</b> Students will be equipped





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			structure of ecosystem • Types of ecosystems			to understand the evolutionary background and its importance.
	PSMB12 5	Practical Course: Biophysics & Virology			Qualitative and quantitative detection of bacteriophage • Animal virus titration by Hemagglutination inhibition test	<b>CO:1</b> Students will learn process of gel filtration chromatography <b>CO:2</b> Students will learn and practice different methods used for isolation of viruses
	PSMB12 6	Practical Course: Enzymology & Microbial Metabolism	Plant Growth Promoting Rhizobacteria			<b>CO:1</b> Students will be able to Understand kinetics of enzymes <b>CO:2</b> Students will learn to isolate Nitrogen fixers and detect secondary metabolites





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	CCPSM B121	Research Methodolog y	Philosophi cal foundation of research Understand ing research publication s				<b>CO:1</b> Students will able to Understand philosophy and ethics of research <b>CO:2</b> Students should be able to write research proposal.
M.SC. II	MICRO5 301	Immunology				In vitro systems Quantificati on of cytokines (ELISPOT assay), functional assays for phagocytes and cytokines (cytotoxicit y and growth assays) • In vivo systems – Experiment al animals in immunolog y research (Inbred animal strains,	<b>CO:1</b> Students will be able to describe immunologic al response and how it is triggered and regulated.





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						Knockout mice, transgenic animals, Knock in technology), Animal models for autoimmunity and AIDS.	
	MICRO5302	Molecular Biology I				Tools in molecular biology Activity gel assay, ChIP,, Designing probe, Detection of DNA binding proteins, DMS footprinting, DNA helicase assay, Epitope tagging, Sequence tagged sites, Filter binding assay, Protein footprinting,	<b>CO:1</b> students will understand principle and techniques of molecular biology.





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MICRO5 303	Industrial Waste Water Treatment	Pre- treatment & Primary treatment process (Unit Processes) Flow equalizatio n • Screening • Flocculatio n • Flotation • Granular medium filtration				<b>CO:1</b> Students will understand waste water treatment processes of different industries.
MICRO5 304	Biophysical Techniques				Tools of Bioinformat ics (FASTA, BLAST, BLAT), databases (GENBAN K, PDB, OMIM ) and software (RASMOL, Ligand Explorer).	<b>CO:1</b> To learn different techniques of biophysics.
MICRO5 305	Practical Course: Practical course based on	Antigen- Antibody Interactions Agglutinatio n			Antigen- Antibody Interactions Agglutinatio n techniques:	<b>CO:1</b> Students will learn different CLSI guidelines





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		Immunology , Pharmaceuti cal Microbiolog y and Industrial waste water treatment	techniques: Titer determinati on of isoantibodi es to human blood group antig ens			Titer determinati on of isoantibodie s to human blood group antigens	<b>CO:2</b> Students will learn different parameters to estimate pollution load
	MICRO5 306	Practical Course: Practical course based on Molecular Biology (I and II) and Microbial Technology	Laboratory scale production and media optimizatio n for exopolysac charide / bioemulsifi er production.			Laboratory scale production and media optimizatio n for exopolysacc haride / bioemulsifie r production.	<b>CO:1</b> Students will learn immobilizatio n testing parameters. <b>CO:2</b> Students will learn gene annotation.
	MICRO5 401	Pharmaceuti cal Microbiolog y	Drug Discovery: I. Conventio nal Process Bio- prospectin g (Medicinal Chemistry) – Extraction and purificatio n principles, Purificatio				<b>CO:1</b> Students will understand drug discovery and development.







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			n and characterization of bioactive molecules from natural sources			
	MICRO5 402	Molecular Biology II	Genetically modified Microbes, plants and animals Genetically modified organisms- social and ethical issues • Applications in medicine – prevention, early detection and cure of diseases • Gene augmentation, gene therapy		Genetically modified Microbes, plants and animals • Genetically modified organisms- social and ethical issues • Applications in medicine – prevention, early detection and cure of diseases • Gene augmentation, gene therapy	<b>CO:1</b> Students will understand issues related to GMOs and their application.
	MICRO5 403	Microbial Technology	: Bioreactor Design Designing of bioreactors - Design		: Bioreactor Design Designing of bioreactors - Design aspects	<b>CO:1</b> Students will learn downstream process of different





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			aspects CSTRs: The dimensiona l ratios of the outer shell, and the operational aspects such as working volume and impellers			CSTRs: The dimensional ratios of the outer shell, and the operational aspects such as working volume and impellers	fermented products.
	MICRO5 404	Medical Microbiolog y	Clinical Microbiolo gy Epidemiol ogical and investigati onal approaches for emerging infectious diseases:			Epidemiolo gical and investigatio nal approaches for emerging infectious diseases:	<b>CO:1</b> Students will able to learn multidrug resistance in bacterial pathogens.





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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	USS T12 1	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: <b>Disciplinary Knowledge:</b> 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	USS T23 1	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	USS T24 1	Statistical Techniques – II	Regression, SPC and Queuing	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. CO3: Revise control limits whenever necessary.





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			Model				CO4: Apply M/M/1:FIFO Queuing model.
B.Sc. Statistics, UG	USS T24 2	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	STA T35 02	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	STA T35 03	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	STA T35 04	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: <b>Critical Thinking and Problem solving:</b> Exhibit the skills of analysis,





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							inference, interpretation and problem-solving by observing the situation closely and design the solutions.
B.Sc. Statistics, UG	STAT3506(B)	Biostatistics	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	STAT3601	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: <b>Research-related skills and Scientific temper</b> : 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	STAT3602	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	STAT3603	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	STAT3604	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: <b>Environment and Sustainability:</b> Understand the impact of the scientific solutions in societal and environmental contexts and demonstrate the knowledge





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2019 - 2024

							of and need for sustainable development.
B.Sc. Statistics, UG	STA T36 06(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	PSS T11 4	Sampling Theory	Various sampling Techniques, and population parameters,	Various sampling Techniques, and population parameters	Various sampling Techniques, and population parameters	Various sampling Techniques, and population parameters	CO1:Identify and recognize the appropriate sampling Techniques in various situations.  PO1: <b>Disciplinary Knowledge:</b> Demonstrate





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2019 - 2024

			and population parameter estimation	estimation	estimation	estimation	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 the area of work.
M.Sc. Statistics, PG	PSS T12 3	Multi variate 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	PSS T12 4	Regression Analysis	Various regression models and model adequacy and model adequacy	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







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			uacy , mult icoll inear ity				integrates and transcends beyond discipline-specific approaches to address a common problem.
M.Sc. Statistics, PG	PSS T23 2	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	PSS T23 3	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





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			GA RC H				
M.Sc. Statistics, PG	PSS T23 4(A)	Data Mining	SVM, KNN, Decision Tree, Random Forest, Text Mining	SVM, KNN, Decision Tree, Random Forest, Text Mining	SVM, KNN, Decision Tree, Random Forest, Text Mining	SVM, KNN, Decision Tree, Random Forest, Text Mining	CO1:Students will be able to evaluate different models used for data processing  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	STA T53 04(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	PSS T23 4(C)	Reliability Theory	Coherent structures	Coherent structures and its	Coherent structures and its	Coherent structures and its	CO1:The students will be able to get idea of important lifetime distributions such as for





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2019 - 2024

			and its Reliability	Reliability	Reliability	Reliability	exponential, Weibull, gamma and lognormal distributions
M.Sc. Statistics, PG	PSS T24 2	Statistical Process Control	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 control chart, synthetic control chart, non-parametric control chart
M.Sc. Statistics, PG	PSS T24 3	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	PSS T24 6	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





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						hypothesis and research questions; and to identify and consult relevant sources to find answers. Plan and write a research paper/project while emphasizing on academics and research ethics, scientific conduct and creating awareness about intellectual property rights and issues of plagiarism.
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## ZOOLOGY

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.Sc. Zoology	USZL 111	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.
	USZL 113	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 121	Animal systematics & diversity-II	-	Principles of animal classification	-	Principles of animal classification	PO1. Disciplinary knowledge  PSO7. Scientific knowledge  CO1. Acquires the skills to classify various vertebrate taxa.
	ZOO 2301	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.
	ZOO 2302	Applied Zoology-I	<b>Fisheries and Dairy Science</b>	<b>Fisheries and Dairy Science</b>	<b>Fisheries and Dairy Science</b>	<b>Fisheries and Dairy Science</b>	PO5. Transdisciplinary knowledge.  PSO10. Communication skills.





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2019 - 2024

							CO4. Entrepreneurship.
ZOO 2401	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.
ZOO 2402	Applied Zoology-II	Apiculture and sericulture	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	<b>Environmental Pollution Wildlife Management</b>	<b>Environmental Pollution Wildlife Management</b>	<b>Environmental Pollution Wildlife Management</b>	<b>Environmental Pollution Wildlife Management</b>	<b>Environmental Pollution Wildlife Management</b>	PO8. Environment and Sustainability. PSO6. Biodiversity





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							Understanding. PSO7.Conservation Awareness  CO5. acquire the knowledge of environmental monitoring, role of various bioindicators
M.Sc. Zoology	ZO05 304	Economic Zoology	Prawn culture, Pearl Culture, Fish Culture	<b>Vermiculture industry</b>	Fish Industry	<b>Wild Life conservation</b>	PO6 Personal and professional competence. PO8Environment and Sustainability.  PSO10. Communication skills. PSO7.Conservation Awareness  CO4. Entrepreneurship. CO5. Contributes







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							the knowledge for conservation and sustainable use of Biodiversity
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2019 - 2024

## DAIRY TECHNOLOGY

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. Dairy Technology (UBDT)	UBDT - 111	Dairy Development		Dairy development, dairy cooperatives and incentives			CO1: They will learn about dairy cooperatives and dairy development in India PO1: They will be able to understand dairy cooperatives and dairy development in India
	UBDT - 112	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.





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2019 - 2024

							PO1: They will be able to understand dairy farming.
UBD T - 113	Dairy Chemistry					Protein, carbohydrates, vitamins, minerals, lipids	CO1: They will understand the chemistry of milk and its products, CO2: They will understand the composition, role of each component and their interactions. PO1: They will understand the chemistry involved in dairy industry
UBD T - 111 - 1	Dairy Farm Management					Identification of different breeds of cattle, CMP,	CO1: They will study common practices carried out





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2019 - 2024

					housing of animals and maintenance of animals	at a dairy farm. PO1: They will be able to identify the cattle breeds of dairy animals
UBD T - 111 - 2	Dairy Chemistry				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 dairy industries.
UBD T - 111 - 3	Soft Skill Development				Resume writing, group discussion	CO1: They will know communication skill of English language in corporate world. PO1: They will acquire





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						communication skill of English language in corporate world.
UBD T - 121	Food Technology				Food preservation methods	CO1: They will study methods of preservation of foods and study the natural and chemical preservatives PO1: They will learn about study of food preservation
UBD T - 122	Market Milk		Processing of milk			CO1: They will know the processing and packaging of milk and machineries for milk and Milk products. PO1: They will learn about detailed processing of milk.





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UBD T - 123	Microbiolog y of Milk and Milk Products				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 microorgani sms associated with dairy
UBD T - 121 - 1	Food Technology				Methods of food preservatio n	CO1:They will study different methods of preservation and study the natural and chemical preservative s PO1: They will study methods of preservation of foods
UBD T -	Microbiolog y of Milk				Different methods of	CO1: They will study





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2019 - 2024

121 - 2	and Milk Products				microbial analysis	about the preparation of media, culture, identify micro organisms CO2: They will learn different methods of microbial analysis. PO1:They will know basic microbiolog y laboratory practices and equipment
UBD T - 121 - 3	Computer Application				Study of computer machine and operating system, HTML, MS-Office, Mails, Google Docs,	CO1:They will study the computer machine and operating system, different computer programmes PO1: They will learn the computer machine





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2019 - 2024

						and operating system PO2: They will be able to run the device and different computer applications
BDT - 301	Dairy Processing Equipment		Study of dairy processing equipment			CO1: They will know about maintenance of Equipments and understand the design equipments PO1: They will learn about Design, working and maintenance of Equipments.
BDT - 302	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







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							process of various fermented products PO1: They will learn about fermentation and range of products made from fermentation
	BDT - 303	Nutrition Science				Role of nutrients, balance diet, BMR	CO1: They will understand 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





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BDT – 3.1	Dairy Processing Equipment				Study of milk tankers, cream separator, homogeniz er, 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, working and maintenance of Equipments.
BDT – 3.2	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 fermentatio n and range of products made from





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						fermentation
BDT - 3.3	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 human body
BDT - 401	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
BDT - 402	Traditional Indian Dairy Products		Indigenous milk products like paneer, concentrated milks ,etc			CO1:They will learn the making process of different indigenous milk products





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2019 - 2024

							PO1: They will know importance of indigenous milk product and its market demand
	BDT - 403	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, HACCP, etc PO1: They will understand Food safety, hygiene and sanitation
	BDT - 4.1	Dairy Engineering				Study of different utilities in	CO1:They will study the different





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						dairy industry like refrigerator, cold storage, etc	utilities used in dairy industry PO1: They will study the different utilities used in dairy plant
BDT – 4.2	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
BDT – 4.3	Food Safety, Hygiene and Sanitation					Study of CIP system, personal hygiene habits	CO1: They will study the sanitization and hygiene in dairy industries, personal





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						hygiene , CIP systems PO1: They will understand Food safety, hygiene and sanitation
BDT - 501	Quality Assurance and Waste Managemen t				Study of quality and importance of quality, Sensory evaluation, waste managemen t	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





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						made from milk. PO1:They will understand the range of products 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





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2019 - 2024

						importance of quality in food production
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







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2019 - 2024

						innovative food product, its quality evaluation, packaging, 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





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						PO1: They will learn about the packaging technology of dairy products.
BDT - 603	Entrepreneurship Development		Entrepreneurs 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 developmen





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						t and preparation of different types of milks.
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





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							understand the detailed manufacturing, processing and packaging of dairy products.
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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)	UB FP-111	Principles of Food Preservation	Dehydration, Fermentation	Canning, Pasteurization, Standardization, Freezing, Chilling	Dehydration, Fermentation	Canning, Pasteurization, Standardization, Freezing, Chilling	<p><b>CO1:</b> Students will have a thorough understanding of various food processing techniques. The students will know the importance of various preservation techniques.</p> <p><b>PO1:</b> Understand the basic concepts, fundamental principles and experimental findings and the scientific theories related to food technology, food science and Food technology &amp; engineering and its other fields related to the program.</p> <p><b>PO6:</b> Operate modern tools, equipment, instruments and laboratory techniques to perform the experiments and write the programs in different languages.</p>
	UB FP121	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><b>CO1:</b> 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><b>PO4:</b> Analytical Reasoning</p>





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						<p>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><b>PO1:-Disciplinary</b> Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific theories related to food technology, food science and Food technology &amp; engineering and its other fields related to the program.</p> <p><b>CO2:</b> Provide nutrition counselling and education to individuals, groups, and communities throughout the lifespan using a variety of communication strategies.</p> <p><b>PO12:</b> Lifelong Learning: - Propose novel ideas in explaining the scientific data, facts and figures related to Science and technology.</p> <p><b>CO3:</b> Evaluate nutrition information based on scientific reasoning for</p>
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						clinical, community, and food service application.
						<p><b>PO4:</b> 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>
	FP-7	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	<p>Osmotic dehydration, canning, freezing</p> <p><b>CO1:</b> Students will have a thorough understanding of various food processing techniques.</p> <p><b>PO8:</b> Application of Knowledge: - Develop a scientific outlook and apply the knowledge with respect to food technology.</p> <p><b>CO2:</b> The students will know the importance of various preservation techniques.</p> <p><b>PO1:</b> Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific theories related to food technology, food science and Food technology &amp; engineering and its other fields related to the program.</p>





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FP-10	Processing of Cereals, Pulses and Oilseeds	Milling of cereal & pulses, Extraction of oil and refining	-	-	Milling of cereal & pulses, Extraction of oil and refining	Processing of hot serve cereals and ready –to – eat breakfast cereals, Flakes, shreds, granules, puffed cereals, sugar coated products, popped and puffed snacks	<p><b>CO1:</b> Students will have a thorough understanding the unit operations followed for raw form to an edible form of cereals and legumes.</p> <p><b>PO8:</b> Application of Knowledge: - Develop a scientific outlook and apply the knowledge with respect to food technology</p> <p><b>CO2:</b> The students will know the importance of various methods to identify any disorder in fresh commodities.</p> <p><b>PO6:</b> Use of Modern Tools: - Operate modern tools, equipment, instruments and laboratory techniques to perform the experiments and write the programs in different languages.</p>
FP-12	Bakery and Confectionery Technology	-	-	-	preparation methods of bread, cake, biscuits, cookies, pastry, buns, crackers, types of quick bread, chocolate manufacture	<p><b>CO1:</b> Students will have a thorough understanding the processing and preservation of appetizers.</p> <p><b>PO1:</b> Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific theories related to food technology, food science and Food technology &amp; engineering and its other fields related to the program.</p> <p><b>CO2:</b> Students will have a thorough understanding on effect of blending and baking</p>	







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						<p>on final product of bakery.</p> <p><b>PO6:</b> Use of Modern Tools:- Operatemoderntools,equipme nt,instrumentsandlaboratoryte chniquesto perform the experiments and write the programs in different languages.</p> <p><b>CO3:</b> The students will know the various extruded product development.</p> <p><b>PO7:</b> 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><b>CO1:</b> 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><b>PO4:</b> 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</p>





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						<p>for the food industry and provide solutions for the challenges in the food industry as well as in agriculture.</p> <p><b>CO2:</b> Explain the production of milk and pre-treatment of milk.</p> <p><b>PO7:</b> Research Skills:- Understand how to design, collect, analyze, interpret and evaluate information/data that is relevant to food technology.</p> <p><b>CO3:</b> Explain the dairy processing technologies.</p> <p><b>PO1:</b> Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific theories related to food technology, food science and Food technology &amp; engineering and its other fields related to the program.</p>
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							<p><b>CO4:</b> Apply methods of analysis for dairy products and relate differences in composition and structure to differences in manufacturing processes.</p> <p><b>PO8:</b> Application of Knowledge:- Develop a scientific out look and apply the knowledge with respect to food technology.</p> <p><b>CO5:</b> Create a dairy product and evaluate relevant physical properties.</p> <p><b>PO7:</b> 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	Essential Commodities Act, Standards of Weights and Measu	Quality control laboratories of companies, Quality	Prevention of Food Adulteration Act, Food Safety Standard Authority of India (FSSAI), Codex	<p>On completion of the course, students will be able to:</p> <p><b>CO1:</b> Be able to critically evaluate the recent developments in the control of food safety.</p> <p><b>PO3:</b> Critical Thinking :- Propose novel ideas in</p>





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			<p>y contro l labora tories of Consu mer co- operat ives, Privat e testin g labora tories, Consu mer Guida nce Societ y</p>	<p>res, Export (Quali ty contro l and Inspec tion) Act, Burea u of Indian Standa rds Act, Agmar k Gradin g and Marke ting Act and Rules Nutriti onal Labell ing &amp; Educat ion act, Munic ipal</p>	<p>y contro l labora tories of Consu mer co- operat ives, Privat e testin g labora tories, Consu mer Guida nce Societ y</p>	<p>Alimentarius , Codex India, World Health Organization , International Organization for Standardizati on, Food and Agriculture Organization , Joint FAO/WHO Expert committee on food additives, British Retail Consortium( BRC) standard for Foods.</p>	<p>explaining the scientific data, facts and figures related to Science and technology.</p> <p><b>CO2:</b> Have an integrated view of the issues involved.</p> <p><b>PO5:</b> 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><b>CO3:</b> Be able to conduct risk assessments of food safety problems including genetic modification.</p> <p><b>PO11:</b> Environment and Sustainability:- Develop various communication skills such as reading, listening and speaking skills to express ideas and views clearly and effectively.</p> <p><b>CO4:</b> Demonstrate detailed knowledge of the</p>
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				Laboratories, Food and Drug Administration, The central Food Testing Laboratory, Export Inspection Council Laboratory		requirements for compliance with national and international food safety legislation.  <b>PO11:</b> Environment and Sustainability:- Develop various communication skills such as reading, listening and speaking skills to express ideas and views clearly and effectively.  <b>CO5:</b> Know how to control and maintain a quality management system.  <b>PO9:</b> Ethical Awareness- To train students in professional and ethical attitude, effective communication skills, teamwork skills and multidisciplinary approaches related to food Technology and engineering.
	FP-15	Principles of Post Harvests Tech	Harvesting factors, Maturity of harve		Harvesting factors, Maturity of harve	Post harvest technology of Cereal, Pulses, Oilseeds, Fruits and Vegetables,  On completion of the course, students will be able to: <b>CO1:</b> Understand technologies of post harvest technology and its role in providing better quality produce to the consumer.





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							Food technology & engineering and its other fields related to the program.
	FP-17	Food Safety, Hygiene and Sanitation	Types of hazards, Control methods using physical and chemical agents, Waste Disposal, Pest and Rodent Control, Personnel Hygiene,	SOPs, HACCP, ISO series, TQM, Product labelling and Nutritional labelling	Types of hazards, Control methods using physical and chemical agents, Waste Disposal, Pest and Rodent Control, Personnel Hygiene,	GHPs, GMPs, SOPs, HACCP, ISO series, TQM, Product labelling and Nutritional labelling	<p>On completion of the course, students will be able to:</p> <p><b>CO1:</b> Identify food safety hazards and their control</p> <p><b>PO3:</b> Critical Thinking :- Propose novel ideas in explaining the scientific data, facts and figures related to Science and technology.</p> <p><b>CO2:</b> Identify &amp; prevent potential sources of food contamination.</p> <p><b>PO3:</b> Critical Thinking :- Propose novel ideas in explaining the scientific data, facts and figures related to Science and technology.</p> <p><b>PO8:</b> Application of Knowledge:- Develop a scientific outlook and apply the knowledge with respect to food technology.</p>







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			Food Safety Measures		Food Safety Measures	<p><b>CO3:</b> Apply the principles of Hazard Analysis Critical Control Points (HACCP).</p> <p><b>PO8:</b> Application of Knowledge:- Develop a scientific out look and apply the knowledge with respect to food technology.</p> <p><b>CO4:</b> Recognize the principal legal responsibilities of food handlers regarding personal hygiene.</p> <p><b>PO4:</b> 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><b>CO5:</b> Apply a range of food quality systems</p>
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						<p><b>PO8-</b> Application of Knowledge:- Develop a scientific out look and apply the knowledge with respect to food technology.</p> <p><b>CO6:</b> Prepare a food safety plan</p> <p><b>PO3-</b> Critical Thinking :- Propose novel ideas in explaining the scientific data, facts and figures related to Science and technology.</p>
	FP-18	Packaging Technology	-	-	-	<p>Vacuum, CA and MA packaging systems, gas packaging machine; seal and shrink packaging machine; form and fill sealing machine; aseptic packaging systems; bottling machines;</p> <p>On completion of the course, students will be able to:</p> <p><b>CO1:</b> Describe the role and function of packaging materials used for a range of consumer food .</p> <p><b>PO1:</b> 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 &amp; engineering and its other fields related to the program.</p>





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							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.
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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)	PM FP1 21	Beverages and Snack Food Technology	Packaged drinking water Processing, roasted, toasted, puffed, popped and flakes Coated grains-	FSSAI specifications for beverages	Packaged drinking water Processing, roasted, toasted, puffed, popped and flakes Coated grains-	FSSAI specifications for beverages, Technology for fruit and vegetable based snacks, Techn	After learning this subject <b>CO1:</b> Students will be able to know different types of beverages found in Indian as well as international market. <b>PO1:-</b> 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. <b>CO2:</b> Students will have better ideas regarding alcoholic and non-alcoholic Beverages with water industry.





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2019 - 2024

			salted, spiced and sweetened Flour based snack–batter and dough based products; savoury and farsans ; formulated chips and wafers , papads .		salted, spiced and sweetened Flour based snack–batter and dough based products; savoury and farsans ; formulated chips and wafers , papads .	ology for coated nuts, technology for RTE puffed snack	<p><b>PO3- Critical Thinking :-</b> Propose novel ideas in explaining the scientific data, facts and figures related to Science and technology.</p> <p><b>CO3:</b> Students will have thorough knowledge of different types of cereal based</p> <p><b>PO1:-</b> Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific theories related to food technology, food science and Food technology &amp; engineering and its other fields related to the program.</p> <p><b>CO4:</b> Students will get brief knowledge of fruits and vegetables based snacks.</p> <p><b>PO8- Application of Knowledge:-</b> Develop a scientific outlook and apply the knowledge with respect to food technology.</p>
	PM FP1 22	Food Additives, and Toxicology	Food, contaminants, types of food additives	-	Food contaminants, types of food additives	Toxicological evaluation of food additives	<p>Students should be able to:</p> <p><b>CO1:</b> Uses of additive in food material</p> <p><b>PO6-</b> Use of Modern Tools:- Operate modern tools, equipment, instruments and laboratory techniques to perform the experiments and write the programs in different languages.</p> <p><b>CO2:</b> Effects of toxicants in human</p> <p><b>PO3- Critical Thinking :-</b> Propose</p>





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2019 - 2024

							novel ideas in explaining the scientific data, facts and figures related to Science and technology.
	PM FP1 23	Food Processing and Packaging	Biodegradable plastics, Edible gums, Coatings	-	Biodegradable plastics, Edible gums, Coatings	Classification of Thermal Processes, freezing, Active packaging, Modified atmospheric packaging, Aseptic packaging, Gas packaging machine, Seal and shrink packaging machine. Form	<p><b>CO1:</b> Students will be able to understand major food preservation and Packaging techniques and underlying principles.</p> <p><b>PO1:-</b> Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific theories related to food technology, food science and Food technology &amp; engineering and its other fields related to the program.</p> <p><b>CO2:</b> Students will be able to determine suitable methods of processing and Packaging techniques for a chosen food.</p> <p><b>PO7-</b> Research Skills:- Understand how to design, collect, analyze, interpret and evaluate information/data that is relevant to food technology.</p> <p><b>CO3:</b> Students will be able to understand Novel food processing methods like Thermal processing, cold preservation etc.</p> <p><b>PO3-</b> Critical Thinking: - Propose novel ideas in explaining the scientific data, facts and figures related to Science and technology.</p> <p><b>CO4:</b> Students will be able to understand operations involved in packaging Material manufacturing</p>





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						and fill sealing machine, Vacuum packaging machine, Retort pouches, Bottling machines, Packaging printing machines, Ionizing radiation	<p><b>PO1:-</b> Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific theories related to food technology, food science and Food technology &amp; engineering and its other fields related to the program.</p> <p><b>CO5:</b> Students will be able to understand major packaging material and methods used in food packaging.</p> <p><b>PO1:-</b>Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific theories related to food technology, food science and Food technology &amp; engineering and its other fields related to the program.</p>
	FPT-301	Dairy Processing Technology	Production and processing of cream, butter and ghee	Challenges faced by the Indian Dairy Supply Chain.	Production and processing of cream, butter and ghee	Cheese Technology, Supply Chain Management	<p><b>CO1:</b> Students will understand the concept of processing of milk and milk products.</p> <p><b>PO1:-</b> Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific theories related to food technology, food science and</p>





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						t of Dairy Products	Food technology & engineering and its other fields related to the program. <b>CO2:</b> The students will able to explain the basics behind milk process technology that would comparatively help to get the knowledge of technical views regarding industrial aspect. <b>PO8-</b> Application of Knowledge:- Develop a scientific out look and apply the knowledge with respect to food technology.
	FPT -302	Post-Harvest Technology	Size reduction processes, Mass, Energy balance and Heat transfer, Products and by products of plantation crops: cashew, areca nut,	WTO guidelines for export of horticultural products – COD EX standards and export standards for major fruits, vegetables and plantation	Size reduction processes, Mass, Energy balance and Heat transfer, Products and by products of plantation crops: cashew, areca nut,	Unit operations of food processing, postharvest disorders, pest and diseases and their management in major horticultural crops	<b>CO1:</b> Students will acknowledge the steps and techniques involved in post -harvest practices. <b>PO1:-</b> 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. <b>CO2:</b> The students will able to explain processing and packaging operations. <b>PO6-</b> Use of Modern Tools:- Operate modern tools, equipment, instruments and laboratory technique to perform the experiments and write the programs in different languages.







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			coconut, Cooling treatments for fruits, vegetables and plantation crops, Ripening methods	tion crops.	coconut, Cooling treatments for fruits, vegetables and plantation crops, Ripening methods		
FPT 303	Food Safety and Quality Management	Good manufacturing practices (GMP)	HACCP, ISO, Codex Alimentarius Commission (CAC)	Good manufacturing practices (GMP)	HACCP, ISO, Codex Alimentarius Commission (CAC)	<p><b>CO1:</b> Students will understand the concept of quality management in food processing.</p> <p><b>PO8-</b> Application of Knowledge:- Develop a scientific outlook and apply the knowledge with respect to food technology.</p> <p><b>CO2:</b> The students will be able to explain the degree of standard of any processed product.</p> <p><b>PO5-</b> Sense of Inquiry:- Curiously ask relevant questions for better understanding of fundamental concepts and principles, scientific theories and applications related to the study.</p>	





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Cycle IV

2019 - 2024

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			Local	National	Regional	Global	
B.Voc. Food Processing & Post Harvest Technology (UG)	FP-1	Principles of Food Preservation	Dehydration, Fermentation	Canning, Pasteurization, Standardization, Freezing, Chilling	Dehydration, Fermentation	Canning, Pasteurization, Standardization, Freezing, Chilling	<p><b>CO1:</b> Students will have a thorough understanding of various food processing techniques. The students will know the importance of various preservation techniques.</p> <p><b>PO1:</b> Understand the basic concepts, fundamental principles and experimental findings and the scientific theories related to food technology, food science and Food technology &amp; engineering and its other fields related to the program.</p> <p><b>PO6:</b> Operate modern tools, equipment, instruments and laboratory techniques to perform the experiments and write the programs in different languages.</p>
	FP-4	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><b>CO1:</b> 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><b>PO4:</b> 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><b>PO1:-Disciplinary Knowledge</b> - Understand the basic concepts, fundamental principles and experimental findings and the scientific theories related to food technology, food science and Food technology &amp; engineering and its other fields related to the program.</p> <p><b>CO2:</b> Provide nutrition counselling and education to individuals, groups, and communities throughout the lifespan using a variety of communication strategies.</p> <p><b>PO12: Lifelong Learning:</b> - Propose novel ideas in explaining the scientific data, facts and figures related to Science and technology.</p> <p><b>CO3:</b> Evaluate nutrition information based on scientific reasoning for clinical,</p>
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2019 - 2024

						community, and food service application.  <b>PO4:</b> 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.
	FP-7	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  <b>CO1:</b> Students will have a thorough understanding of various food processing techniques. <b>PO8:</b> Application of Knowledge: - Develop a scientific outlook and apply the knowledge with respect to food technology. <b>CO2:</b> The students will know the importance of various preservation techniques. <b>PO1:</b> 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.





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FP -10	Processing of Cereals, Pulses and Oilseeds	Milling of cereal & pulses, Extraction of oil and refining	-	Milling of cereal & pulses, Extraction of oil and refining	Processing of hot serve cereals and ready –to – eat breakfast cereals, Flakes, shreds, granules, puffed cereals, sugar coated products, popped and puffed snacks	<p><b>CO1:</b> Students will have a thorough understanding the unit operations followed for raw form to an edible form of cereals and legumes.</p> <p><b>PO8:</b> Application of Knowledge: - Develop a scientific outlook and apply the knowledge with respect to food technology</p> <p><b>CO2:</b> The students will know the importance of various methods to identify any disorder in fresh commodities.</p> <p><b>PO6:</b> Use of Modern Tools: - Operate modern tools, equipment, instruments and laboratory techniques to perform the experiments and write the programs in different languages.</p>
FP -12	Bakery and Confectionery Technology	-	-	-	preparation methods of bread, cake, biscuits, cookies, pastry, buns, crackers, types of quick bread, chocolate manufacture	<p><b>CO1:</b> Students will have a thorough understanding the processing and preservation of appetizers.</p> <p><b>PO1:</b> Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific theories related to food technology, food science and Food technology &amp; engineering and its other fields related to the program.</p> <p><b>CO2:</b> Students will have a thorough understanding on effect of blending and baking</p>





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						<p>on final product of bakery.</p> <p><b>PO6:</b> Use of Modern Tools:- Operatemoderntools,equipme nt,instrumentsandlaboratoryte chniquesto perform the experiments and write the programs in different languages.</p> <p><b>CO3:</b> The students will know the various extruded product development.</p> <p><b>PO7:</b> Research Skills:- Understand how to design, collect, analyze, interpret and evaluate information/data that is relevant to food technology.</p>
	FP -13	Dairy Technology	Manu facturing of Ghee, Milk powder, Khoa, milk based sweets		Manu facturing of Ghee, Milk powder, Khoa, milk based sweets	<p>standardizati on, Homogenizat ion, Pasteurizatio n, Homogenize rs, 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><b>CO1:</b> 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><b>PO4:</b> 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</p>





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2019 - 2024

						<p>for the food industry and provide solutions for the challenges in the food industry as well as in agriculture.</p> <p><b>CO2:</b> Explain the production of milk and pre-treatment of milk.</p> <p><b>PO7:</b> Research Skills:- Understand how to design, collect, analyze, interpret and evaluate information/data that is relevant to food technology.</p> <p><b>CO3:</b> Explain the dairy processing technologies.</p> <p><b>PO1:</b> Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific theories related to food technology, food science and Food technology &amp; engineering and its other fields related to the program.</p>
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2019 - 2024

							<p><b>CO4:</b> Apply methods of analysis for dairy products and relate differences in composition and structure to differences in manufacturing processes.</p> <p><b>PO8:</b> Application of Knowledge:- Develop a scientific out look and apply the knowledge with respect to food technology.</p> <p><b>CO5:</b> Create a dairy product and evaluate relevant physical properties.</p> <p><b>PO7:</b> 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	Essential Commodities Act, Standards of Weights and Measu	Quality control laboratories of companies, Quality	Prevention of Food Adulteration Act, Food Safety Standard Authority of India (FSSAI), Codex	<p>On completion of the course, students will be able to:</p> <p><b>CO1:</b> Be able to critically evaluate the recent developments in the control of food safety.</p> <p><b>PO3:</b> Critical Thinking :- Propose novel ideas in</p>







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2019 - 2024

				Laboratories, Food and Drug Administration, The central Food Testing Laboratory, Export Inspection Council Laboratory		and international food safety legislation.  <b>PO11:</b> Environment and Sustainability:- Develop various communication skills such as reading, listening and speaking skills to express ideas and views clearly and effectively.  <b>CO5:</b> Know how to control and maintain a quality management system.  <b>PO9:</b> Ethical Awareness- To train students in professional and ethical attitude, effective communication skills, teamwork skills and multidisciplinary approaches related to food Technology and engineering.
	FP-15	Principles of Post Harvests Technology	Harvesting factors, Maturity of harvest, Harvest	Harvesting factors, Maturity of harvest, Harvest	Post harvest technology of Cereal, Pulses, Oilseeds, Fruits and Vegetables, meat, milk, fish & Food	On completion of the course, students will be able to: <b>CO1:</b> Understand technologies of post harvest technology and its role in providing better quality produce to the consumer.





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2019 - 2024

			sting Meth ods, Clean ing and Gradi ng, Food storag e syste ms		sting Meth ods, Clean ing and Gradi ng, Food storag e syste ms	storage systems	<p><b>PO1:</b> Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific theories related to food technology, food science and Food technology &amp; engineering and its other fields related to the program.</p> <p><b>CO2:</b> Understand importance prevention of losses.</p> <p><b>PO4:</b> 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><b>CO3:</b> Understand utilization of the produce and methods for shelf life extension.</p>
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						<p><b>PO6:</b> Use of Modern Tools:- Operatemoderntools,equipme nt,instrumentsandlaboratoryte chniquesto perform the experiments and write the programs in different languages.</p> <p><b>CO4:</b> Understand cold chain management</p> <p><b>PO8:</b> Application of Knowledge:- Develop a scientific out look and apply the knowledge with respect to food technology.</p> <p><b>CO5:</b> Learn quality control and various standards required for domestic and export market.</p> <p><b>PO1:</b> 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 &amp; engineering and its other fields related to the program.</p>
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2019 - 2024

	FP -17	Food Safety, Hygiene and Sanitation	Types of hazards, Control methods using physical and chemical agents, Waste Disposal, Pest and Rodent Control, Personnel Hygiene, Food Safety	SOPs, HACCP, ISO series, TQM, Product labelling and Nutritional labelling	Types of hazards, Control methods using physical and chemical agents, Waste Disposal, Pest and Rodent Control, Personnel Hygiene, Food Safety	GHPs, GMPs, SOPs, HACCP, ISO series, TQM, Product labelling and Nutritional labelling	<p>On completion of the course, students will be able to:</p> <p><b>CO1:</b> Identify food safety hazards and their control</p> <p><b>PO3:</b> Critical Thinking :- Propose novel ideas in explaining the scientific data, facts and figures related to Science and technology.</p> <p><b>CO2:</b> Identify &amp; prevent potential sources of food contamination.</p> <p><b>PO3:</b> Critical Thinking :- Propose novel ideas in explaining the scientific data, facts and figures related to Science and technology.</p> <p><b>PO8:</b> Application of Knowledge:- Develop a scientific outlook and apply the knowledge with respect to food technology.</p> <p><b>CO3:</b> Apply the principles of Hazard Analysis Critical Control Points (HACCP).</p>





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Cycle IV

2019 - 2024

			Measures		Measures	
						<p><b>PO8:</b> Application of Knowledge:- Develop a scientific out look and apply the knowledge with respect to food technology.</p> <p><b>CO4:</b> Recognize the principal legal responsibilities of food handlers regarding personal hygiene.</p> <p><b>PO4:</b> 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><b>CO5:</b> Apply a range of food quality systems</p> <p><b>PO8-</b> Application of Knowledge:- Develop a scientific out look and apply</p>





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						<p>the knowledge with respect to food technology.</p> <p><b>CO6:</b> Prepare a food safety plan</p> <p><b>PO3-</b> Critical Thinking :- Propose novel ideas in explaining the scientific data, facts and figures related to Science and technology.</p>
	FP-18	Packaging Technology	-	-	-	<p>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> <p>On completion of the course, students will be able to:</p> <p><b>CO1:</b> Describe the role and function of packaging materials used for a range of consumer food .</p> <p><b>PO1:</b> Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific theories related to food technology, food science and Food technology &amp; engineering and its other fields related to the program.</p> <p><b>CO2:</b> Design solutions to packaging problems.</p>





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2019 - 2024

						<p><b>PO7-</b> Research Skills:- Understand how to design, collect, analyze, interpret and evaluate information/data that is relevant to food technology.</p> <p><b>CO3:</b> Measure and evaluate the chemical, physical and mechanical properties of packages and packaging.</p> <p><b>PO7-</b> Research Skills:- Understand how to design, collect, analyze, interpret and evaluate information/data that is relevant to food technology.</p> <p><b>CO4:</b> Explain knowledge of the legal, environmental, quality aspects associated with packaging materials and operations used in the food industry.</p> <p><b>PO1:</b> Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific theories related to</p>
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							food technology, food science and Food technology & engineering and its other fields related to the program.
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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)	FP T-201	Beverages and Snack Food Technology	Packaged drinking water Processing, roasted, toasted, puffed, popped and flakes Coated grains-salted, spiced and sweetened	FSSAI specifications for beverages	Packaged drinking water Processing, roasted, toasted, puffed, popped and flakes Coated grains-salted, spiced and sweetened	FSSAI specifications for beverages, Technology for fruit and vegetable based snacks, Technology for coated nuts, techno	After learning this subject <b>CO1:</b> Students will be able to know different types of beverages found in Indian as well as international market. <b>PO1:-</b> 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. <b>CO2:</b> Students will have better ideas regarding alcoholic and non-alcoholic Beverages with water industry. <b>PO3-</b> Critical Thinking :- Propose novel ideas in explaining the scientific data, facts and figures related to Science and technology.



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			Flour based snack–batter and dough based products; savoury and farsans ; formulated chips and wafers , papads .		Flour based snack–batter and dough based products; savoury and farsans ; formulated chips and wafers , papads .	logy for RTE puffed snack	<p><b>CO3:</b> Students will have thorough knowledge of different types of cereal based</p> <p><b>PO1:-</b> Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific theories related to food technology, food science and Food technology &amp; engineering and its other fields related to the program.</p> <p><b>CO4:</b> Students will get brief knowledge of fruits and vegetables based snacks.</p> <p><b>PO8- Application of Knowledge:-</b> Develop a scientific outlook and apply the knowledge with respect to food technology.</p>
	FP T-202	Food Additives, and Toxicology	Food, contaminants, types of food additives	-	Food contaminants, types of food additives	Toxicological evaluation of food additives	<p>Students should be able to:</p> <p><b>CO1:</b> Uses of additive in food material</p> <p><b>PO6-</b> Use of Modern Tools:- Operate modern tools, equipment, instruments and laboratory techniques to perform the experiments and write the programs in different languages.</p> <p><b>CO2:</b> Effects of toxicants in human</p> <p><b>PO3-</b> Critical Thinking :- Propose novel ideas in explaining the scientific data, facts and figures related to Science and technology.</p>





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2019 - 2024

FP T- 203	Advances Food Processing and Packaging	Biodegradable plastics, Edible gums, Coatings	-	Biodegradable plastics, Edible gums, Coatings	Classification of Thermal Processes, freezing, Active packaging, Modified atmospheric packaging, Aseptic packaging, Gas packaging machine, Seal and shrink packaging machine. Form and fill sealing	<p><b>CO1:</b> Students will be able to understand major food preservation and Packaging techniques and underlying principles.</p> <p><b>PO1:-</b> Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific theories related to food technology, food science and Food technology &amp; engineering and its other fields related to the program.</p> <p><b>CO2:</b> Students will be able to determine suitable methods of processing and Packaging techniques for a chosen food.</p> <p><b>PO7- Research Skills:-</b> Understand how to design, collect, analyze, interpret and evaluate information/data that is relevant to food technology.</p> <p><b>CO3:</b> Students will be able to understand Novel food processing methods like Thermal processing, cold preservation etc.</p> <p><b>PO3- Critical Thinking: -</b> Propose novel ideas in explaining the scientific data, facts and figures related to Science and technology.</p> <p><b>CO4:</b> Students will be able to understand operations involved in packaging Material manufacturing</p> <p><b>PO1:-</b> Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific theories related to food</p>
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						g machi ne, Vacuu m packa ging machi ne, Retort pouch es, Bottli ng machi nes, Packa ge printin g machi nes, Ionizi ng radiati on	technology, food science and Food technology & engineering and its other fields related to the program. <b>CO5:</b> Students will be able to understand major packaging material and methods used in food packaging. <b>PO1:-</b> 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.
	FP T- 301	Dairy Proce ssing Techn ology	Produc tion and proces sing of cream, butter and ghee	Challe nges faced by the Indian Dairy Suppl y Chain.	Produc tion and proces sing of cream, butter and ghee	Chees e Techn ology, Suppl y Chain Mana gemen t of Dairy	<b>CO1:</b> Students will understand the concept of processing of milk and milk products. <b>PO1:-</b> 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.





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2019 - 2024

						Products	<p><b>CO2:</b> 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.</p> <p><b>PO8-</b> Application of Knowledge:- Develop a scientific outlook and apply the knowledge with respect to food technology.</p>
	FP T-302	Post-Harvest Technology	Size reduction process, Mass, Energy balance and Heat transfer, Products and by products of plantation crops: cashew, areca nut, coconut, Coolin	WTO guidelines for export of horticultural products – COD EX standards and export standards for major fruits, vegetables and plantation crops.	Size reduction process, Mass, Energy balance and Heat transfer, Products and by products of plantation crops: cashew, areca nut, coconut, Coolin	Unit operations of food processing, postharvest disorders, pest and diseases and their management in major horticultural crops	<p><b>CO1:</b> Students will acknowledge the steps and techniques involved in post-harvest practices.</p> <p><b>PO1:-</b> Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific theories related to food technology, food science and Food technology &amp; engineering and its other fields related to the program.</p> <p><b>CO2:</b> The students will be able to explain processing and packaging operations.</p> <p><b>PO6-</b> Use of Modern Tools:- Operate modern tools, equipment, instruments and laboratory techniques to perform the experiments and write the programs in different languages.</p>





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2019 - 2024

			g treatments for fruits, vegetables and plantation crops, Ripening methods		g treatments for fruits, vegetables and plantation crops, Ripening methods	
	FP T3 03	Food Safety and Quality Management	Good manufacturing practices (GMP)	HACCP, ISO, Codex Alimentarius Commission (CAC)	Good manufacturing practices (GMP)	HACCP, ISO, Codex Alimentarius Commission (CAC) <b>CO1:</b> Students will understand the concept of quality management in food processing. <b>PO8-</b> Application of Knowledge:- Develop a scientific outlook and apply the knowledge with respect to food technology. <b>CO2:</b> The students will be able to explain the degree of standard of any processed product. <b>PO5-</b> Sense of Inquiry:- Curiously ask relevant questions for better understanding of fundamental concepts and principles, scientific theories and applications related to the study.



**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	UBJM 111	Introduction to Mass Communication				Process of Communication	PSO3 CO1
	UBJM 112	UBJM112 Introduction to Journalism		Legal and ethical Framework			PSO3 CO3,4
	UBJM 113	Current Affairs-World, India, Maharashtra		Socio-political scenario of India., Economic situation of India.	Socio-political scenario Maharashtra, Economic situation of Maharashtra., Agricultural Scenario in India		PSO1 CO1,2,3
	UBJM 114	Language skills-Marathi	-	-	-	-	CO1,2,3
	UBJM 115	Computer Application for Media	MS-WORD	Web development: HTML and	Introduction to Photoshop		CO1,2,3



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2019 - 2024

				Scripting language			
	UBJM 116	Basics of photography		Composition	Camera modes, Camera controls		PSO8 CO1,2, 3
	UBJM 121	News reporting and Editing-I	News Reporting and News Beats	Working on News Desks 2	Basics of News Writing, Editing		PSO3 CO1,2, 3
	UBJM 122	Writing for Media-I	Story Writing	Practice Writing	Various Types of Online Media Writing		PO8 CO1,2, 3
	UBJM 123	India after independence	-	-	-	-	CO1,2, 3
	UBJM 124	Language skills-English	Grammar Usage, Interview and Group discussion		Personality development	Writing and comprehension skills	PO 1, CO1,2, 3
	UBJM 125	Feature Writing	Computer typing techniques	Writing across media	Human interest stories		PO2, CO1,2, 3
	UBJM 126	Content Production on Mobile	Creation of short Videos		Types of Content		PO8 CO1,2, 3
	UBJM 231	News Reporting and Editing-II	Layout Design and Photojournalism		Reporting, Interviewing, Creative Editing		PO5 CO1,2, 3







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2019 - 2024

	UBJM 232	Writing for Media-II	Creative Content Creation		Writing for Non-Fiction Genres		PO5 CO1,2,3
	UBJM 233	Introduction to Radio		Radio News, Production technology	Radio News, Production technology		PO8 CO1,2,3
	UBJM 234	Reporting and Editing Skills	Specialized Writing, Layout and design	Photography	Writing across media		PO8 CO1,2,3
	UBJM 235	Radio Production	Radio Program production		Advertisement		PO5 CO1,2,3
	UBJM 236	Experimental Journal	produce a four-page newspaper		Design and layout		PO5 CO1,2,3
	JM 401	Introduction to Television	News Gathering		Television Programming		PO5 CO1,2,3
	JM 402	India After Independence		Popular Movements, Eve of new millennium			CO1,2,3
	JM 403	Introductions to Economics		Introduction to Indian Economy	Contemporary Economic Issues in State of	International Trade and its impact	CO1,2,3





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2019 - 2024

					Maharashtra		
	JM 404	Television Production	News Anchoring	News Production - Packaging and production	News Gathering and writing		CO1,2,3
	JM 405	Film Appreciation	Other Film Institutions		World and Indian Cinema		
	JM 406	Basics of Video production	Camera Exercise, Editing, Camera Techniques				CO1,2,
	JM 501	Introduction to Digital Media		Social Media, New Media Theories	Digital storytelling		CO1,2,3,4
	JM 502	Introduction to Media Research	Data Analysis	Qualitative research methods, Quantitative research methods			CO1,2,3,4
	JM 503	Mass Communication Theory	Personal Influence and Sociological Theory	Normative Theories of Mass Communication	Mass Media and Culture	Mass Communication Theories	CO1,2,3,4
	JM 504	Content Development For			Fake News and	Twitter and Instagram,	CO1,2,3,4





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2019 - 2024

		Digital Media	Writing for Digital Media		facts checking	YouTube	
	JM 505	Video Production Group Project	Screenplay writing, Script writing, Production Work				CO1,2,3
	JM 506	Industry Internship			Internship		CO1,2,3
	JM 601	Basics of Advertising		Theories and Models of Advertising	Understanding Brands, Working of Advertising Agency		CO1,2,3
	JM 602	Basics of Public Relations	PR during crisis		Use of Social Media in PR		CO1,2,3
	JM 603	Media Management	Marketing strategies		Finance and HR Management		CO1,2
	JM 604	Advertising Practices	Creation of Advertisement	Online platforms for advertisements	Advertising Campaign design		CO1,2,3
	JM 605	Dissertation/In-depth reporting (IDR)	RESEARCH PROJECT				CO1,2,3
	JM 606	Internship			Internship		CO1,2,3

