



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.

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NAAC-SSR

Cycle IV

2019 - 2024

DEFENCE

Programe	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
			Local	National	Regional	Global	
FYBA	DEF1101A	Defence Mechanism of India - I	Border Security	Border Security, Internal Security	Border Security	Border Security	PO3 Social competence: CO1: Understand the hierarchical structure and organization of the Indian military.
FYBA	DEF1201A	Defence Mechanism of India - II		Indian Army			PO4 : Disciplinary Knowledge CO3: Examine the characteristics and roles of the Armored Corps in modern warfare.





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	DEF 1101B	Military Thinkers - I	Principles for war	Principles for war	Principles for war	Principles for war	CO3: Examine the Schlieffen Plan and understand its objectives and implications.
FYBA	DEF 1201B	Military Thinkers - II	Geopolitics	Geopolitics	Geopolitics	Geopolitics	PO7 Environment and Sustainability CO6: Understand the concept of the indirect approach in military strategy as advocated by Liddell Hart.
SYBA	DEF-2301(A)	Military Geography - I	Role of Geography In War	Role of Geography In War	Role of Geography In War	Role of Geography In War	CO1: Analyze the specific arms and logistics required for effective warfare in different terrains.





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	DEF-2401(A)	Military Geography- II		Sea Warfare		Sea Warfare	PO4 : Disciplinary Knowledge CO3: Examine the characteristics and roles of the Armored Corps in modern warfare.
SYBA	DEF-2301(B)	Geopolitics-I	Maritime Boundaries and Territorial sea(Maritime Boundaries and Territorial sea(Maritime Boundaries and Territorial sea(Maritime Boundaries and Territorial sea(PO2 Effective Citizenship and Ethics CO2: Evaluate how Geopolitics influences national security policies and geopolitical strategies.





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DEF-2401(B)	Geopolitics-II	Frontier and Boundaries	Frontier and Boundaries	Frontier and Boundaries	Frontier and Boundaries	PO2 Effective Citizenship and Ethics CO1: Understand the concept and role of a buffer and landlocked state in geopolitics.
DEF-2302	Chatrapati Shivajis Military System-I	Maharashtra Geopolitics	Maharashtra Geopolitics			PO4 : Disciplinary Knowledge CO1: Students will understand the historical foundations leading to the rise of Maratha power, including the socio-political context and regional dynamics.





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SYBA	DEF-2402	Chatrapati Shivajis Military System-II	Organization of Maratha Forts and Aarmar				PO4 : Disciplinary Knowledge CO7: Students will explore Chatrapati Shivaji's contributions to naval development.
	DEF-2303	Indias Internal Security-I	Naxalism	Naxalism	Naxalism	Naxalism	PO2 Effective Citizenship and Ethics CO4: Students will understand the meaning and conceptual framework of Naxalism
	DEF-2403	Indias Internal Security-II	Cyber Crime	Cyber Crime	Cyber Crime	Cyber Crime	PO2 Effective Citizenship and Ethics CO3: Analyze the evolution of cyber threats and their impact on individuals, organizations, and nations.





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TYBA	G3 (A)	INDIA'S NATIONAL SECURITY		National Security		India's Foreign Policy	-
	G -3 (C)	Contemporary Warfare	Nuclear Warfare	Nuclear Warfare	Nuclear Warfare	Nuclear Warfare	-
	S -3 (A)	International and Regional Organisations				United Nations	-
	S- 4 (A)	Defence Economics	War finance	War finance	War finance	War finance	





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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. Economics	ECOGE N111	Indian Eco. Prob. & pros.I	1.Major issues of Development in India 2.Measures for Population Control	1.Major issues of Development in India 2.Measure s 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. PO1Research-Related Skills:
	ECOGE N121	Indian Eco. Prob. & pros.II	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 Citizenship and Ethics:





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S.Y.B. A. Economics	ECOGE N2301	Banking & Finance	2.2 Methods of Remittances – Demand Draft, Bankers Cheque, Mail Transfer, Telegraphic Transfer, Electronic Funds Transfer.	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	1.2 Evolution of Banking in India 1.3 Structure of Indian Banking System 2.5 Nationalization of Commercial Banks – Achievement 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.	CO6. Students will be able to Analyze the performance of Non-Banking financial institutions and the measures for NBFC given by RBI. CO7. Understand and remember the basics of Indian Financial System with the help of recent changes being adopted. PO6 Self-directed and Life-long learning: PO7 Environ
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							ment and Sustainability: PO8 Critical Thinking and Problem solving:
ECOSP L2302	Micro Economics I	3.7 Practical and Applications - Case studies on production functions and costs of single product and multi product firms.	1.3 Tools of Economic Analysis – Functional relationships, Schedules, Graphs & Equations.		3.2 law of Variable Proportions - The Three Stages. 3.3 Law of returns to scale - The Three Stages.		CO1. Understand the basics of national income accounting. CO2. Understand the causes and consequences of business cycles.
ECOSP L2303	Macro Economics I		4.1 Barter System and Evolution and Types of Money	2.1 History and institutional set up of National Income accounting in India	3.4 Keynesian Theory of Employment		CO7. Apply basic international trade and finance concepts to global pricing issues, including working with





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							PO1 Research-Related Skills: PO2 Effective Citizenship and Ethics: PO3 Social competence: PO4 Disciplinary Knowledge: PO5 Personal and professional
ECOGE N2401	Cooperation	2.2 Problems of Co-operative Agricultural Marketing. 2.3 Measures to solve the problems of Co-operative agricultural	2.1 Role of Co-operative agricultural Marketing . 2.2 Problems of Co-operative Agricultural Marketing . 2.3 Measures to solve	1.1 History of Co-operative movement in India	1.3 Principles of Co-operation	CO 4 Global Context: By analyzing empirical models, students will understand how countries like Japan and China have shaped their economic	





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			Marketing. 4.4 Housing Co-operative societies - Progress, Problems and measures.	the problems of Co-operative agricultural Marketing. 2.4 State Trading Co-operation. 3.4 NABARD - Objectives, Functions & working.			trajectories. development. PO2 Effective Citizenship and Ethics: PO3 Social competence: PO4 Disciplinary Knowledge: PO5 Personal and professional
ECOSP L2402	Micro Economics II	1.7 Practical and Applications: Case studies on product differentiation, pricing policy by firm	1.2 Monopoly Market - Concept, Characteristics and short and long run Equilibrium, Price Discrimination - Concept and Types. 1.3 Duopoly - Concept,	1.2 Monopoly Market - Concept, Characteristics and short and long run Equilibrium, Price Discrimination - Concept and Types. 1.3 Duopoly - 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	





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				Characteristics 1.4 Oligopoly – Concept, Characteristics. 1.5 Monopolistic Competition – Concept, Characteristics, short & long run Equilibrium, Selling cost-concept. 1.6 Perfect Competition – Concept, Characteristics, Price determination in short	Characteristics 1.4 Oligopoly – Concept, Characteristics. 1.5 Monopolistic Competition – Concept, Characteristics, short & long run Equilibrium, Selling cost-concept. 1.6 Perfect Competition – Concept, Characteristics, Price determination in short		of an economy. CO6. Understand the interaction between the domestic economy and the rest of the world. PO1 Research-Related Skills:
ECOSP L2403	Macro Economics 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	4.3 Principles and Effects of Taxation	CO3. Understand the roles of fiscal and monetary policy in





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					3.3 Policy and Control of Trade Cycles-		business cycle. PO2 Effective Citizenship and Ethics: PO3 Social competence: PO4 Disciplinary Knowledge: PO5 Personal and professional
FYBCOM	UCBE11	Micro Economics I	1.Major issues of Development in India 2.Measures for Population Control	Types of Market	Demand and supply determination	Price of production	CO1: To appraise students with various concepts of public revenue and expenditure of the government.
	UCBF11	Banking and Fin. I	Understanding banking structure	Technology in Banking	Understanding Indian economies state		CO2: To understand structure of financial sector





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	UCBE1 21	Micro Econo mics II	Local applicati on				CO3: To highlight basic econo mic problem s
	UCBF1 21	Bankin g and Fin. II	1.Function s of Banks 2.Method s of Remittan ces 3.Function s of RBI	Applicatio n of credit flow	1.Major issues of Developme nt in India 2.Measures for Population Control	Modern banking	CO2: To appraise students with various concepts of Banking PO3 Social competen ce:
SYBc om	COMB E2303	Macro Econo mics I			1.1 Meaning, Nature and Scope of Macro Economics 1.2 Significanc e and Limitations of Macro Economics 2.1 Various Concepts of National Income	4.1 Definitions and Evolution of Money 4.2 Functions of Money Demand for Money 4.3 Supply of Money and Multiple Credit Creation by Commertia l Banks	CO3. Understa nd the roles of fiscal and monetar y policy in fighting recessio ns and inflation .
	COMB F2306	Bankin g and Fin. I		2.1 Micro finance.	1.1 Public sectors Banks (SBI &	3.1 NPA- Concept, Classificati	CO3. Students will be able to





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				2.2 Payment banks. 2.3 Small finance Bank.	Nationalized Banks) Background, Mergers Banks. 1.2 Private Sectors Banks (Old & New) - Classification & Features. 1.3 Cooperative Banks (SCB, DCCB, PACS) - Features. 1.4 Foreign banks in India- Functions. 4.3 Functions of RBI	on and Criteria. 3.2 Identification and Causes of NPA. 3.3 Impact of NPA. 3.4 Management of NPA.	understand the Structure of Indian Banking and financial market as well PO2 Effective Citizenship and Ethics: PO3 Social competence: PO4 Disciplinary 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	CO5. Develop their understanding and expertise in various matters relating to operatio





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							ns 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 1.4 Challenges and Opportunities 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 Development Banks in India.	4.1 Basel Norms –II and III		CO1. The main outcome of this course is acquaint students with various aspects of financial system, role, structure, performance and the current problems faced by the banking sector in India PO2 Effective Citizenship and Ethics: PO3 Social competence:





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							PO4 Disciplinary Knowledge: PO5 Personal and professional
MA I	ECO4101	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. PO7 Environment and Sustainability: PO8 Critical Thinking and Problem solving:
	ECO4102	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





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							internati onal trade. PO5 Personal and professi onal compe tence: PO6 Self- directed and Life- long learning:
	ECO41 03	Interna tional Econo mics I	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 understa nd the undercur rents behind the policy making and its impleme ntation.
	ECO41 04	Indian Econo my Policy 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 Populatio n Control	Understand ing Indian economies state	Sector contributio n	CO3: To understa nd limitatio ns of Indian econom y PO1 Researc h- Related Skills:





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ECO4201	Micro Economics II	1. Functions of Banks 2. Methods of Remittances 3. Functions of RBI	Factor remuneration	Price determination	Basic economic problems	CO4: To understand limitations of Indian economy PO3 Social competence:
ECO4202	Public Finance II	1. Measures for Population Control	Role of Government in Organized Society	Role of private sector	Public expenditure	CO6: To understand limitations of Indian budget
ECO4203	International Economics II	Debate on Inclusive Growth	Debate on Inclusive Growth	To link between classical and modern theories	Comparison of Indian Economy with the world in major economic Indexes	CO1: To understand the undercurrents behind the policy making and its implementation. PO2 Effective Citizenship and Ethics:
ECO4204	Indian Economy	1. Major issues of Develop	1. Major issues of Developm	Understanding Indian economies state	India's Experience in Planning	CO6: To understand limitatio





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		Policy II	ment in India 2.Measures for Population Control	ent in India 2.Measure s for Population Control		ns of Indian economy PO4 Disciplinary Knowledge:
MA II Economics (PG)	ECO5301	Macro Economics I			1.2 Gross Domestic Product, Gross National Product, Net Domestic 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	CO1. Understand the basics of national income accounting. CO2. Understand the causes and consequences of business cycles. PO2 Effective Citizenship and Ethics: PO3 Social competence: PO4 Disciplinary Knowledge:





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					New Classical Macroeconomics: Perfect Information Rational Expectations		PO5 Personal and professional
ECO5302	Economic Growth & Development I	1.1 Economic Growth and Development 1.2 Economic Growth and Income Distribution-Kuznets Hypothesis	2.2 Obstacles to Economic Development-Vicious Circle of Poverty, Various Constraints	2.3 Characteristic of an Underdeveloped economy 4.4 The Doctrine of Balanced and Unbalanced Growth	3.4 Measurement of Development- Physical Quality of Life Index; Human Development Index, GHDI, Gross National Happiness and Indices 1.5 Sustainable Development- MDGs and SDGs	CO 3 Endogenous 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:





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							PO3 Social competence: PO4 Disciplinary Knowledge: PO5 Personal and professional
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 Model of Agricultural Development, Schultz's transformation of traditional agriculture.	CO4. Students will gain good command and understanding of banking system and banks and will be able to perform tasks confidently. PO3 Social competence: PO4 Disciplinary Knowledge:





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							PO5 Personal and professi onal
ECO53 04	Resear ch Metho dology	3.1Classi fication and Tabulatio n. 3.2 Graphs and Diagrams . 3.3 Measures of Central Tendencie s. Mean, median mode 3.4 Dispersio n & Correlati on. 3.5 Hypothes is Testing Chi Square test				4.1 Global Informatio n - Internet surfing, downloadi ng, blogs, mails. 4.2 Use of Word tools 4.3 Presentatio n - (Draw ing on Slide) Power Point 4.4Comput erized data processing- Excel, SPSS. 4.5 Stages of report writing.	CO 3 Market Analysis: The course should equip students with the skills to analyze agricultur al markets, including factors affecting price volatility, market trends, and the impacts of governme nt policies and internatio nal trade. CO 4 Agribus iness Value Chain: Students should gain





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						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 implications of these interactions.
ECO5401	Macro Economics II		1.1 Definitions of Money, functions of money, concept of	3.3 Money Multiplier Process, Some simplifying assumptions,		CO 4 Global Context: By analyzing empirical models,





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				liquidity. Measures of Money Supply 1.2 Liquidity measures according to Reddy Committee Report. 1.3 The debate relating to the definition of money	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 Inflation-Phillips Curve		students will understand how countries like Japan and China have shaped their economic trajectories. PO2 Effective Citizenship and Ethics: PO3 Social competence: PO4 Disciplinary Knowledge: PO5 Personal and professional
ECO5402	Economic Growth & Development II			2.3 Dualistic Theories-Social, Technological and Financial Dualism 2.4 Dependence		3.1 Flying Geese Paradigm 3.2 Japanese Model 3.3 East Asian Model of Capitalism	CO 1 Model Application: Students will be able to critically analyze and apply





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				cy Theory of Underdevelopment 4.1 Changes in the Role of Agriculture during the process of Economic Development 4.2 Population Growth and Economic Development		3.4 Chinese Market Economy Model 3.5 Russia's Glostnost and Perestroika and India's LPG 4.4 Role of Foreign Trade in Economic Development	growth models to various economic scenarios, recognizing their limitation s and advantage s. CO 2 Technical Change Insight: Graduates will distinguish between different types of technical changes, understanding their impacts on economic growth.
ECO5403	Agribusiness Eco II				1.1 Introduction: Problems of agriculture finance, 1.2 Measures taken to improve credit flow of	4.1 Introduction, Market Access, Domestic 4.2 Support, Export Subsidies, 4.3 Export and Import Performance of Indian	CO 1 Understanding Agricultural Economics: Students should develop a strong understanding of





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					<p>agriculture finance 1.3 Sources of agriculture finance, Commerci al Bank, 1.4 Regional Rural Bank, NABARD, Lead Bank Scheme, Cooperativ e Credit Structure and RBI. 3.1 Introductio n, Causes and Effects of fluctuation s in Agriculture prices 3.2 Agriculture price policy in India – need, objectives, and developme nt.</p>	<p>Agriculture , 4.4 Economic Liberalizati on and its impact on agriculture, WTO ministerial meeting and agriculture</p>	<p>the fundame ntal principle s and concepts of agricultu ral economi cs, includin g supply and demand, price determin ation, market structure s, and the role of agricultu re in the overall economy . 2 CO 3 Market Analysis : The course should equip students with the skills to analyze agricultu ral markets, includin g factors</p>
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							affecting price volatility, market trends, and the impacts of government policies and international trade. processing, marketing, in agribusiness, such as the economic implications of sustainable farming practices and the use of resources.
ECO5404	Modern Banking	1.1 Nature, structure, Functions and role of financial	1.4 Balance sheet of a commercial bank.	2.6 Reserve Bank of India 2.3 Changing trends in	4.3 Forms of foreign capital – Foreign Direct Investment	CO2. They will be able to describe fundamental	





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			system in economic development.		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 Institutions in India- 3.2 Role of the Non-banking Financial Institutions in India- 3.4 Functions of Non-banking Financial Institutions in India	[FDI], Pros and cons for FDI in India, 4.4 Regulation of foreign investments – Foreign Investment Promotion Board 4.5 Working and role of IMF, IBRD, IDA, IFC	concepts behind modern e-banking/mobile banking technologies.
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Program me	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs.				POs, PSO's & COs
			Local	Regional	National	Global	
T.Y.B.A.	General 3	Economic Development & Planning					
	Special 13	International Economics					Export composition
	Special 14	Public Finance			Budget		
T.Y.B. Com	353	Indian & Global Economic Development			Sectoral development		CO 4. To understand fundamentals of modern financial system. CO 3To understand the recent trends and developments in banking system.
	355-A	Banking and Finance-Special Paper I	Credit Flow		RBI		CO.3. To understand fundamentals of modern financial system. CO.4 To provide the knowledge of various financial and non-





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							financial institutions.
	355-B	Banking and Finance-Special Paper II	Credit supply	NABARD			CO. 4 To understand fundamentals of modern financial system. CO 6 To understand the recent trends and developments in banking system.





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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	
SYBA [semester-1]	ENG CO 2101	Compulsory English	Vocabulary (12Lectures)		Vocabulary (12Lectures)	Vocabulary (12Lectures)	CO1) Students learn grammar effectively
	Poetry			O Captain! My Captain!		O Captain! My Captain!	PO1) To familiarize students with excellent pieces of prose and poetry in English
S.Y.B.A. (semester I)	ENGF E 2105	Advanced Writing Skills and Introduction to Electronic Media		Letter writing	Letter writing		PO2) Enhancing students' ability to communicate in written mode





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	Comm unicati on			Types of Communica tion	Types of Com muni cation		PO3) Acquainting students to career options in electronic media and equipping them to be prepared for the same
S.Y. B.A (Semeste r- I)	ENGF E 2106	Oral Communica tion in English		Non-Verbal Communica tion	Non- Verba l Com muni cation	Non- Verbal Comm unicati on	CO3) To develop communicative competence of the students.
				Group Discussion	Grou p Discu ssion	Group Discuss ion	PO4) Students will speak English without hesitation.
S.Y. B.A (Semeste r- I)	ENG GE 2102	Study of English Language and Literature		Linguistics:	Lingu istics:	Linguis tics:	CO4) To develop integrated view about language and literature in them.
	Lingui stics			Socio- linguistics	Socio - lingui stics	Socio- linguist ics	CO5) To introduce the basic units of language.





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S.Y. B.A (Semester - I)	ENG SPL 2103	Special Paper I (S- 1)		Theory of Drama	Theor y of Dram a		PO5) To acquaint and familiarize the students with the terminology in Drama Criticism
	Play			A Doll's House		A Doll's House	CO6) To develop interest among the students to appreciate and analyze drama.
S.Y. B.A (Semester - I)	ENG SPL 2104	Appreciatin g Poetry (S- II)			Theor y of Poetr y	Theory of Poetry	CO7) To acquaint and familiarize the students with the terminology in poetry criticism.
	Poetry			William Wordswort h	Willi am Word swort h	Willia m Words worth	PO6) To develop linguistic competence and communicative skills among the students
SY.B.SC (Semester - I)	ENG CO 2101	Compulsor y English		Vocabulary	Voca bular y	Vocabu lary	To develop integrated view about language and literature in them.
		Grammar		Grammar		Gramm ar	To introduce relevance and function of Grammar.





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S.Y.B.S c (Semester - I)	ENG CO 2101	Technical English	An Old Woman –		An Old Woman –		PO) The students learn a few masterpieces of English Poetry and Prose
		Vocabulary		Vocabulary		Vocabulary	CO) To teach grammar to incorporate in English.
M.A. -II	ENG 5101	Indian Writing in English (Core Paper)	R K Narayan- The Bachelor of Art	R K Narayan- The Bachelor of Art	R K Narayan- The Bachelor of Art	R K Narayan- The Bachelor of Art	PSO1) The students get familiar with the major movements and figures of Indian English Literature
			Amitav Ghosh- <i>The Shadow Lines</i>	Amitav Ghosh- <i>The Shadow Lines</i>			CO8) To instill human values among students.





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M.A. -II	ENG 5102	English Language and Literature Teaching	Theories of Language Learning	Theories of Language Learning	Theories of Language Learning	Theories of Language Learning	PSO2) -To acquaint them with different approaches, methods and techniques of teaching English language and literature
		Theory	English in India	English in India	English in India		CO9) To sensitize the students to the major issues in ELT in the Indian Context
M.A. -II	ENG 5103	Drama in English		William Shakespeare: Romeo and Juliet	William Shakespeare: Romeo and Juliet	William Shakespeare: Romeo and Juliet	CO10) To acquaint students with the richness of Greek and Elizabethan drama, especially Sophocles, Shakespeare, Marlowe and his contemporaries





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		Play		Look Back in Anger	Look Back in Anger	Look Back in Anger	PSO3) To create literary sensibility for appreciation in students and expose them to artistic and Innovative use of language by writers and to various worldviews
M.A. -II	ENG 5104	American Literature		Henry David Thoreau: Walden	Henry David Thoreau: Walden	Henry David Thoreau: Walden	CO11) To introduce American sensibilities through literature.
		Poetry			Robert Frost:	Robert Frost:	CO12) To enhance literary and linguistic competence of students.





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GEOGRAPHY

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	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	GEO2301	Environment Geography- I	Ecosystem, Pollution	Ecosystem, Pollution	Ecosystem, Pollution	Ecosystem, Pollution	CO-1 Students should be able to integrate various





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





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							ht. CO-2 Students will learn the strategies to cope with these disasters.
GEO2 303	Practical Geography			Projection		Projection	CO-1 Students can 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	Environmental Problems and Planning	CO-1 Students aware about Environment issues.
GEO2 403	Practical Geography	Advanced Techniques in Mapping	Advanced Techniques in Mapping	Advanced Techniques in Mapping	Advanced Techniques in Mapping	Advanced Techniques in Mapping	CO-11 Develop practical knowledge and application of





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							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 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





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							global warming, climate change and acid precipitation. CO-2. Students can find out the remedies to control consequences of such calamities
GEO4104	Principles of Population and Settlement Geography	Population Dynamics	Population Dynamics	Population Dynamics	Population Dynamics	Population Dynamics	CO-1 Students knows the approaches and various theories in population and settlement geography. CO-2 Students 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





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							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	Representation of weather elements data	CO-1. Students will be able to collect various types of weather elements data and can develop new technologies to collect data. CO-2. with weather data students can predict or forecast weather conditions at local or 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





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							warning system for natural disaster like Tsunami, Earthquake.
	GEO 4205	Practical in Surveying	Advance surveying Techniques	Advance surveying Techniques	Advance surveying Techniques	Advance surveying Techniques	CO-1. Students will be able to carry out the survey for local, regional and national level administrative authorities for different purpose like planning of town, construction of roads, bridge etc.
	GEO4 214	Practical of Statistical 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 be able to correlate different geographical data.





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MA I Geography (PG)	GEO 5314	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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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.A. Hindi	FYBA 1) HIN110 1 / HIN120 1	1) हिंदी सामान्य	स्थानीय प्रासंगिकता: प्रेमचंद की " पंच परमेश्वर" कहानी और पंचलाइट (कहानी) - फणीश्वरनाथ रेणु आदि स्थानीय संदर्भों के लिए अत्यधिक प्रासंगिक हैं।	राष्ट्रीय प्रासंगिकता: माखनलाल चतुर्वेदी की 'पुष्प की अभिलाषा' कविता	क्षेत्रीय प्रासंगिकता: प्रेमचंद की " पंच परमेश्वर" कहानी पंचलाइट (कहानी) - फणीश्वरनाथ रेणु ग्रामीण लोगों की संस्कृति और परंपराओं के बारे में जानकारी प्रदान करती हैं।	वैश्विक प्रासंगिकता: हो गई है पीर (गज़ल) - दुष्यंतकुमार	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) राष्ट्रीय ऐक्य, सामाजिक उत्तरदायित्व, वैज्ञानिकता आदि मूल्यों के प्रति छात्रों का ध्यान आकर्षित करना।
B.Com Hindi	FYBCo m 2) HIN110 1 /	हिंदी सामान्य	हार की जीत (कहानी) - सुदर्शन	महाशूद्र (कहानी) - मोहनदास नैमिशराय	महाशूद्र (कहानी) - मोहनदास नैमिशराय	महाशूद्र (कहानी) - मोहनदास नैमिशराय	कार्यक्रम के परिणाम (POs): PO2:- प्रभावी नागरिकता और नैतिकता:





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	HIN120 1 (C)			मनुष्यता – अलीक (कविता)	मनुष्यता – अलीक (कविता)	मनुष्यता – अलीक (कविता)	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) हिंदी के गद्य एवं पद्य के प्रतिनिधि रचनाकारों का परिचय देना। CO2) छात्रों की सर्जनात्मक शक्ति का विकास कराना।
B.A. Hindi	SYBA 1) HIN 2301/ 2401	सामान्य हिंदी	खेल (कहानी) - जैनेंद्र कुमार गाँव के लड़के (कविता)- सुमित्रानंदन पंता विज्ञापन लेखन, वृत्तांत लेखन, साक्षात्कार	छावनी में बेघर (कहानी) - अल्पना मिश्र गाँव के लड़के (कविता)- सुमित्रानंदन पंता विज्ञापन लेखन, वृत्तांत लेखन, साक्षात्कार	उसने कहा था (कहानी)- चंद्रधर शर्मा गुलेरी गाँव के लड़के (कविता)- सुमित्रानंदन पंता विज्ञापन लेखन, वृत्तांत लेखन, साक्षात्कार	उसने कहा था (कहानी)- चंद्रधर शर्मा गुलेरी गाँव के लड़के (कविता)- सुमित्रानंदन पंता 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





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B.A. Hindi	2) HIN 2302/2402	काव्यशास्त्र	काव्य की परिभाषा, काव्य के तत्व, काव्य हेतु तथा काव्य के प्रयोजन	काव्य की परिभाषा, काव्य के तत्व, काव्य हेतु तथा काव्य के प्रयोजन	काव्य की परिभाषा, काव्य के तत्व, काव्य हेतु तथा काव्य के प्रयोजन	काव्य की परिभाषा, काव्य के तत्व, काव्य हेतु तथा काव्य के प्रयोजन	कार्यक्रम के परिणाम (POs): - PO8 :- आलोचनात्मक सोच और समस्या समाधान: आलोचनात्मक सोच के कौशल का प्रदर्शन करें और अपने सामाजिक परिवेश में स्थित समस्याओं से निपटने, व्यवहार्य समाधान प्रस्तावित करने और इसके कार्यान्वयन में





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							मदद करने के लिए उच्च क्रम के संज्ञानात्मक कौशल का उपयोग करें। पाठ्यक्रम परिणाम (COs): - CO1) काव्य, साहित्य की परिभाषाओं द्वारा काव्य के स्वरूप के साथ काव्य हेतु तथा काव्य के प्रयोजनों का ज्ञान कराना।
B.A. Hindi	3) HIN 2303/ 2403	उपन्यास, नाटक तथा मध्ययुगीन काव्य	एक पत्नी के नोट्स - ममता कालिया (उपन्यास) महाभोज - मन्नू भंडारी (नाटक)	एक पत्नी के नोट्स - ममता कालिया (उपन्यास) महाभोज - मन्नू भंडारी (नाटक)	कबीर के दोहे सूरदास के पद रहीम के दोहे बिहारी के दोहे	एक पत्नी के नोट्स - ममता कालिया (उपन्यास) महाभोज - मन्नू 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 एवं भक्तों के काव्य से





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B.A. Hindi	TYBA 1) 3097	सामान्य हिंदी (G-3)	सृजन संदर्भ और मैं (आत्मकथां श) साए में धूप (गजल) - दुष्यंतकुमार	सृजन संदर्भ और मैं (आत्मकथां श) साए में धूप (गजल) - दुष्यंतकुमार	सृजन संदर्भ और मैं (आत्मकथां श) साए में धूप (गजल) - दुष्यंतकुमार	सृजन संदर्भ और मैं (आत्मकथां श) साए में धूप (गजल) - दुष्यंतकुमार	कार्यक्रम के परिणाम (POs): - पाठ्यक्रम परिणाम (COs): -
B.A. Hindi	TYBA 2) 3098	हिंदी साहित्य का इतिहास (S-3)	भक्तिकाल	भक्तिकाल आधुनिक काल	भक्तिकाल आधुनिक काल	भक्तिकाल आधुनिक काल	कार्यक्रम के परिणाम (POs): - पाठ्यक्रम परिणाम (COs): -
B.A. Hindi	TYBA 3) 3099	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): - पाठ्यक्रम परिणाम (COs): -
M.A. Hindi	MA-I HIN 4101/ 4201	प्राचीन तथा मध्ययुगीन काव्य	अमीर खुसरो की पहेलियों	अमीर खुसरो का खड़ीबोली हिंदी के विकास में योगदान	जायसी का पद्यावत महाकाव्य	जायसी का पद्यावत महाकाव्य	कार्यक्रम के परिणाम (POs): - PO1:- अनुसंधान-संबंधित कौशल: चुने हुए क्षेत्र और संबद्ध विषयों में अनुसंधान और उच्च शैक्षणिक उपलब्धियों के लिए अवसर की तलाश है और अनुसंधान





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							<p>नैतिकता, बौद्धिक संपदा अधिकारों और साहित्यिक चोरी के मुद्दों के बारे में जागरूक है।</p> <p>प्रासंगिक/उचित प्रश्न पूछने के लिए पूछताछ की भावना और क्षमता प्रदर्शित करें, किसी अनुसंधान परियोजना के परिणामों की योजना बनाने, निष्पादित करने और रिपोर्ट करने की क्षमता, चाहे वह क्षेत्र में हो या अन्यथा पर्यवेक्षण के तहत।</p> <p>पाठ्यक्रम परिणाम (COs): -</p> <p>CO1) प्राचीन तथा मध्ययुग के प्रतिनिधि कवियों के योगदान के विविध आयामों से छात्रों को परिचित करना।</p> <p>CO2) मध्ययुगीन संत एवं भक्तों के काव्य से छात्रों को परिचित कराना।</p>
M.A. Hindi	MA-I HIN 4102/ 4202	आधुनिक हिंदी कथा साहित्य	हिंदी की श्रेष्ठ कहानियाँ – 'मुंबई कांड' - ओमप्रकाश वाल्मीकि	उपन्यास - 'छप्पर': डॉ. जयप्रकाश कर्दम	उपन्यास - 'छप्पर': डॉ. जयप्रकाश कर्दम	उपन्यास - 'छप्पर': डॉ. जयप्रकाश कर्दम	कार्यक्रम के परिणाम (POs): - PO3:- सामाजिक क्षमता: व्यक्तिगत और





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			'पुरस्कार' - जयशंकर प्रसाद				व्यावसायिक जीवन में अच्छे पारस्परिक संबंध बनाने के लिए स्वयं को स्पष्ट और सटीक रूप से व्यक्त करें। वास्तविक और आभासी मीडिया में खुद को प्रभावी ढंग से अभिव्यक्त करने के लिए भाषाई दक्षताओं का प्रभावी उपयोग करें। समूह सेटिंग में बहुसांस्कृतिक संवेदनशीलता प्रदर्शित करें। पाठ्यक्रम परिणाम (COs): - CO1) गद्य की प्रमुख विधाओं के तात्त्विक स्वरूप का परिचय देना। CO2) रचना के आस्वादन एवं समीक्षण की क्षमता विकसित करना।
M.A. Hindi	MA-I HIN 4103/ 4203	भारतीय / पाश्चात्य साहित्यशा स्त्र	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. रिचर्ड्स का मनोवैज्ञानिक मूल्यवाद और संप्रेषण सिद्धांत	कार्यक्रम के परिणाम (POs): - PO8 :- आलोचनात्मक सोच और समस्या समाधान: आलोचनात्मक सोच के कौशल का प्रदर्शन करें और अपने सामाजिक परिवेश में स्थित





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							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) भारतीय तथा पाश्चात्य साहित्यशास्त्र के सिद्धांतों का ज्ञान कराना। CO2) साहित्यशास्त्रीय अध्ययन के माध्यम से छात्रों में समीक्षात्मक दृष्टि विकसित कराना।
M.A. Hindi	MA-I HIN 4104/ 4204	विशेष स्तर: विशेष साहित्यकार: कबीर / विशेष विधा : हिंदी उपन्यास	कबीर के दोहे तथा पद उपन्यास - गोदान- प्रेमचंद अलग अलग वैतरणी - शिवप्रसाद सिंह परिशिष्ट- गिरिराज किशोर	कबीर के दोहे तथा पद उपन्यास - गोदान- प्रेमचंद अलग अलग वैतरणी - शिवप्रसाद सिंह परिशिष्ट- गिरिराज किशोर	कबीर के दोहे तथा पद उपन्यास - गोदान- प्रेमचंद अलग अलग वैतरणी - शिवप्रसाद सिंह परिशिष्ट- गिरिराज किशोर	कबीर के दोहे तथा पद उपन्यास - गोदान-प्रेमचंद अलग अलग वैतरणी - शिवप्रसाद सिंह परिशिष्ट- गिरिराज किशोर	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





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							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 की कविताएँ	कामायनी- जयशंकर प्रसाद (महाकाव्य) गोपा गौतम: जगदीश गुप्त (खंडकाव्य)	गोपा गौतम: जगदीश गुप्त (खंडकाव्य) विशेष कवि कुंवर नारायण की कविताएँ	कामायनी- जयशंकर प्रसाद (महाकाव्य) गोपा गौतम: जगदीश गुप्त (खंडकाव्य)	कार्यक्रम के परिणाम (POs): - PO8 :- आलोचनात्मक सोच और समस्या समाधान: आलोचनात्मक सोच के कौशल का प्रदर्शन करें और अपने सामाजिक परिवेश में स्थित समस्याओं से निपटने, व्यवहार्य समाधान प्रस्तावित करने और इसके कार्यान्वयन में मदद करने के लिए उच्च क्रम के संज्ञानात्मक कौशल का उपयोग करें। पाठ्यक्रम परिणाम (COs): - CO1. छात्र आधुनिक हिंदी काव्य की प्रवृत्तियों से परिचय होंगे।





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M.A. Hindi	MA-II 2) HIN 5302 / 5402	भाषा विज्ञान / हिंदी भाषा का ऐतिहासिक विकास	भाषा की परिभाषा, स्वरूप, हिंदी भाषा का उद्भव एवं विकास हिंदी का व्याकरणिक स्वरूप और विकास	स्वन विज्ञान वाक्य विज्ञान अर्थ विज्ञान,	हिंदी बोलियों का वर्गीकरण तथा क्षेत्र- हिंदी का व्याकरणिक स्वरूप और विकास	भाषा की परिभाषा, स्वरूप, हिंदी भाषा का उद्भव एवं विकास हिंदी का व्याकरणिक स्वरूप और विकास	कार्यक्रम के परिणाम (POs): - PO4 :- अनुशासनात्मक ज्ञान : पारंपरिक अनुशासन ज्ञान और आधुनिक दुनिया में इसके अनुप्रयोगों का मिश्रण प्रदर्शित करें। चुने गए कार्यक्रम से उत्पन्न मजबूत सैद्धांतिक और व्यावहारिक समझ को क्रियान्वित करें। पाठ्यक्रम परिणाम (COs): - CO15) छात्रों में भाषा के वैज्ञानिक अध्ययन की दृष्टि निर्माण करना।
M.A. Hindi	MA-II 3) HIN 5303 / 5403	हिंदी साहित्य का इतिहास	आदिकाल भक्तिकाल	भक्तिकाल आधुनिक काल	भक्तिकाल आधुनिक काल	भक्तिकाल आधुनिक काल	कार्यक्रम के परिणाम (POs): - PO6 :- स्व- निर्देशित और जीवन भर सीखना: सामाजिक- तकनीकी परिवर्तन के व्यापक संदर्भ में स्वतंत्र और जीवन भर सीखने में संलग्न होने की क्षमता हासिल करना। पाठ्यक्रम परिणाम (COs): -





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							CO8) 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: लोकसाहि त्य	आलोचना- स्वरूप, उद्देश्य, लोकगीत: परिभाषाएँ, विशेषताएँ महाराष्ट्र का लोकनाट्य- तमाशा, गोधळ	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 (एलियेशन) , विसंगति (एब्सर्ड), अंतर्विरोध (पैराडॉक्स), विखंडन (डीकन्स्ट्रक्श न)	कार्यक्रम के परिणाम (POs): - PO3:- सामाजिक क्षमता: व्यक्तिगत और व्यावसायिक जीवन में अच्छे पारस्परिक संबंध बनाने के लिए स्वयं को स्पष्ट और सटीक रूप से व्यक्त करें। वास्तविक और आभासी मीडिया में खुद को प्रभावी ढंग से अभिव्यक्त करने के लिए भाषाई दक्षताओं का प्रभावी उपयोग करें। समूह सेटिंग में बहुसांस्कृतिक संवेदनशीलता प्रदर्शित करें। पाठ्यक्रम परिणाम (COs): - CO1) आलोचना का स्वरूप, उसकी उपयोगिता और आलोचक के गुण से परिचित कराना। CO2) लोकसाहित्य में सामाजिक





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							प्रथाओं, परंपराओं और सांस्कृतिक मूल्यों की जीवंत प्रस्तुतियों से परिचित होंगे।
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HISTORY

Progr amme	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
			Local	Nationa l	Regiona l	Global	
B.A.	F.Y.B. A.Sem I HIS 1101	Chh. Shivaji and his times, Part I	Unit2:Ri se and Consoli dation of Maratha power.	Unit2:Ri se and Consoli dation of Maratha power.	Unit2:Ri se and Consoli dation of Maratha power.	Unit2:Ri se and Consoli dation of Maratha power.	PSO 4. To understand & evaluate different historical ideas, various arguments and point of view.
B.A.	F.Y.B. A.Sem II HIS 1201	Chh. Shivaji and his times, Part II	Unit1: Chh.Sa mbhaji and his Achieve ments	Unit1: Chh.Sa mbhaji and his Achieve ments	Unit1: Chh.Sa mbhaji and his Achieve ments	Unit1: Chh.Sa mbhaji and his Achieve ments	PSO 01. To learn a basic narrative of historical events in a specific region of the world in a specific time frame.
B.A.	S.Y.B. AHIS GEN 2301	Modern India Part I	Unit III - Indian National ism	Unit III - Indian National ism	Unit III - Indian National ism	Unit III - Indian National ism	PSO 2. To articulate factual & contextual knowledge of specific places & times, to make careful comparisons (across time, space & culture).
B.A.	S.Y.B. AHIS SPL I 2302	Ancient India Part I	Unit -3. Vedic Culture	Unit -3. Vedic Culture	Unit -3. Vedic Culture	Unit -3. Vedic Culture	PSO 4. To understand & evaluate different historical ideas, various





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							arguments and point of view.
B.A.	S.Y.B. AHIS SPL II 2303	Medieval India Part I	Delhi Sultanat e : Arts and Science.	Delhi Sultanat e : Arts and Science.	Delhi Sultanat e : Arts and Science.	Delhi Sultanat e : Arts and Science.	PSO 5. To develop an appreciation of themselves & of other through the study of the past in local, regional, national and global context.
B.A.	S.Y.B. AHIS GEN 2401	Modern India- Part II	Unit II - Rise and Growth of commun alism	Unit II - Rise and Growth of commun alism	Unit II - Rise and Growth of commun alism	Unit II - Rise and Growth of commun alism	PO 2, Problem Analysis: Provides insight into analyzing key movements, contributing to logical problem analysis.
B.A.	S.Y.B. AHIS SPL I 2402	Ancient India- Part II	Unit – 4. Harshav ardhana and his Achieve ments	Unit – 4. Harshav ardhana and his Achieve ments	Unit – 4. Harshav ardhana and his Achieve ments	Unit – 4. Harshav ardhana and his Achieve ments	PSO 5. To develop an appreciation of themselves & of other through the study of the past in local, regional, national and global context.
B.A.	S.Y.B. AHIS SPL II 2403	Medieval India- Part II	Unit – 3 Delhi sultanate : Socio- Econom ic, &	Unit – 3 Delhi sultanate : Socio- Econom ic, &	Unit – 3 Delhi sultanate : Socio- Econom ic, &	Unit – 3 Delhi sultanate : Socio- Econom ic, &	PSO 5. To develop an appreciation of themselves & of other through the study of the





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			religious life.	religious life.	religious life.	religious life.	past in local, regional, national and global context.
B.A.	T.Y.B. A. GEN III 3177	History of the world in 20th Century (1914-1992)	Unit-2 Russian Revolution	Unit-2 Russian Revolution	Unit-2 Russian Revolution	Unit-2 Russian Revolution	PSO 01. To learn a basic narrative of historical events in a specific region of the world in a specific time frame.
B.A.	T.Y.B. A. GEN III 3177	History of the world in 20th Century (1914-1992)	Unit 6 : World War II	Unit 6 : World War II	Unit 6 : World War II	Unit 6 : World War II	PO 2 (Problem Analysis): Acquiring in-depth knowledge of the causes and impacts of the First World War aligns with the program outcome of developing logical understanding of the past for analyzing current societal problems (PO 2).
B.A.	T.Y.B. A. SPL III 3178	Introduction to History	Unit-1 Nature and Scope of History	Unit-1 Nature and Scope of History	Unit-1 Nature and Scope of History	Unit-1 Nature and Scope of History	To articulate factual & contextual knowledge of specific places & times, to





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							make careful comparisons (across time, space & culture).
B.A.	T.Y.B. A. SPL III 3178	Introducti on to History	Unit 5 : School of Historio graphy	Unit 5 : School of Historio graphy	Unit 5 : School of Historio graphy	Unit 5 : School of Historio graphy	PSO 01. To learn a basic narrative of historical events in a specific region of the world in a specific time frame.
B.A.	T.Y.B. A. SPL IV 3179	History of Asia in 20 th Century (1914- 1992)	Unit-1 China	Unit-1 China	Unit-1 China	Unit-1 China	PSO 01. To learn a basic narrative of historical events in a specific region of the world in a specific time frame.
B.A.	T.Y.B. A. SPL IV 3179	History of Asia in 20 th Century (1914- 1992)	Unit-3 Arab Israel Conflict	Unit-3 Arab Israel Conflict	Unit-3 Arab Israel Conflict	Unit-3 Arab Israel Conflict	PSO 01. To learn a basic narrative of historical events in a specific region of the world in a specific time frame.
M.A. I	HIS 4101	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.





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M.A. I	HIS 4102	Evolution of Ideas and Institutions in Early India	Unit 2 : Sources: Perceptions, Limitations, Range	Unit 2 : Sources: Perceptions, Limitations, Range	Unit 2 : Sources: Perceptions, Limitations, Range	Unit 2 : Sources: Perceptions, Limitations, Range	CO 2 Students will acquire knowledge about modern and most recent theories of History writing.
M.A. I	HIS 4103	Maratha Polity	Unit 2 Judicial Administrative System	Unit 2 Judicial Administrative System	Unit 2 Judicial Administrative System	Unit 2 Judicial Administrative System	CO 1 Students will be able to analyze perceptions, limitations and range of sources of Early India.
M.A. I	HIS 4104	Social Background of Dalit Movement in Maharashtra	Unit 3: Historical Background of Protest	Unit 3: Historical Background of Protest	Unit 3: Historical Background of Protest	Unit 3: Historical Background of Protest	CO 2 It highlights the earlier forms of protest from the ancient till the medieval period, which laid the foundations for social protest and dissent in the pre-Ambedkar period.
M.A.	SEM II HIS 4201	History and its Practices	Unit 1 : Defining Historical Research Methodology	Unit 1 : Defining Historical Research Methodology	Unit 1 : Defining Historical Research Methodology	Unit 1 : Defining Historical Research Methodology	CO1.S tudents will gain a solid understanding of historical research





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							h metho dology , enabli ng them to conduc t effecti ve researc h in the field of history .
M.A.	SEM II HIS 4202	Evolution of Ideas and Institution in Medieval India	Unit 2 : Sourc es: Perce ptions , Limit ations, Range	Unit 2 : Sources: Percepti ons, Limitati ons, Range	Unit 2 : Sources: Percepti ons, Limitati ons, Range	Unit 2 : Sources: Percepti ons, Limitati ons, Range	CO2They will become proficient in analyzing various sources of historical information, including Persian texts, regional language sources, and foreign travelers' accounts.
M.A.	Sem.II HIS 4203	Socio Economic History of Maratha	Unit 4 : Social Stratific ation and mobility	Unit 4 : Social Stratific ation and mobility	Unit 4 : Social Stratific ation and mobility	Unit 4 : Social Stratific ation and mobility	CO 4 Studen ts will gain an unders tandin g of





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							the agrarian system, land types, revenue collection methods, and fiscal systems in historical India.
M.A.	Sem.II HIS 4204	Nature of Dalit Movement in Maharashtra	Unit 2 : Dr. Babasah eb Ambedkar's Movement	Unit 2 : Dr. Babasah eb Ambedkar's Movement	Unit 2 : Dr. Babasah eb Ambedkar's Movement	Unit 2 : Dr. Babasah eb Ambedkar's Movement	CO2. They will be able to analyze and discuss key events and organizations in the Dalit movement under Dr.Ambedkar's leadership, including Mooknayak, Bahishkrut Bharat, Janta, Prabuddha Bharat, BahishkritHita karniSabha, Mahad Satyagraha, and more.





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M.A.	Sem III HIS 5301	Ancient and Medieval Civilization of the World	Unit 2. Ancient civilizations: Egypt, Mesopotamia, Persia, India, China	Unit 2. Ancient civilizations: Egypt, Mesopotamia, Persia, India, China	Unit 2. Ancient civilizations: Egypt, Mesopotamia, Persia, India, China	Unit 2. Ancient civilizations: Egypt, Mesopotamia, Persia, India, China	CO 3 - Understanding cultural, social, religious, and economic dynamics:
M.A.	Sem III HIS 5302	Debates in Indian History	Unit 2 The State in Indian History : Debates and Theories	Unit 2 The State in Indian History : Debates and Theories	Unit 2 The State in Indian History : Debates and Theories	Unit 2 The State in Indian History : Debates and Theories	CO 2. Develop critical thinking skills by analyzing the Aryan Invasion Hypothesis, considering different perspectives and evidence.
M.A.	Sem III HIS 5303	Economic Modern of India	Unit 3. Industry	Unit 3. Industry	Unit 3. Industry	Unit 3. Industry	C07 Evolution of Financial System and Banking





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M.A.	Sem III HIS 5304	History of Maharashtra in the 19th Century	Unit 4. Social stratification and caste-class consciousness	Unit 4. Social stratification and caste-class consciousness	Unit 4. Social stratification and caste-class consciousness	Unit 4. Social stratification and caste-class consciousness	CO 3 - Social and Cultural Changes
M.A.	Sem IV HIS 5401	History of Modern India (1857-1971)	Unit 1. Indian Revolutionary Movement	Unit 1. Indian Revolutionary Movement	Unit 1. Indian Revolutionary Movement	Unit 1. Indian Revolutionary Movement	The Indian Revolutionary Movement, various issues, and movements directly relates to building critical abilities through understanding multiple narratives and historical developments.
	Sem IV HIS 5402	Intellectual History of the	Unit 3. Revolution in Scientific	Unit 3. Revolution in Scientific	Unit 3. Revolution in Scientific	Unit 3. Revolution in Scientific	CO 3: Explore the impact of scientific revolutions





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		Modern West	thinking and its impact	thinking and its impact	thinking and its impact	thinking and its impact	on intellectual history
	Sem IVH IS 540 3	World after World War II (1945-2000)	Unit1. Cold War: Origin and Nature, Issues	Unit1. Cold War: Origin and Nature, Issues	Unit1. Cold War: Origin and Nature, Issues	Unit1. Cold War: Origin and Nature, Issues	CO 1.To understand the origin and nature of the Cold War and its implications for global politics, with a focus on key events like the Berlin Crisis (1948), Korean War, and Cuban Crisis.
	Sem IVHIS 5404	History of Maharashtra in the 20 th Century	Unit 6. Towards emancipation of Women	Unit 6. Towards emancipation of Women	Unit 6. Towards emancipation of Women	Unit 6. Towards emancipation of Women	CO 2. To explore the key political, social, and cultural movements that shaped the state's history.





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LIBRARY 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)	BLIS 101	Foundatio n of Library & Informatio n Science	Library Develop ment	Library Develop ment	Library Develop ment	Library Developm ent	CO1. The foundation al aspects of library and informatio n science (LIS), in terms of history, significant developm ents, major themes, organizati ons and institution s. PO4 :Disciplin ary Knowledge: CO1: This CO contribute s to disciplinar y knowledg e by covering the historical





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							background, significant developments, major themes, organizations, and institutions in LIS.
BLIS 102	Library Management & Organization	Library Management Technical Services	Library Management Technical Services	Library Management Technical Services	Library Management Technical Services	Library Management Technical Services	<p>CO1: Can apply the skills and attitudes of visioning, entrepreneurship, advocacy, planning and Management of libraries and information centers (LICS) and effective leadership in the LIS field</p> <p>PO4: Disciplinary Knowledge:</p> <p>CO1: This CO demonstrates the</p>





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							applicatio n of a broad range of skills and attitudes necessary for effective library and informatio n center manageme nt, aligning with the overall disciplinar y knowledg e in LIS.
	BLIS 103	Reference Service & Informatio n Sources	Online Referenc e Services	Online Referenc e Services	Online Referenc e Services	Online Reference Services	CO7. Acquire the understan ding of reference services. PO3: Social competen ce and communi cation skills: CO7: Acquiring an understan ding of





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							reference services requires both social competence and communication skills.
BLIS 104	Information Science	Channels of communication	Channels of communication	Channels of communication	Channels of communication	Channels of communication	CO7: The process of retrieving databases and on-line /web information resources in network Environment. PO2: Effective Citizenship and Ethics: CO7: Understanding the process of retrieving information from databases and online resources in a network environment is essential





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							for effective citizenship
	BLIS 105	Knowledge Organisation Classification-I (Theory)	Various Classification Schemes	Various Classification Schemes	Various Classification Schemes	Various Classification Schemes	CO6: Illustrate knowledge as mapped in different classification schemes PO2: Effective Citizenship and Ethics: CO6: Understanding how knowledge is mapped in different classification schemes promotes effective citizenship by providing individuals with tools to critically analyze and interpret information.





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	BLIS 106	Information Processing : Cataloguing-I (Theory)	Cataloguing Codes	Cataloguing Codes	Cataloguing Codes	Cataloguing Codes	<p>CO6. Will be useful to understand the basic functions and practical work in library cataloguing.</p> <p>PO3: Social competence and communication skills:</p> <p>CO6: Practical experience in library cataloguing enhances social competence by providing hands-on skills in managing information resources.</p>
	BLIS 107	Information Communication Technology (ICT) in	Advanced ICT Techniques in Libraries	Advanced ICT Techniques in Libraries	Advanced ICT Techniques in Libraries	Advanced ICT Techniques in Libraries	<p>CO2. Familiar with Computer system including hardware</p>





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		Libraries (Theory)					and software. PO6 : Self- directed and Life- long learning CO2 :This outcome encourage s students to stay updated with the latest technolog y trends, fostering a culture of life-long learning.
M.Lib. I.Sc. (PG)	MLIS 101	Information Communication & Society	Develop ments in Informati on Society	Develop ments in Informati on Society	Develop ments in Informati on Society	Develop ments in Informati on Society	2. Should be able to understand the basic theory and practice of research and be familiar with qualitative and quantitative methods. PO2 Effective Citizenship and Ethics:





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							All of the COs also contributes to Effective Citizenship and Ethics. For example, CO2, and CO3 The students will be understand TQM, Management, change management ethics CO4 students to use their Effective management system in library.
	MLIS 102	Introduction to Research Methodology	Research Tools.& SPSS	Research Tools.& SPSS	Research Tools.& SPSS	Research Tools.& SPSS	6. Understand the various information retrieval models PO1 Research-Related Skills and Scientific temper: CO6 community building in library marketing.





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	MLIS 103	Information Retrieval	Information Models	Information Models	Information Models	Information Models	4. Should be capable of managing the human resources beneficially. PO5 Personal and professional competence: CO4 : contribute to the development of students' Personal and professional competence.
	MLIS 104	Management of Libraries & Information Centres-A	Human Resources Management	Human Resources Management	Human Resources Management	Human Resources Management	3.To examines basic concepts and theories of digital libraries PO3 Social competence and communication skills: CO3, CO4, CO5 also contributes to Social





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							competence and communication skills For example CO3, CO4, CO5 students will be use to communication technology.
	MLIS 105	Information Technology (Theory)	Library Digitization	Library Digitization	Library Digitization	Library Digitization	<p>CO1. The foundational aspects of library and information science (LIS), in terms of history, significant developments, major themes, organizations and institutions.</p> <p>PO4 :Disciplinary Knowledge : CO1: This CO contributes to disciplinary knowledge by covering</p>





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							the historical background, significant developments, major themes, organizations, and institutions in LIS.
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MARATHI

Programe	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
			Local	National	Regional	Global	
F.Y. B.A. Sem. I	MARGEN1 101	आधुनिक मराठी साहित्य व व्यावहारिक मराठी	Stories Language Skills तक्रार- शंकर पाटील	Multi Language Skills झोप - द. मा. मिरासदार	Regional Language Skills मी आचार्य अत्रे कसा झालो नाही ?- मुकुंद टाकसाळे	Translators पेज श्री-मंगला गोडबोले	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	MARGEN1 201	आधुनिक मराठी साहित्य व व्यावहारिक मराठी	Poetry Language Skills काळी आई	Entrepreneurs जन्मदात्री आई	Regional Language Skills मातृभाषा	Translators देवत माऊली	Po5 Personal professional competence Pso- लेखन-संपादन, लेखनविद्या -, भाषांतर, रूपांतर, अनुवाद, वक्तृत्व कला,





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							नाट्यकला, याअभिव्यक्ती च्या आविष्कार प्रकार व प्रक्रियांविषयी तसेच त्यासंबंधीची माहिती होईल. Co- प्रसार माध्यमांमध्ये विद्यार्थ्यांना आपले विचार निर्भीडपणे मांडण्याचे कौशल्य प्राप्त होईल.
F.Y.B.COM Sem. I	COMMARI 107B	व्यावहारिक व उपयोजित मराठी	Language & Literature Skill कर्मयोगी शिक्षणतज्ञ - डॉ. राम ताकवले	Multi Language Skills अभिनय सम्राट - डॉ. श्रीराम लागू	Regional Language Skills प्रख्यात धन्वंतरी - डॉ.ह.वि. सरदेसाई	Job Opportunity राष्ट्रीय कीर्तीचे शास्त्रज्ञ - डॉ. रघुनाथ माशेलकर	PO4: Disciplinary Knowledge: PSO- वाङ्मयाची आणि जीवनाची जाणीव प्रौढ होईल. Co- विद्यार्थ्यांच्या लेखन गुणांना उत्तेजन मिळेल.कार्यालयीन व प्रशासकीय व्यवहार करताना व द्याथ्यांना मराठीचा अचूक व





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							प्रभावी वापर करता येईल.
F.Y.B.COM Sem. II	COMMAR1 207B	व्यावहारिक व उपयोजित मराठी	Language Skills अर्जलेखन इतिवृत्त लेखन	Multi Language Skills कार्यालयीन टिपणी लेखन	Regional Language Skills घोषणापत्रक निविदा माहितीपत्रक	Job Opportunity सारांश लेखन सूत्रसंचालन	PO8: Critical Thinking and Problem solving: PSO-. विद्यार्थ्यांची भाषिक कौशल्याच्या वापरासंबंधीची क्षमता विकसित होईल. Co-.भाषिक क्षमता व कौशल्य आत्मसात करता येतील.

Programme	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
			Local	National	Regional	Global	
SYBA Sem. III	MARGE N2301	आधुनिक मराठी साहित्य आणि उपयोजित मराठी	Stories Language Skills KkuT;ksrh lkfo=hc kbZ Qqys % L=h gDdkpk iz.ksR;k &izk- gjh ujds	Multi Language Skills महर्षी /kksaMks a ds'ko dosZ % निष्काम deZ;ksxh & MkW- u- e- tks'kh	Regional Language Skills egkjtk l;kthjko xk;dokM % दूरदृष्टा jktk&ckck HkkaM	Transliterations 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





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							म्हणून अभ्यासाची जाण विकसित होईल तसेच विविध साहित्य प्रवाहांची माहिती होईल व अशा अभ्यासाच्या आकलनक्षमतेत वाढ होईल.
SYBA Sem. IV	MARGE N2401	आधुनिक मराठी साहित्य आणि उपयो जित मराठी	Stories Language Skills e;kZn'khy thoukpk vkys[k & Jherh izfrHkkr kbZ ikVhy	Multi Language Skills eh vkf.k ek>s ys[ku& MkW-;w- e- iBk.k	Regional Language Skills lkfgfR;d tM.k?kM.k & jk- x- tk/ko	Translators foLrkj.kkj s f{kfrt& MkW-rkj k HkokGdj	Po6; Self-directed and Life-long learning: Pso चरित्रात्मक लेखाचे आस्वाद आणि मूल्यमापन करण्याची क्षमता विद्यार्थ्यांमध्ये निर्माण होईल. Co लेखकाच्या समग्र लेखक म्हणून अभ्यासाची जाण विकसित होईल तसेच विविध साहित्य प्रवाहांची माहिती होईल व
SYBA Sem. III	MARSPL 2302	मराठी साहित्यातील विविध साहित्य प्रवाह	Stories Language Skills	Multi Language Skills	Regional Language Skills	Translators	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





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							आकलनक्षमतेत वाढ होईल. Co- आत्मचरित्र, आत्मकथन या वाङ्मय प्रकाराचे विद्यार्थ्यांना आकलन होईल.
SYBA Sem. IV	MARSPL 2402	मराठी साहित्यातील विविध साहित्य प्रवाह	Stories Language Skills	Multi Language Skills	Regional Language Skills	Transliterations	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 आकलनक्षमतेत वाढ होईल. Co- आत्मचरित्र, आत्मकथन या वाङ्मय प्रकाराचे विद्यार्थ्यांना आकलन होईल.
SYBA Sem. III	MARSPL 2303	अर्वाची न मराठी वाङ्मयाचा इतिहास (१८१८ ते १९२०)	Language & Literature Skill निवडक कथा व विविध वाङ्मय प्रकारांचा अभ्यास	Multi Language Skills निवडक कादंबरी, व विविध वाङ्मय प्रकारांचा अभ्यास	Regional Language Skills निवडक कविता व विविध वाङ्मय प्रकारांचा अभ्यास	Job Opportunity निवडक नियतकालिके विविध वाङ्मय प्रकारांचा अभ्यास	Po4. Disciplinary Knowledge: Pso- विशिष्ट कालखंडातील साहित्याच्या अभ्यासाच्या व्याप्ती बद्दल विद्यार्थ्यांची जाण





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							वाढीस लागण्यास मदत होईल. Co- या संपूर्ण कालखंडातील निबंध, कविता, कथा, कादंबरी, नाटक, चरित्र-आत्मचरित्र, या वाङ्मय प्रकाराचे विद्यार्थ्यांना आकलन होईल.
SYBA Sem. IV	MARSPL 2403	अर्वाची न मराठी वाङ्मयाचा इतिहास (१९२० ते १९६०)	Language & Literature Skill निवडक कथा व विविध वाङ्मय प्रकारांचा अभ्यास	Multi Language Skills निवडक कादंबरी, व विविध वाङ्मय प्रकारांचा अभ्यास	Regional Language Skills निवडक कविता व विविध वाङ्मय प्रकारांचा अभ्यास	Job Opportunity निवडक नियतकालिके विविध वाङ्मय प्रकारांचा अभ्यास	Po4.Disciplinary Knowledge: Pso-विशिष्ट कालखंडातील साहित्याच्या अभ्यासाच्या व्याप्ती बदल विद्यार्थ्यांची जाण वाढीस लागण्यास मदत होईल. Co- या संपूर्ण कालखंडातील निबंध, कविता, कथा, कादंबरी, नाटक, चरित्र-आत्मचरित्र, या वाङ्मय प्रकाराचे विद्यार्थ्यांना आकलन होईल.
SYBSC Sem. III	MAR230 1A	मराठी विज्ञान साहित्य आणि व्यावहारिक मराठी	Stories Language Skills विज्ञान कथा	Multi Language Skills वैज्ञानिक भाषा	Regional Language Skills तंत्र कौशल्य	Translators शास्त्रज्ञ	PO8: Critical Thinking and Problem solving:





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							<p>PSO- साहित्याच्या अभ्यासातून विद्यार्थ्यांच्या सूक्ष्म, विश्लेषक व चिकित्सक अभ्यास करण्याच्या क्षमतेमध्ये वाढ होईल. CO- वैज्ञानिक जाणीवा विकसित होतील.</p>
SYBSC Sem. IV	MAR240 1A	मराठी विज्ञान साहित्य आणि व्यावहारिक मराठी	Stories Language Skills कथाकथन	Multi Language Skills बहुभाषिकता	Regional Language Skills नवीन शोध	Transliterations भाषा कौशल्य	<p>PO8: Critical Thinking and Problem solving: PSO- साहित्याच्या अभ्यासातून विद्यार्थ्यांच्या सूक्ष्म, विश्लेषक व चिकित्सक अभ्यास करण्याच्या क्षमतेमध्ये वाढ होईल. CO- जीवनामध्ये विज्ञानाचा सुयोग्य वापर करायला शिकतील.</p>





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T.Y.B. A. SEM-V	MARGE N3501	आधुनिक मराठी साहित्य प्रकारां चा अभ्यास	Stories Language Skills 'उद्याच्या सुंदर दिवसांसाठी' - डॉ. नागनाथ कोत्तापल्ले,	Multi Language Skills ग्रंथ परीक्षण	Regional Language Skills ललित गद्य स्वरूप	Translater s संवाद कौशल्य	
T.Y.B. A. SEM-V	MARSPL 3502	साहित्य विचार	Language Skills व्यवहारभाषा, शास्त्रीय साहित्याची भाषा व साहित्याची भाषा यांच्यातील भेद	Multi Language Skills कलावादी व जीवनवादी या दृष्टीने प्रयोजन विचार	1. Re gio nal La ng ua ge Ski lls साहि त्याचे शब्द स्वरू प	आस्वादक	
T.Y.B. A. SEM-V	MARSPL 3503	मराठी चा भाषिक अभ्यास	Language Skills बहुभाषिकत्व	Multi Language Skills भाषाभेद	Regional Language Skills बोलीभूगोल	Translater s अनुवाद	
T.Y.B. A. SEM- VI	MARGE N3601	आधुनिक मराठी साहित्य प्रकारां चा अभ्यास	Stories Language Skills 'दोन चाक आणि मी' - लेखक-	Multi Language Skills प्रवा सवर्णनाचे घटक	Regional Language Skills प्रवा स वर्णनाची परंपरा	Translater s प्रवासवर्णनकार	





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			हृषीकेश पाळंदे,				
T.Y.B. A. SEM- VI	MARSPL 3602	साहित्य विचार	Language Skills आस्वादकाचे गुण	Multi Language Skills लेखक, वाचक आणि भाषा यांची सामाजिकता	Regional Language Skills अभिरुची नियंत्रित करणारे घटक	Translators साहित्य प्रकार संकल्पना	
T.Y.B. A. SEM- VI	MARSPL 3603	मराठी चा भाषिक अभ्यास	Language Skills स्वन विज्ञान	Multi Language Skills अर्थाचे विविध प्रकार	Regional Language Skills स्वनिम निश्चितीची तत्वे	Translators रूपिमाचे प्रकार	
MA I Marat hi Sem. I	MAR410 1	व्यावहा रिक आणि उपयो जित मराठी भाग- १	Language Skill मुद्रित शोधन	Multi Language Skills प्रमाणलेखन	Regional Language Skills मुलाखत लेखन	Job Opportuni tyties मुलाखतकार, मु द्रितशोधक	PO4:Discip linary Knowledge : PSO. भाषेचे विविध व्यवहार आणि साहित्याच्या संदर्भातील भाषा व्यवहार याविषयीची आकलनाची क्षमता विकसित होईल. CO- व्यवहारिक व उपयोजित भाषेची ओळख होईल तसेच





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	MAR410 2	मध्ययु गीन मराठी वाङ्म याचा इतिहास (प्रारंभ ते १६००)	Literatur e Skill वाङ्मयाचा इतिहास	Literature Knowled ge Skill विविध वाङ्मय प्रकार	Regional Language Skills विविध वाङ्मय वाटचाल	Job Opportuni ty लेखक	Po1 Research- Related Skills: pso- विशिष्ट कालखंडातील साहित्याच्या अभ्यासाच्या व्याप्ती बदल विद्यार्थ्यांची जाण वाढीस लागण्यास मदत होईल. CO- मराठी भाषेची उत्पत्ती विकास व स्थित्यंतराची ओळख होईल.
	MAR410 3	भाषावि ज्ञान- वर्णना त्मक	Languag e Skills स्वन विज्ञान	Multi Language Skills अर्थाचे विविध प्रकार	Regional Language Skills स्वनिम निश्चितीची तत्वे	Transleter s बहुभाषिक	Po1 Research- Related Skills: pso- विद्यार्थ्यांची भाषिक अभिव्यक्ती सुधारण्यास तसेच पर्यायाने समाजाची भाषिक अभिवृद्धी विकसित होण्याची प्रक्रिया सुरु होईल. CO- विद्यार्थ्यांना शास्त्रीय दृष्ट्या भाषेचा परिचय होईल.





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	MAR4104	ग्रामीण साहित्य	Language Skill ग्रामीण कथा	Multi Language विविध बोलींचा अभ्यास	Social & Regional Language Skills सामाजिक बांधिलकी	Author ग्रामीण लेखकांचा अभ्यास	PO3: Social competenc e: pso-लेखकाच्या समग्र लेखक म्हणून अभ्यासाची जाण विकसित होईल तसेच विविध साहित्य प्रवाहांची माहिती होईल व अशा अभ्यासाच्या आकलनक्षमतेत वाढ होईल. CO-ग्रामीण कथा कादंबरी व साहित्याचे आकलन होईल.
MA I Marat hi Sem.II	MAR4201	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 जनसंपर्कअधिकारी	PO5: Personal and professional competenc e: pso-लेखन-संपादन, लेखनविद्या -, भाषांतर, रूपांतर, अनुवाद, वक्तृत्व कला, नाट्यकला, या अभिव्यक्तीच्या आविष्कार प्रकार व प्रक्रियांविषयी





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	MAR420 2	मध्ययु गीन मराठी वाङ्म याचा इतिहास (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 Opportuni ties समीक्षक	PO1 Research- Related Skills: pso- साहित्याविषयीची प्राचीन, मध्ययुगीन, आधुनिक, भारतीय व पाश्चात्य विचारांबाबत समज वाढविण्यास मदत होईल. CO-मराठी वाङ्मयाची ऐतिहासिक सामाजिक धार्मिक आणि राजकीय पार्श्वभूमी लक्षात येईल.
	MAR420 3	भाषावि ज्ञान- सामाजि क	Languag e Skills सामाजिक बोली	Multi Language Skills समाज आणि मानसशास्त्र	Regional Language Skills स्त्रियांची भाषा पुरुषांची भाषा	Transleter s बहुभाषिक	PO3: Social competenc e: pso-भाषेचे विविध व्यवहार आणि साहित्याच्या व





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	MAR4204	दलित साहित्य	Language Skill दलित कथा	Multi Language Skills दलित कविता	Social & Regional Language Skills दलित आत्मकथन	Language Based Job Opportunities विश्लेषक	PO8: Critical Thinking and Problem solving: pso - एक जबाबदार नागरिक या दृष्टीने नैतिक व सामाजिक मूल्ये, साहित्य व सांस्कृतिक मूल्ये, राष्ट्रीय मूल्यांचे संवर्धन व समाजभान याविषयीची विद्यार्थ्यांची जाणीव विकसित होईल. CO- दलित साहित्य स्वरूप संकल्पनांचा परिचय होईल.





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M.A-II Sem. III	MAR530 1	प्रसारमाध्यमे आणि साहित्य व्यवहार	Language Skill वृत्तपत्रातील भाषा	Multi Language Skills चित्रपटातील भाषा	Social & Regional Language Skills समाज माध्यम मधील भाषा	Language Based Job Opportunities संपादक, दिग्दर्शक	
M.A-II Sem. III	MAR530 2	साहित्य समीक्षा	Language Skill समीक्षकाचे गुण	Multi Language Skills समीक्षकाचे पत्थे	Social & Regional Language Skills समीक्षेच्या विविध पद्धती	Language Based Job Opportunities समीक्षक विचारवंत	
M.A-II Sem. III	MAR530 3	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	
M.A-II Sem. III	MAR530 4	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	
M.A-II Sem. III	SDC-1	भाषिक कौशल्ये	Language Skills भाषिक कौशल्य	Multi Language Skills लेखन कौशल्य	Regional Language Skills संकलन	Translators	
M.A-II Sem. IV	MAR540 1	प्रसारमाध्यमे आणि साहित्य व्यवहार	Language Skill वृत्तपत्रातील भाषा	Multi Language Skills	Social & Regional Language Skills	Language Based Job Opportunities	





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				चित्रपटातील भाषा पटकथा लेखन	समाज माध्यम मधील भाषा	संपादक, दिग्दर्शक पटकथा लेखक	
M.A-II Sem. IV	MAR540 2	साहित्य संशोधन	Languag e Skill संशोधकाचे गुण	Multi Language Skills संशोधन परंपरा	Social & Regional Language Skills अंतर्विद्या क्षेत्रीय संशोधन	Language Based Job Opportuni ties संशोधक	
	MAR540 3	विशेष लेखका चा अभ्यास — मध्ययु गीन	Languag e Skill लेखन शैली	Multi Language Skills लेखकाची जडणघडण	Social & Regional Language Skills लेखकाची सामाजिकता सांस्कृतिक परिप्रेक्ष	Language Based Job Opportuni ties जीवन विषयक दृष्टिकोन	
	MAR540 4	साहि त्याचा सामाजि क दृष्टीने अभ्यास	Languag e Skill लेखकाची सामाजिकता	Multi Language Skills सामाजिक बांधिलकी	Social & Regional Language Skills लेखक वाचक आणि भाषा सहसंबंध	Language Based Job Opportuni ties संशोधक	
	SDC-2	भाषिक कौशल्ये	Languag e Skills भाषिक कौशल्य	Multi Language Skills लेखन कौशल्य	Regional Language Skills संकलन	Transleter s संवादक	

Criteria I : Curricular Aspects 2020-21





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PHILOSOPHY & LOGIC

Programe	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)	PHIL1 101	Introduction to Philosophy	Value of philosophy, Definition of knowledge	Value of philosophy, Definition of knowledge, Introduction to nine Darsanas	Value of philosophy, Introduction to nine Darsanas	Value of philosophy, Definition of knowledge, Introduction to nine Darsanas	PO1: Academic Competence: Explore various branches of Philosophy and their interrelations CO1: The study of Philosophy helps the students to get acquainted with different schools of Indian philosophy





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							hy CO2: Students learn new technical terminol ogies.
	PHIL1 201	Moral Philoso phy	Areas of Ethics	Areas of Ethics	Areas of Ethics	Areas of Ethics	PO1:Entrepren eural and Social Competence: Apply ethical theories and principles in real life situations. CO1:Studies ethics theoretically and on a large scale. This helps students to judge our day-to-today practical issues quite reasonably. CO2:To rise social awareness





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	LOG1 101	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
	LOG1 201	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: Research Competence: Logically assess the arguments with reference to their comparative strengths and weakness CO1: Students can understand characteristics of science CO2: Students well know how we can research scientifically CO3: Students can use the skills in competitive exam
	PHIL2 301	Philosophy of	Concept	Concept	Concept	Concept	CO1: Enhances critical





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		Indian Saints	ion of a Saint	on of a Saint	on of a Saint	ion of a Saint	thinking of students CO2: Understand key Philosophical foundation of the Saints intellectual tradition, particularly insofar the tradition has addressed issues of basic Philosophy. CO3: To acquaint the student with the metaphysical, Stereological and social approaches of selected saints.
	PHIL2 401	Philosophy of Indian Saints	Conception of God	Significance of Pasaydan	Conception of God	Significance of Pasaydan	CO1: Enhances critical thinking of students CO2: To acquaint the student with the metaphysical, Stereological and social





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							approaches of selected saints
	PHIL2 302	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 with different schools of Indian philosophy like Cārvāka, Jainism and Buddhism as Nāstika schools on the other hand, Sāṃkhya,





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							<p>Yoga, Nyāya, Vaiśeṣika, Mimāṃsā 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 them with the resolution of Value conflicts in today's life.</p>
PHIL2 402	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,





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							Plato, Descartes, Spinoza, Leibnitz , Locke, Berkeley Hume and Kant. CO2: Know core issues, problems and concerns in both Indian and Western traditions.
PHIL2 303	Jain Philoso phy	A Historic al Develop ment of Jainism	Nature of Anekant avada	Nature of Anekant avada	Six Dravyas (Jiva, Pudgal, Dharma , Adharm a, 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.	





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							CO2: Comprehend the theory of reality of the systems of Jain philosophy
PHIL2 403	Jain Philoso phy	Jain Dhyan and Yoga	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:Entrepre neurial and Social Competence: Develop an open minded approach and an attitude of respect for diverse opinions





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	LOG2 301	Formal Logic	Symboli c Logic	Symboli c Logic	Symboli c Logic	Symboli c Logic	<p>PO1: Personal and Professional Competence:</p> <p>Process information in a logically consistent manner so as to come up with their own position about a certain topic.</p> <p>CO1: Students get acquainted with the use of logical rules for identifying a valid argument. Along with these, they also learn existential import, symbolic interpretation, constructing formal proof of .validity, proving invalidity, Quantification theory</p> <p>CO2: Studies of logic improve the</p>
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							<p>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>
	LOG2 401	Formal Logic	Predicat e Logic	Predicate Logic		Relation al Logic	<p>PO1: Research Competence: Logically assess the arguments with reference to their comparative strengths and weaknesses.</p> <p>CO1: Students get acquainted with the use of logical rules for identifying a valid argument. Along with these, they also learn</p>





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							existential import, symbolic interpretation, constructing formal proof of .validity, proving invalidity, Quantification theory CO2: Studies of logic improve the analytical skills and knowledge of the formal techniques of evaluating arguments and deductive.
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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)	SAN1101	INTRODUCTION TO SANSKRIT LITERATURE-I		Gajastatra Nahayat-e- A Story from Panchatantra	Critical Study of Pandurang ashtakam	Introduction to Vedic Literature	CO1 - To learn the glimpses of Vedic Sanskrit Literature CO2 - To develop the ability to critically analyse and interpret Sanskrit texts PSO3. Disciplinary Knowledge:





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							Demonstrate a blend of traditional knowledge along with its application in the modern lifestyle.
	SAN1201	INTRODUCTION TO SANSKRIT-II		Danverah from Mahabharat		Sarvadharmaparishad	CO4 - To acquire research and inquiry skills CO5 - To cultivate personal and professional competence PSO.9 Ethics: Recogn





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							ize differe nt value system s, includi ng their own, underst and the moral dimens ions of their decisio ns, and take respons ibility for their actions.
SANG EN230 1	SANSKR IT PARICH AYA - 1	1.3 Shivarajgun avarnanam 2.2 Study of Krushi Parashara				1.4 Selection from Neetishatak a	CO2 - Explor e science in Sanskri t. CO1 - Create an interest and enthusi





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							asm to discover less-discovered Sanskrit Texts. PSO6. Human Perception and Behaviour: Learning Texts to understand human perception and behaviour is essential to improve decision making process.
	SANG EN2401	SANSKRIT PARICHAYA - 2		Yamyam		1.4 Dakalabधि	CO2 - Explore science





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							in Sanskri t. CO1 - Create an interest and enthusi asm to discove r less- discove red Sanskri t Texts. PSO6. Human Percept ion and Behavi our: Learnin g Texts to underst and human percept ion and behavi our is essenti al to improv e
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							decision making process.
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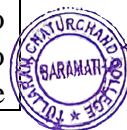
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SOCIOLOGY

Programme	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
			Local	National	Regional	Global	
F.Y.B.A	SOC1101 SOC1201	Introduction to Sociology	Sociology as a Science	Culture and Socialization	Social Stratification and Mobility	Social Control	COs: 1 Student will be able to explain social facts and society related concepts. COs: 2 Student will be able to define and explain sociological concepts. COs: 3 Student will be able to define and show social fact. COs: 4 Student will be able to express empirical observations with sociological concepts. Pos: 1 Student will be able to learn how to study the





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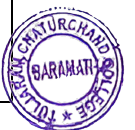
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							society scientificall y. Pos: 2 Student will be able to understand how the tools of analysis and methods of sociology are applicable to work and involvement in their community.
S.Y.B.A	SOC2 303	Indian Society : Issues and Problems	Caste and Gender	Problems of Minorities	Problems of Youth	Old Age Problems	COs: 1 Students are able to understand and social issues and are empowered to face social problems. COs: 2 Students are





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							able to understand and changing nature of social problems in India. Pos: 1 Students are able to analyze social issues and problems using different sociological perspectives.
	SOC2302	Foundation of Sociological Thought	Dominant Caste	Sanskritization	Theory of Class Struggle	Indology	COs: 1 Students are familiarized with social, political, economical





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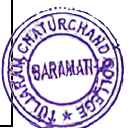
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							and intellectual contexts of emergence of Sociology. COs: 2 Students are able to understand social thoughts. Pos: 1 Students are familiarized with major perspectives and works of some Indian sociologists.
	SOC2 301	Population and Society	Fertility and Mortality	population and poverty	Nature and characteristics of Indian population	Migration	COs: 1 Students are able to understand the nature, scope and concepts related to population studies. COs: 2 Students are able to critically analyze the theoretical perspective of





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





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							knowledge regarding social variation crime and reactions to crime and the social consequences of this variation. COs: 3 Critically analyze the conceptual and empirical underpinning of research on the above topics. Pos: 1 Identify significant new research questions related to the study of crime in society.
	SOC3 503	Contemporary Indian Society	Changing nature of marriage,f	Economic Development	Agriculture in Post Independent	Debates around lesbian, gay,	COs: 1 Students are able to provide an





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			amily and household		ence India	bisexual, transgender & queer(LG BTQ)	Introductio n of Social Structure & Social Change. COs: 2 Students are able to understand the building of modern India as a nation in its complete complexity. Pos: 1 Comprehend the historical context to the current socio-economic trends and problems confronted by Contempor ary India.
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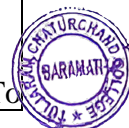
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BBACA

Programme	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)	BCA1101	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. Understanding formal logic helps students develop a structured approach to problem-solving. It enables them to break down complex problems into smaller, more manageable components. CO2. Fundamental concepts in propositional, predicate and temporal logic and apply resolution techniques. CO3. Students should be able to apply the concept of program verification in real-world scenarios PO1. Knowledge: To





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							understand and apply the fundamental principles, concepts, and methods in diverse areas of computer science, computer applications, management, mathematics, statistics, etc.
BC A 110 2	Data Structure using C	Searching, Sorting, Looping, Function, LinkedList, Stack, Queue	Searching, Sorting, Looping, Function, LinkedList, Stack, Queue	Searching, Sorting, Looping, Function, LinkedList, Stack, Queue	Searching, Sorting, Looping, Function, LinkedList, Stack, Queue	Searching, Sorting, Looping, Function, LinkedList, Stack, Queue	CO1: Define data structures like array, stack, queues and linked list. CO5. Choose appropriate data structure while designing the algorithm. CO7. Develop programming skills which require to solve given problem. PO2. Problem Analysis: Identify, analyse and formulate complex real-life computing





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							problems. Attain substantiated conclusions to solve the problems using fundamental principles of computer science and application domains by using various tools and emerging technologies.
BC A 110 3	Business Accounting	Financial Accounting, Accounting Policies, Journals Ledger	Financial Accounting, Accounting Policies, Journals Ledger	Financial Accounting, Accounting Policies, Journals Ledger	Financial Accounting, Accounting Policies, Journals Ledger	Financial Accounting, Accounting Policies, Journals Ledger	CO1. Define book-keeping and accounting. CO3. Describe the main elements of financial accounting information – assets, liabilities, revenue and expenses. CO7. Students will recognize commonly used financial statements, their





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							<p>components and how information from business transactions flows into these</p> <p>state ments 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>
BC A 110 4	Business Communi cation	Media of Communi cation, Oral Communi cation	Media of Communi cation, Oral Communi cation	Media of Communi cation, Oral Communi cation	Media of Communi cation, Oral Communi cation	Media of Communi cation, Oral Communi cation	<p>CO1. Communicate effectively in real life situation. CO2. Demonstrate the use of basic and advanced business writing skills.</p>





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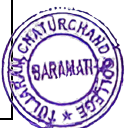
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							CO3. Produce clear and concise written business documents. CO4. Develop interpersonal communication skills that are required for social and business interaction. PO10. Communication: Able to use interpersonal skills and communicate effectively with the professionals and with society to convey technical information effectively and accurately and able to comprehend and write effective reports, design documentation,
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							and make effective presentations.
BC A 110 5	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	CO4. Analyze the role of planning and decision making. CO5. Utilize interpersonal communication and conflict management effectively in a diverse organizational setting CO6. Analyze how teams and groups act as supportive functions within organizational structures. CO7. Identify fundamental concepts and principles for managing organizations and employees. PO8. Life-Long Learning: Recognize the





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							need and have the ability to engage in independent continuous reflective learning in the context of technological advancement
BC A 110 6	Practical Lab-I [Based on BCA110 2 and BCA 1103]	Array, String, Function, Linked List Stack, Queue, Assignment using Tally.	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	CO1.Implement linear and nonlinear data structures using linked list. CO2.Apply various data structures such as stack, queue and tree to solve the problems. CO3.Implement various searching and sorting techniques. CO6. Design programs for solving problems using different data structures. CO7 Implement basic data structures and applications. Also learn





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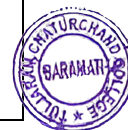
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							about the application of computers in accounting. PO4. Conduct investigations of complex problems: Ability to research, analyze and Investigate complex computing problems through the design of experiments, analysis, and interpretation of data, and synthesis of the information to arrive at valid conclusions.
BC A 120 1	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	Concepts of OOP, Inheritance, Classes and Objects, Working with files	CO1.Explain the basic concepts of object oriented programming language and their representation . CO2. Illustrate dynamic





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							memory allocation functions, access specifiers and the friend functions. CO3. Demonstrate the use of constructors, destructors and also the behavior of inheritance and its implementation. CO7. Develop an application using the concepts of OOPS and associated concepts for complex problem. PO3. Design and Development: Design and develop efficient solutions for complex real-world computing problems and design system components
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							or processes that meet the specified needs with appropriate consideration for public health and safety and the cultural, societal, and environmental considerations .
BC A 120 2	Database Management	Relational Model, Users, Views, Schema, DDL Command Recovery System	Relational Model, Users, Views, Schema, DDL Command Recovery System	Relational Model, Users, Views, Schema, DDL Command Recovery System	Relational Model, Users, Views, Schema, DDL Command Recovery System	Relational Model, Users, Views, Schema, DDL Command Recovery System	CO1. Understand the fundamental concepts of database, relation, relational models and algebra, SQL, and normalization algorithms CO2. Construct an Entity-Relationship (E-R) model from specification and transform it to a relational model. CO3. Analyze the principle input and





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							output parameters of DBMS as applicable to database manipulation strategies. CO4. Construct queries in SQL or relational Algebra to perform CRUD (Create Update, Retrieve and Delete) operations on 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
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							health and safety and the cultural, societal, and environmental considerations .
BC A 120 3	Software Engineering	Analysis and Design Tools, Software Models, Testing & Maintenance	Analysis and Design Tools, Software Models, Testing & Maintenance	Analysis and Design Tools, Software Models, Testing & Maintenance	Analysis and Design Tools, Software Models, Testing & Maintenance	Analysis and Design Tools, Software Models, Testing & Maintenance	CO2.Decompose the given project in various phases of a lifecycle. CO3.Analyze the suitability of chosen model using different UML diagrams for a given problem. CO4. Perform various life cycle activities like Analysis, Design, Implementation, Testing and Maintenance CO7.Apply the knowledge, techniques, and skills in the development



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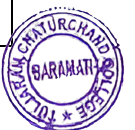
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							of a software product PO8. Life-Long Learning: Recognize the need and have the ability to engage in independent continuous reflective learning in the context of technological advancement.
	BC A 120 4	Technical Report Writing	Structure and Layout, 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. Students will learn to write technical reports that serve the purpose of providing clearly





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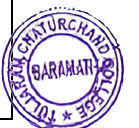
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							<p>understandable information for readers</p> <p>CO4. Students will also learn and apply easy writing techniques that will reduce their report writing time and will improve the quality of their writing.</p> <p>PO8. Life-Long Learning: Recognize the need and have the ability to engage in independent continuous reflective learning in the context of technological advancement.</p> <p>PO10. Communication: Able to use interpersonal skills and communicate effectively with the professionals</p>
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							and with society to convey technical information effectively and accurately and able to comprehend and write effective reports, design documentation, and make effective presentations.
BC A 120 5	Business Commer ce	Functions of E- commerc e, Electroni c Business, Electroni c payment System, Internet Marketin g	Functions of E- commerc , Electronic Business, Electronic payment System, Internet Marketing	Functions of E- commerc , Electronic Business, Electronic payment System, Internet Marketing	Functions of E- commerc , Electronic Business, Electronic payment System, Internet Marketing	Functions of E- commerc , Electronic Business, Electronic payment System, Internet Marketing	CO1. Gain an understanding on how innovative use of the Business Commerce can help developing competitive advantages. CO2. Understand the basics of E-commerce, current and emerging business models.





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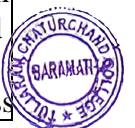
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							CO6. Understand the importance of security, privacy, ethical and legal issues of e-commerce. CO7. Understand the implementation of Electronic Data Interchange (EID) in day to day life. PO1. Knowledge: To understand and apply the fundamental principles, concepts, and methods in diverse areas of computer science, computer applications, management, mathematics, statistics, etc.
BC A 120 6	Practical Lab- II	Inheritance, Function	Inheritance, Function	Inheritance, Function	Inheritance, Function	CO1.Implement object oriented concepts such as objects, class	





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		[Based on BCA120 1 and BCA120 2]	Overloadi ng, file handling	Overloadi ng, file handling	Overloadi ng, file handling	Overloadi ng, file handling	abstraction and message passing CO5.Demonstra te SQL queries using SQL operators and Explain the concept of relational algebra. CO6.Implemen various queries using date and group functions and elaborate nested queries. 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. PO3. Design and Development: Design and develop efficient solutions for complex real-world computing problems and design system components or processes that meet the specified needs with appropriate consideration for public health and safety and the cultural, societal, and environmental considerations.
BC A 230 1	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	Introduction to JAVA, Applet, AWT and Swing Programming	CO5. Able to develop multithreaded applications with synchronization. CO6. Able to develop applets for





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							web applications. CO7. Develop software in the Java programming language. PO2. Problem Analysis: Identify, analyse and formulate complex real-life computing problems. Attain substantiated conclusions to solve the problems using fundamental principles of computer science and application domains by using various tools and emerging technologies. PO3. Design and Development: Design and develop efficient solutions for complex real-
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							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.
BC A 230 2	Web Technologies	HTML5, Canvas, CSS3, jQuery, JavaScript	HTML5, Canvas, CSS3, jQuery, JavaScript	HTML5, Canvas, CSS3, jQuery, JavaScript	HTML5, Canvas, CSS3, jQuery, JavaScript	HTML5, Canvas, CSS3, jQuery, JavaScript	CO2. Communicate effectively through written and oral means, demonstrating the ability to document and present web development projects. CO3. Students should be able to create responsive web designs. CO4. Students





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							should be able to comprehend the basic concepts of the World Wide Web, Including the client-server architecture, protocols (HTTP/HTT PS), and the role of web browsers. PO2. Problem Analysis: Identify, analyse and formulate complex real-life computing problems. Attain substantiated conclusions to solve the problems using fundamental principles of computer science and application domains by using various tools and emerging technologies.
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							PO3. Design and Development: Design and develop efficient solutions for complex real-world computing problems and design system components or processes that meet the specified needs with appropriate consideration for public health and safety and the cultural, societal, and environmental considerations .
BC A 230 3	Python Program ming	Modules, Function, list Tuple, Set, Dictionar y	Modules, Function, list Tuple, Set, Dictionar y	Modules, Function, list Tuple, Set, Dictionar y	Modules, Function, list Tuple, Set, Dictionar y	Modules, Function, list Tuple, Set, Dictionar y	CO2.Design and develop Python applications. CO3. Design and implement functions for code modularity, reusability, and maintainabilit





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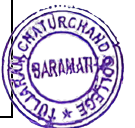
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							y. CO4. Apply principles of OOP, including classes, objects, inheritance, encapsulation, and polymorphism, in Python programming. PO2. Problem Analysis: Identify, analyse and formulate complex real-life computing problems. Attain substantiated conclusions to solve the problems using fundamental principles of computer science and application domains by using various tools and emerging technologies. PO3. Design and Development:
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							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 .
	BC A 230 4	Operating System	Memory Management, process management Basics of Linux, Scheduling Algorithms	Memory management, process management, Basics of Linux, Scheduling Algorithms	Memory Management, process management, Basics of Linux, Scheduling Algorithms	Memory management, process 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.





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							CO6. Understand the concepts of secondary storage structure, protection and case study of Linux operating system. PO1. Knowledge: To understand and apply the fundamental principles, concepts, and methods in diverse areas of computer science, computer applications, management, mathematics, statistics, etc.
BC A 230 5	Business Statistics using R Programming	Probability and Probability distributions, Programming in R	Probability and Probability distributions, Programming in R	Probability and Probability distributions, Programming in R	Probability and Probability distributions, Programming in R	Probability and Probability distributions, Programming in R	CO1. Develop proficiency in using statistical tools and software CO2. Apply mathematical and statistical techniques to





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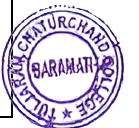
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							analyze and interpret data. PO1. Knowledge: To understand and apply the fundamental principles, concepts, and methods in diverse areas of computer science, computer applications, management, mathematics, statistics, etc. PO2. Problem Analysis: 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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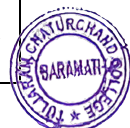
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							emerging technologies.
BC A 230 6	Computer Laboratory I (Based on BCA 2301 & BCA 2302)	Applet, AWT and Swing Programming HTML5, CSS3, jQuery, JavaScript	Applet, AWT and Swing Programming HTML5, CSS3, jQuery, JavaScript	Applet, AWT and Swing Programming HTML5, CSS3, jQuery, JavaScript	Applet, AWT and Swing Programming HTML5, CSS3, jQuery, JavaScript	Applet, AWT and Swing Programming HTML5, CSS3, jQuery, JavaScript	CO2: Apply JDBC techniques to analyze and interpret data.CO3: Apply knowledge of Servlet Programming and JSP to solve real-world problems. CO6: Apply Web Services and Programming Interfaces and methods to design experiments and analyze data. PO3. Design and Development: Design and develop efficient solutions for complex real-world computing problems and design system components





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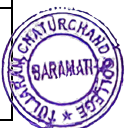
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							or processes that meet the specified needs with appropriate consideration for public health and safety and the cultural, societal, and environmental considerations . PO4. Conduct investigations of complex problems: Ability to research, analyze and Investigate complex computing problems through the design of experiments, analysis, and interpretation of data, and synthesis of the information to arrive at valid conclusions.
BC A	Computer Laborato	String, List, Tuple	String, List, Tuple	String, List, Tuple	String, List, Tuple	String, List, Tuple	CO2. Demonstrate programming





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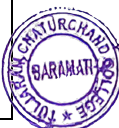
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	230 7	ry based on (BCA23 03, BCA230 5)	Dictionar y, Set, Modules, Vector, List, Matrix, Data Frame, Factor	Dictionar y, Set, Modules, Vector, List, Matrix, Data Frame, Factor	Dictionar y, Set, Modules, Vector, List, Matrix, Data Frame, Factor	Dictionar y, Set, Modules, Vector, List, Matrix, Data Frame, Factor	skills using String, List, Tuple, Dictionary, Set for Python Programming. CO3. Write programs using Modules in Python Programming. CO4. Get familiar with R-Software and Learn basics of R- Programming CO5. Understand the Basics in R- Programming in terms of control statements, String Functions PO3. Design and Development: Design and develop efficient solutions for complex real- world computing problems and design system components
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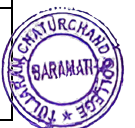
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							or processes that meet the specified needs with appropriate consideration for public health and safety and the cultural, societal, and environmental considerations . PO4. Conduct investigations of complex problems: Ability to research, analyze and Investigate complex computing problems through the design of experiments, analysis, and interpretation of data, and synthesis of the information to arrive at valid conclusions.
BC A	Advanced Java	JDBC, JSP, Servlet,	JDBC, JSP, Servlet,	JDBC, JSP, Servlet,	JDBC, JSP, Servlet,	CO1. Learn to access database	





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	240 1		Networki ng	Networki ng	Networki ng	Networki ng	using Java Data Base Connectivity in Java programs. CO2. Develop multithreaded application with synchronizati on. CO3. Explore and understand Java Server Pages. CO4. Develop dynamic webpages using Servlets. PSO2. Problem Analysis: Identify, analyse and formulate complex real- life computing problems. Attain substantiated conclusions to solve the problems using fundamental
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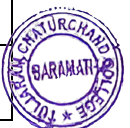
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							principles of computer science and application domains by using various tools and emerging technologies. PO3. Design and Development: Design and develop efficient solutions for complex real-world computing problems and design system components or processes that meet the specified needs with appropriate consideration for public health and safety and the cultural, societal, and environmental considerations.
	BC A	Advanced Web	XML, Ajax with	XML, Ajax with	XML, Ajax with	XML, Ajax with	CO6. Dynamically





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	240 2	Technologies	PHP, Web Services	PHP, Web Services	PHP, Web Services	PHP, Web Services	access and update PHP applications using XML. CO7. Students will be able to develop interface a PHP script with a MySQL database. PO2. Problem Analysis: Identify, analyse and formulate complex real-life computing problems. Attain substantiated conclusions to solve the problems using fundamental principles of computer science and application domains by using various tools and emerging technologies. 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.
BC A 240 3	Mathematical Foundation for Data Science	Vectors, Matrices, Sets	Vectors, Matrices, Sets	Vectors, Matrices, Sets	Vectors, Matrices, Sets	CO4. Apply the knowledge of matrices to solve the problem. CO5. Utilize applications of matrices to solve industrial problem.	



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							<p>PO1. Knowledge: To understand and apply the fundamental principles, concepts, and methods in diverse areas of computer science, computer applications, management, mathematics, statistics, etc.</p> <p>PO2. Problem Analysis: Identify, analyse and formulate complex real-life computing problems. Attain substantiated conclusions to solve the problems using fundamental principles of computer science and application domains by using various tools and emerging technologies.</p>
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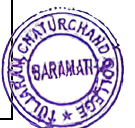
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	BC A 240 4	Software Testing and Quality Assurance	Software Testing, JUnit (TestNG)	Software Testing, JUnit (TestNG)	Software Testing, JUnit (TestNG)	Software Testing, JUnit (TestNG)	CO2. Analyze the design of test cases for different testing techniques. CO3. Create test strategies and plans, design test case, prioritize and execute them CO4. Test the software by applying testing techniques to deliver a product free from bugs. 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
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							information to arrive at valid conclusions. PO5. Modern Tool Usage: Create, identify and apply appropriate techniques, skills, and modern computing tools to computing activities.
BC A 240 5	Networki ng	Topologie s, Network Types, TCP/IP Model, Transmiss ion Media, IP Address and Routing	Topologie s, Network Types, TCP/IP Model, Transmiss ion Media, IP Address and Routing	Topologie s, Network Types, TCP/IP Model, Transmiss ion Media, IP Address and Routing	Topologie s, Network Types, TCP/IP Model, Transmiss ion Media, IP Address and Routing	Topologie s, Network Types, TCP/IP Model, Transmiss ion Media, IP Address and Routing	CO4. Apply the knowledge of different network design and various logical models of networking to solve problems of communication over different transmission medium. CO5. Get knowledge of various error detection and correction technique to avoid





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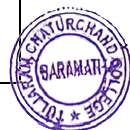
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							collision and error problem. CO6. Analyze various routing concepts with routing protocol to develop network related application for future need. PO8. Life-Long Learning: Recognize the need and have the ability to engage in independent continuous reflective learning in the context of technological advancement.
BCA 2406	Computer Laboratory based on (BCA2401 and BCA2402)	JDBC, JSP, Servlet, Ajax, XML, WordPress	JDBC, JSP, Servlet, Ajax, XML, WordPress	JDBC, JSP, Servlet, Ajax, XML, WordPress	JDBC, JSP, Servlet, Ajax, XML, WordPress	JDBC, JSP, Servlet, Ajax, XML, WordPress	CO3. Develop client server applications using SOCKET Programming CO5. Design interactive programs using AJAX





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								& PHP, XML. CO6. Design interactive website using Word press. PO3. Design and Development: Design and develop efficient solutions for complex real-world computing problems and design system components or processes that meet the specified needs with appropriate consideration for public health and safety and the cultural, societal, and environmental considerations. 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.
BC A 240 7	Computer Laboratory based on (BCA2404 and BCA2405)	TestNG Framework, Web elements, Locators, Packet Tracer	TestNG Framework, Web elements, Locators, Packet Tracer	TestNG Framework, Web elements, Locators, Packet Tracer	TestNG Framework, Web elements, Locators, Packet Tracer	TestNG Framework, Web elements, Locators, Packet Tracer	CO1. Understanding Selenium and TestNG tool to perform Automation testing CO2. Design Effective test cases that can uncover ethical defects in the applications. CO5. Understand and develop various applications on packet tracer. CO6. Understand





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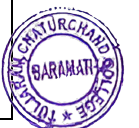
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							network devices, IP, Commands & Switching techniques. CO7.Learn routing concepts along with protocols. PO3. Design and Development: Design and develop efficient solutions for complex real-world computing problems and design system components or processes that meet the specified needs with appropriate consideration for public health and safety and the cultural, societal, and environmental considerations. PO5. Modern Tool Usage: Create, identify and
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							apply appropriate techniques, skills, and modern computing tools to computing activities.
	PR-22	Project	Software Development	Software Development	Software Development	Software Development	CO3. Identify, plan, analyze, design and implement software project required in society. CO4. Take initiatives, communicate, work in a team and manage a project within a given time span. CO5. Demonstrate the ability to find and use the technical information from multiple sources. CO6. Handle power point presentations creatively. CO7. Empower themselves





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							to present project report and communicate effectively. PO8. Life-Long 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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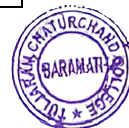
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COMMERCE

Progr amme	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				Pos, PSO's & Cos
			Local	National	Regional	Global	
B.Com	COMFA1 101	Financial Accounti ng I	Accounti ng Principle s	conversi on of partnersh ip firm	Consign ment Accounti ng Process and books maintains	Accounti ng standards	CO1.Indepe ndent learning : Demonstr ate the ability to acquire knowledge and business skills, the capacity for self- directed activity and the ability to work independent ly
B.Com	COMED1 104B	Entrepren eurship Develop ment I	entrepren eurship Develop ment	Regional Imbalanc e	Regional Imbalanc e	Economi c Develop ment	PO2.This course will offer the fundamenta ls of starting and operating business. It will provide special opportunitie s for women entrepreneu rs.





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B.Com	COMCP1 106A	Consumer Protection and Business Ethics I	Problem of Consumer	Consumer Protection Act	Consumer and Consumer Movement	Voluntary Consumer Organization	PO3.This will help the students to make them aware about the concept of consumerism and rights of consumer.
B.Com	COMMS1 106B	Marketing And Salesmanship I	Principles of marketing salesmanship	Service marketing	Service marketing	International Marketing	PO4.Communication Skill : Able to communicate effectively, analyse the concepts and participate in healthy arguments and portray skill in communication and in writing. Possess skills related with banking and other business.
B.Com	COMFA1 201	Financial Accounting II	Accounting Records Skills	GST Accounting Records Procedures	Higher Purchase Accounting system	Accounting standards	PO3.Independent learning : Demonstrate the ability to acquire





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B.Com	COMED1 204B	entrepreneurship Development II	Women Entrepreneurs	Autobiography of Entrepreneurs	Women Entrepreneurs	Women Entrepreneurs	PO1.The students can understand the traits and qualities of entrepreneurs. It will provide special opportunities for women entrepreneurs.
B.Com	COMCP1 206A	Consumer Protection and Business Ethics II	Business Ethics	Corporate Social Responsibility	Current Issues of Business Ethics	Corporate Governance and Business Ethics	CO2.It would also enable the students about various laws related to consumer protection in India.
B.Com	COMMS1 206B	Marketing And Salesmanship II	Rural Marketing	Digital Online marketing	Challenges of Marketing	International Marketing	CO2.Independent learning : Demonstrate the ability to acquire





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							knowledge and business skills, the capacity for self directed activity and the ability to work independent ly
B.Com	COMBC2 301	Business Communi cations I	Basic Communi cation Skills	Oral Presentat ion Skills	Barriers to Communi cations	Soft Skills	CO1.Comm unication Skill : Able to communica te effectively, analyse the concepts and participate in healthy arguments and portray skill in communica tion. Possess skills related with banking and other business.





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B.Com	COMCA2 302	Corporate Accounting I	Company Final Account	Holding Company	Valuation of Shares	Accounting Standard	CO2.The course will help the students to get a thorough knowledge about corporate accounting. It would also enable the students to know about application of accounting standards, concept of holding and subsidiary companies.
B.Com	COMBM2 304	Business Management I	Business Planning, Motivation, Leadership	Recent trends in Management, Motivation, Leadership	Performing management Functions, Motivation, Leadership	Understanding Global Business management challenges and practices, Motivation, Leadership	CO2.This will provide an understanding about recent trends in business management also Leadership quality
B.Com	COMCL2 305	Elements of company Law I	Company Act	Incorporation of a Company	Capital of Company	Transfer of Shares	CO2.This Course help to getting the





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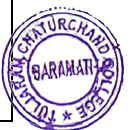
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							knowledge of fundamentals of Company Law
B.Com	COMMM 2306A	Marketing Management I	Retail marketing, Elements of Marketing Management, Marketing Communication, Marketing Environment and Marketing Segmentation	Current Marketing Environment in India, Elements of Marketing Management, Marketing Communication, Marketing Environment and Marketing Segmentation	Current Marketing Environment in India, Elements of Marketing Management, Marketing Communication, Marketing Environment and Marketing Segmentation	Elements of Marketing Management, Marketing Communication, Marketing Environment and Marketing Segmentation	CO3.Students will be demonstrate the ability to acquire knowledge and business skills the capacity for self directed activity and the ability to work independently.
B.Com	COMCW A2306B	Cost and Works Accounting I	Elements of cost	material Control	Tender and cotations	Just in time Overheads	PO3.Independent learning : Demonstrate the ability to acquire knowledge and business skills, the capacity for





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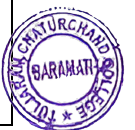
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							self directed activity and the ability to work independently. Knowledge and Critical Thinking : Acquire skills in organizing, analysing, evaluating and presenting information .
B.Com	COMBC2401	Business Communications II	Basic Communication Skills, Letter Writing	Report Writing	Business Correspondence	International Correspondence	PO1.Communication Skill : Able to communicate effectively, analyse the concepts and participate in healthy arguments and portray skill in writing. Possess skills related with banking and other business.





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B.Com	COMCA2 402	Corporate Accounting II	Inventory Accounting and Pay roll Accounting	Liquidation of company	Amalgamation and Absorption	Accounting for construction	PO2.The students to get knowledge about corporate accounting procedure such as reconstruction of companies, amalgamation and absorption of companies.
B.Com	COMBM2 404	Business Management II	Co- ordination, Control	Recent trends in Co- ordination, Control	Performing Co- ordination, Control	Understanding Global Business management - Co- ordination, Control, Recent Trends	CO3.Exhibit qualities associated with leadership such as accountability, integrity, respect, self- reflection,
B.Com	COMCL2 405	Elements of company Law II	Company Formation	Incorporation of a Company	Environment Issues.	Corporate social Responsibilities	CO2.Update the knowledge of provisions of the Companies Act of 2013





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B.Com	COMMM 2406A	Marketing Management II	Green Marketing, marketing planning, Marketing Information System and marketing research	Green Marketing g, marketing g planning, Marketing g Information System and marketing g research, e- marketing g	Green Marketing g, marketing g planning, Marketing g Information System and marketing g research, e- marketing g	Green Marketing g, marketing g planning, Marketing g Information System and marketing g research, e- marketing g	PO3.Studen ts will be demonstrate the ability to acquire knowledge and business skills the capacity for self directed activity and the ability to work independent ly
B.Com	COMCW A2406B	Cost and Works Accounti ng II	Materiaial Accounti ng	Remuner ation and Incentive s	Inventory Control	Just in time Overhea ds	PO3.Able to analysis issues logically, consider different options and viewpoints, make decisions and act with flexibility, adaptability and creativity.
B.Com							



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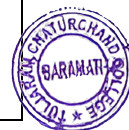
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B.Com	301	Business Regulatory Framework	Indian Contract Act, Geographical Indications	Partnership firm & LLP Procedures, Consumers Complaints Issues	Agencies, Sale of goods Act, Trademark, copy Right Issues	Global Issues, Patents Procedures	3. Knowledge and Critical Thinking : Acquire skills in organizing, analysing, evaluating and presenting information . Able to analysis issues logically, consider different options and viewpoints, make decisions and act with flexibility, adaptability and creativity.
B.Com	302	Advanced Accounting	Final Account of Cooperative Society, Final Account of Banking Companies	GST, Single Entry System	Ratio Analysis, Ecommerce entity	Forensic Accounting, Accounting Standards	PO3. This help students to getting the knowledge of fundamentals of accounting and update the knowledge of provisions





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							of the Maharashtra a Cooperative Society Act of 1960, Students will be demonstrate the ability to acquire knowledge to analysis issues logically, consider different options and viewpoints, make decisions
B.Com	304	Auditing & Taxation	Audit Programme Residential status and computation of Income Tax	verification and Valuation of Assets, Residential status and computation of Income Tax	Audit Report, Residential status and computation of Income Tax	Auditing and Assurance Standard, Residential status and computation of Income Tax	PO2. Students will be demonstrate the ability to acquire knowledge and business skills, the capacity for self directed activity and the ability to work independently. It will help students to get knowledge





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							about Income Tax Act and also get away regarding provision of residential status and incident of tax
B.Com	305	Marketing Management II	Rural Marketing Issues, Agree Products	Social Responsi bilities	Marketing Issues, Industrial Marketing Issues	Global Marketing Issues	CO2.Independent learning : Demonstrate the ability to acquire knowledge and business skills, the capacity for self directed activity and the ability to work independently
B.Com	306	Marketing Management III	Advertisement, Marketing organization	Trademark, Marketing Strategies	Brand Management, Marketing Regulation	E advertisement, Globalization	CO3.It would enable the students to acquaint the recent trends in the field of marketing. This will help the students to get in depth knowledge





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							of marketing and salesmanship and its application in today's world.
B.Com	305	Cost and Works Accounting II	Accounting of Overhead, Contract costing	Absorption, Process Costing	Activity base Costing, Service Costing	Job costing, Lifecycle Costing	CO1.Acquire skills in organizing, analysing, evaluating and presenting information.
B.Com	306	Cost and Works Accounting III	Marginal Costing, Standard Costing	Budgetary Costing, Nonintegrated Accounting	Uniform Costing, Cost Accounting Record Rules	MIS in Costing, Cost Audit	CO2.It would enable the students to acquaint the recent trends in the field of costing.
M. Com	COMMA4101	Management Accounting	Application of Management Accounting	Ratio Analysis, Working Capital	Ratio Analysis, Working Capital	Ratio Analysis, Working Capital	CO2.This will help the students to get in-depth knowledge about Management Accounting and its importance.





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M. Com	COMSM4102	Strategic Management	Strategic Planning	Marketing Strategies	Development of Strategies	Implementation of Strategies at Global level	CO3.The course will help the students to get a thorough knowledge about strategic management.
M. Com	COMAA4103	Advance Accounting	Accounting Principles	Accounting Standards	Accounting Standards	IFRS	CO2.The course will help the students to get deep knowledge about basic accounting concepts which are universally accepted. He also aware about the accounting standards used in India.
M. Com	COMIA4104	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	PO2.It will help students to get knowledge about Income Tax Act and also get away regarding provision of





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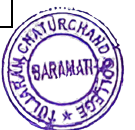
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							residential status and incident of tax
M. Com	COMFAC 4201	Financial Analysis and Control	Cost of Capital, Marginal Costing	Budget, Budgetary Control	Budget, Investment Decision	Budget, Investment Decision	PO2.This will help the students to enable students to acquire sound knowledge of Concepts, methods and techniques of management accounting
M. Com	COMIE4202	Industrial Economics	Industrial Location issues	Industrial Efficiency and Productivity	Regional Industrial Imbalance	Foreign Capital	CO2.The course will be able to apply economic theories and methodologies in Industrial Location issues in various determinants of the size and structure of industries.





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M. Com	COMSAA 4203	Specialized Areas in Accounting	Accounting Standards	Accounting Standards	IFRS	IFRS	CO3.The course will help the students to get knowledge about International Financial Reporting Standards. It would be aware about the accounting treatments for corporate restructuring.
M. Com	COMBTA P4204	Business Tax Assessment and Planning	Assessment and Planning	GST	GST	GST	CO2.It would enable the students to acquaint the recent trends in the field of Business Tax Assessment and Planning.
M. Com							





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M. Com	COMBF5301	Business Finance	Sources of Finance	Financial Planning	Working Capital Management	Equity and Debt	CO2. Students will understand the characteristics of different financial assets such as money market instruments, bonds, and stocks and how to buy and sell these assets in Capital Markets.
M. Com	COMRM B5302	Research Methodology for Business	Research methodology	Research methodology	Research methodology	Research methodology	CO3. The course offers to the undergraduate students to learn about the various applications of research methodology, role of research methodology in the business.





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M. Com	COMAA5303	Advanced Auditing	Auditing	Audit of Limited Companies	Corporate Governance	CIS Environment	PO3.This course will enable students about audit process and procedure to be conducted in corporate sector. Course will also make them able to find out the frauds and errors which may occur in various types of companies.
M. Com	COMAA5304	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	PO2.Students will be acquiring skills in organizing analysing evaluating and presenting information skill



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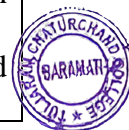
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M. Com	COMCMF S5401	Capital Market and Financial services	Capital Market, Stock Market, Financial Services, Regulatory Framework for Financial Services	Capital Market, Stock Market, Financial services, Regulatory Framework for Financial Services	Capital Market, Stock Market, Financial services, Regulatory Framework for Financial Services	Capital Market, Stock Market, Financial services, Regulatory Framework for Financial Services	PO2.Students will be knowledgeable of domestic and international economy and organizational environment knowledge of ethics and ethical standard
M. Com	COMIEE5 402	Industrial Economic Environment	Industrialization	Economic Environment	Industrial Pollution	Stand up and Startup	PO2.This course will understand the basic concepts of Industrial Finance. It will develop awareness regarding various industrial and environmental issues in India.
M. Com	COMRAA TA5403	Recent Advances In Accounting Taxation and Audit	Recent Trends in Accounting, Frauds and Errors	GST and Carbon Credit	Accounting for Government and Non-government organization	Accounting and Audit Procedure for Corporate Affairs	PO2.This course will enable students about recent trends in accounting, auditing and taxation





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							field. Course will also make them able to find out the frauds and errors which may occur in various sectors.
M. Com	COMPW5404	Project Work	Survey	Analytical reporting	Societal use	Analytical reporting	PO1.This course will enhance research, analytical and research reporting skills among the students
M. Com	COMCMF S5401	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	CO2.Students will be knowledgeable of domestic and international economy and organizational environment knowledge of ethics and ethical standard





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M. Com	COMIEE5 402	Industrial Economic Environment	Industrialization	Economic Environment	Industrial Pollution	Stand up and Startup	CO2.This course will understand the basic concepts of Industrial Finance. It will develop awareness regarding various industrial and environmental issues in India.
M. Com	COMRAA TA5403	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	Accounting and Audit Procedure for Corporate Affairs	PO3.This course will enable students about recent trends in accounting, auditing and taxation field. Course will also make them able to find out the frauds and errors which may occur in various sectors.
M. Com	COMPW5 404	Project Work	Survey	Analytical reporting	Societal use	Analytical reporting	CO3.This course will enhance research, analytical





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							and research reporting skills among the students
DTL	PGDTL-101	General Law Affecting Taxation	Legal Provisions	HUF	Indian constitution	International Law	CO3.This course will help students to acquire the knowledge about the constitution of India and knowledge of other related general laws. Students will be acquainted by the sources of laws, basic idea of Constitution of India and Hindu Succession Act 1956.





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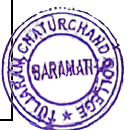
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DTL	PGDTL-102	Income Tax	Residential status and computation of Income Tax	Residential status and computation of Income Tax	Residential status and computation of Income Tax	Residential status and computation of Income Tax	CO1.The course will help the students to get thorough knowledge about Income Tax Act. It would also enable the students to know about computation of Income from Salary, House property, Business Income, capital gain etc. and Tax liability.
DTL	PGDTL-103	Integrated Goods and Services Tax	GST Awareness and registration	Types of GST	GST Return filing	Input Tax credit	3.Students can also acquire practical skills to work as tax consultant, audit assistant and other financial supporting services. Students will complete a





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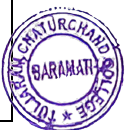
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							Project/ Written Assignment that integrates career orientation and or professional developmen t skills.
DTL	PGDTL- 104	Custom Act	Registrat ion	Process of appeal	Calculati on of custom duty	Identifica tion of legal and illegal goods	CO3.Studen ts would acquire knowledge about the legal framework and the ways and means to deal with the legal aspect of different situations under Custom Act.
DTL	PGDTL- 105	Business Accounti ng Practices	Principle s and practices	Subsidiar y books	Bank reconcili ation statement	Preparati on of Financial statement s	CO1.The course structure of this paper would equip the students to get in- depth knowledge of financial accounting along with





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							its practical application thereby giving an opportunity to gain easy access to this competitive business world.
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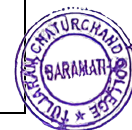
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BOTANY

Programme	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
			Local	National	Regional	Global	
S. Y. B.Sc. Sem. III	BOT 2301	Taxonomy of Angiosperms	Knowledge of identification of plants and their nomenclature.	Knowledge of identification of plants and their nomenclature.	Knowledge of identification of plants and their nomenclature.	Knowledge of identification of plants and their nomenclature.	PO1: Disciplinary Knowledge CO1. Describe the morphology and reproductive structure of Phanerogams.
	BOT 2302	Plant Physiology	Physiological processes occurring in plants.	Physiological processes occurring in plants.	Physiological processes occurring in plants.	Physiological processes occurring in plants.	PO 4: Research-related skills and Scientific temper CO5. Get knowledge of plant metabolism.
	BOT 2303	Practical based on BOT 2301 and	Physiological processes qualitatively and quantitatively.	Physiological processes qualitatively and quantitatively.	Physiological processes qualitatively and quantitatively.	Physiological processes qualitatively and quantitatively.	PO 4: Research-related skills and Scientific temper. CO2. Train in cell biology techniques.





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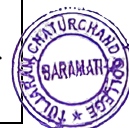
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		BOT					
		2302					
S. Y. B.Sc. Sem. IV	BOT 2401	Anatomy and Embryology	Developmental aspects of male gamete, female gamete, fertilization and embryo development.	Developmental aspects of male gamete, female gamete, fertilization and embryo development.	Developmental aspects of male gamete, female gamete, fertilization and embryo development.	Developmental aspects of male gamete, female gamete, fertilization and embryo development.	PO2: Critical Thinking and Problem Solving. CO5. Students are able to know reasons for anomalous secondary growth in plants.
	BOT 2402	Plant Ecology	Plant relation with the environment and impact assessment.	Plant relation with the environment and impact assessment.	Plant relation with the environment and impact assessment.	Plant relation with the environment and impact assessment.	PO2: Critical Thinking and Problem Solving CO1. The student can analyse and interpret the plant relation with the environment and impact of human interventions on ecosystem.
	BOT 2403	Practical based on BOT	Detail developmental changes of embryology	Detail developmental changes of embryology	Detail developmental changes of embryology	Detail developmental changes of embryology	PO 4: Research-related skills and Scientific temper





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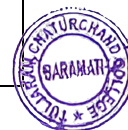
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		2401 and BOT 2402	gical processes.	gical processes.	gical processes.	gical processes.	CO4. Students are expertise in sectioni ng and staining techniq ue.
M.Sc. II Sem. III	BOT 5301	Angiospe rms and Evolution	Knowledg e of morpholo gical and taxonomi cal awareness of local flora.	Knowledg e of morpholo gical and taxonomi cal awareness of local flora.	Knowledg e of morpholo gical and taxonomi cal awareness of local flora.	Knowledg e of morpholo gical and taxonomi cal awareness of local flora.	PO1: Disciplinary Knowledge. CO6. Describe and identify the floweri ng plants.
	BOT 5302	Develop mental Botany	Knowledg e of different embryolo gical technique s.	Knowledg e of different embryolo gical technique s.	Knowledg e of different embryolo gical technique s.	Knowledg e of different embryolo gical technique s.	PO1: Disciplinary Knowledge. CO1. Describe the morphology and reproductive structure of Phanerogams.
	BOT 5303	Computat ional Botany	Use of computer for biological data analysis.	Use of computer for biological data analysis.	Use of computer for biological data analysis.	Use of computer for biological data analysis.	PO1: Disciplinary Knowledge. CO3. Students will apply their knowledge in various





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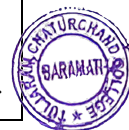
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							branches of biology.
	BOT 5304 1	Advances in Plant Physiology	Instrumentation useful in physiological techniques.	Instrumentation useful in physiological techniques.	Instrumentation useful in physiological techniques.	Instrumentation useful in physiological techniques.	PO 4: Research-related skills and Scientific temper. CO7. Students get knowledge of biomolecules.
	BOT 5304 2	Advances in Mycology and Plant Pathology	Classification and taxonomy of fungi.	Classification and taxonomy of fungi.	Classification and taxonomy of fungi.	Classification and taxonomy of fungi.	PO 8: Environment and Sustainability CO6. Aware about plant conservation in society.
	BOT 5305	Practical's Based on BOT 5301,5302 and 5303	Innovative Ex-situ conservation techniques.	Innovative Ex-situ conservation techniques.	Innovative Ex-situ conservation techniques.	Innovative Ex-situ conservation techniques.	PO1: Disciplinary Knowledge. CO1. Knowledge of bryophytes at different localities.
	BOT 5306 1	Practical's based on special	Experimental methodologies for crop	Experimental methodologies for crop	Experimental methodologies for crop	Experimental methodologies for crop	PO1: Disciplinary Knowledge. CO5. Get knowledge of





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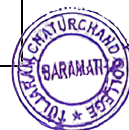
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		paper Advances in Plant Physiology	physiology.	physiology.	physiology.	physiology.	plant metabolism.
	BOT 5306 2	Practical's based on special paper Advances in Mycology and Plant Pathology	Identification of fungi and preparation of their pure culture.	Identification of fungi and preparation of their pure culture.	Identification of fungi and preparation of their pure culture.	Identification of fungi and preparation of their pure culture.	PO 9: Self-directed and Life-long Learning. CO7. Analyze industrial applications of algae.
M.Sc. II Sem. IV	BOT 5401	Plant Pathology	Knowledge about agricultural crop diseases.	Knowledge about agricultural crop diseases.	Knowledge about agricultural crop diseases.	Knowledge about agricultural crop diseases.	PO 3: Social competence. CO3. Agricultural crop diseases.
	BOT 5402	Industrial Botany	Knowledge about different technologies and use in industries.	Knowledge about different technologies and use in industries.	Knowledge about different technologies and use in industries.	Knowledge about different technologies and use in industries.	PO 9: Self-directed and Life-long Learning. CO7. Learn nutrition garden and entrepreneurship.





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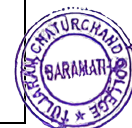
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	BOT 5403	Plant Biotechnology	Expertise in tissue culture.	Expertise in tissue culture.	Expertise in tissue culture.	Expertise in tissue culture.	PO2: Critical Thinking and Problem Solving. CO7. Expertise in different molecular techniques.
	BOT 5404 1	Advances in Plant Physiology	Different skills of crop physiology and enzymology.	Different skills of crop physiology and enzymology.	Different skills of crop physiology and enzymology.	Different skills of crop physiology and enzymology.	PO 4: Research-related skills and Scientific temper. CO7. Students get knowledge of biomolecules.
	BOT 5404 2	Advances in Mycology and Plant Pathology	Knowledge about role of fungi as saprotrophs.	Knowledge about role of fungi as saprotrophs.	Knowledge about role of fungi as saprotrophs.	Knowledge about role of fungi as saprotrophs.	PO1: Disciplinary Knowledge. CO5. Know fungi as pathological relationships with other organisms.
	BOT 5405	Practical's Based on 5401, 5402 and 5403	Knowledge about fungal, bacterial, nematodal and viral diseases.	Knowledge about fungal, bacterial, nematodal and viral diseases.	Knowledge about fungal, bacterial, nematodal and viral diseases.	Knowledge about fungal, bacterial, nematodal and viral diseases.	PO1: Disciplinary Knowledge. CO1. Study fungal, bacterial, nematode





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							land viral diseases.
	BOT 5406	Research Projects, Review of Literature and Summer Training	Knowledge about review of literature.	Knowledge about review of literature.	Knowledge about review of literature.	Knowledge about review of literature.	PO1: Disciplinary Knowledge. CO3. Understand the review of literature.





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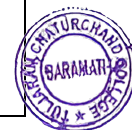
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COMPUR SCIENCE

Program me	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
			Local	Nation al	Region al	Glob al	
B.Sc. (Comput er Science) (UG)	CSCO2 301	Data Structure s using C	Binary tree	Binary tree		Binary tree	1) CO1:Use well-organized data structures in solving various 2) CO2:problems.Differ entiate the usage of various structures in problem solution.
	CSCO2 302	Introduct ion to Web Technolo gy	Alpha Color Space	Alpha Color Space		Alph a Color Spac e	1)PO1:To understand different Web technologies. 2)PO2: To keep pace with the rapidly changing landscape of web application development.
	CSCO2 401	Object Oriented Concepts using Java	Array of Objects	Array of Objects		Array of Obje cts	1)CO1:Understand Object Oriented Concepts 2)CO2:Handle different type of Exceptions in program.
	CSCO2 402	Software Engineer ing	Structu red Analysi s	Structu red Analysi s	Structu red Analysi s		1)CO1:Students can adopt relevant methods and procedures. An ability to work in one or more significant application





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Progra mme	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
			Local	National	Regional	Global	
M.Sc. (Compu ter Science) (PG)	COMP 5301	Mobile Technolo gies	Radio Subsyste m	Radio Subsyste m			1)CO1:Create native android applications using basic concepts2)CO2:U nderstand UI design or controls available in android.
	COMP 5302	Soft Computi ng	Neuron Abstracti on	Neuron Abstracti on		Neuron Abstracti on	1)PO1:Describe human intelligence and AI 2)PO2:Explain how intelligent system works
	COMP 5303	Web Services	Social, Entertain ment	Social, Entertain ment	Social, Entertain ment	Social, Entertain ment	1)CO1:Understan d the principles of SOA 2)CO2:Efficiently use market leading environment tools to create and consume web services





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COMP 5304	Software Architecture & Design Pattern	Broker pattern		Broker pattern	Broker pattern	1)CO1:Able to assist learner to utilize styles and views to state Architecture, define documentation, analyze2)CO2: the architectural structures and it's Influence on business and development process.
COMP 5307	Recent Trends in IT	Smartie Approach		Smartie Approach		1)CO1:Enable learners to understand System On Chip Architectures.2)CO2: Introduction and preparing Raspberry Pi with hardware and installation.





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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)	EVS1101	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.
	EVS1102	Fundamentals of Environmental Biology-I	Ecological adaptations and bio-resources	Ecological adaptations and bio-resources	Ecological adaptations and bio-resources	Ecological adaptations and bio-resources	CO1: Aware about the environment and its significance PO1: To learn about interrelationship and discipline in





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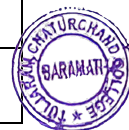
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							environme nt science.
	EVS1 103	Practical based on EVS1101 and EVS1102	Vegetatio n by Belt/Line method	-	-	-	CO1: Students will be expert to conclude the significanc e of biological experiment s. PO1: aware the students about environme ntal conservatio n.
F.Y.B.Sc. (Sem-II)	EVS 1201	Fundame ntals of Environm ental Science- II	GIS and remote sensing	GIS and remote sensing	GIS and remote sensing	GIS and remote sensing	CO1: Understand the basics of Environme ntal Sciences. PO1: Students will be able to understand applicatio ns of GIS and remote sensing.
	EVS 1202	Fundame ntals of	Biodivers ity and its	Biodivers ity and its	Biodivers ity and its	Biodivers ity and its	CO1: Students





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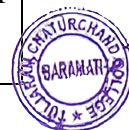
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		Environmental Biology-II	conservation	conservation	conservation	conservation	will be able to understand to maintain life supporting systems and essential ecological processes. PO1: aware about conservation and sustainable use of Biodiversity.
	EVS 1203	Practical based on EVS 1201 and EVS 1202	Environmental issues, use of science and technology	-	-	-	CO1: Students will experience about innovative methodology to solve environmental problems.
S.Y.B.Sc. (Sem-III)	EVS 2301	Natural resources	resources	resources	resources	resources	CO1: Students will be able to understand future sustainability of natural resources.





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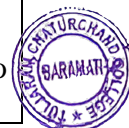
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							PO1: learn basic resources natural, forest, Grasslands
	EVS 2302	Environmental pollution and control-I	Control of Soil, and water pollution	Control of Soil, and water pollution	Control of Soil, and water pollution	Control of Soil, and water 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 soil erosion and flood hazard.
S.Y.B.Sc. (Sem-IV)	EVS 2401	Solid and Hazardous waste	Plastic and e-waste	Plastic and e-waste	Plastic and e-waste	Plastic and e-waste	CO1: Students will help to acquire





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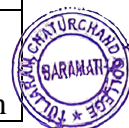
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		managem ent					knowledge about how to reduce, reuse and recycle of waste. PO1: aware about solid waste processing, recovery and energy generation.
	EVS 2402	Environm ental pollution and control-II	Control of Air and noise pollution	Control of Air 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 consequen ces of human exposure to pollution and its impacts to environme ntal quality.
	EVS 2403	Practical based on EVS	Total chlorophy ll of plant	Total chlorophy ll of plant	Total chlorophy ll of plant	Total chlorophy ll of plant	CO1: Students will learn





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		2401 and EVS 2402					to identify impacts of pollutant on plants.
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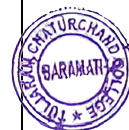
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MATHEMATICS

Program me	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & Cos
			Local	National	Regional	Global	
B.Sc. (Mathematics) UG	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	CO1: Learning multivariable calculus will develop skills of students to solve complex problems in mathematics and science. PO1: Disciplinary Knowledge : Demonstrate comprehensive knowledge of the disciplines that form a part of a graduate programme. Execute strong theoretical and practical





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							understandi ng generated from the specific graduate programme in the area of work.
B.Sc. (Mathem atics) UG	MA T 2302	Laplace Transfor m and Fourier Series	Signal processing and communic ation system	Medical imaging and healthcare technolog y	Energy and power system	Climate modeling	CO1: Able to solve differential equations using Laplace Transform and to calculate Fourier Series of functions. PO1: Disciplinar y Knowledge : Demonstrat e comprehens ive knowledge of the disciplines that form a part of a graduate programme. Execute strong theoretical and





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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	CO1: Student will be able to solve problems in integration which are critical in some science subjects. CO2: Student will enhance ability of problem solving and will improve analytical thinking. PO1: Disciplinary Knowledge: Demonstrate comprehensive knowledge





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							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	MT 335	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.Sc. (Mathematics) UG	MT 337 A	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	-
B.Sc. (Mathematics) UG	MT 345	Partial Differential Equations	Heat Transfer, Groundwater flow, Traffic	Energy distribution and grid optimization,	Environmental Impact Assessments	Oceanography and sea level rise, Tsunami	-





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			flow in complex road system	Natural Disaster Prediction and Response		and natural disaster simulation	
B.Sc. (Mathematics) UG	MT 347 A	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	-
M.Sc. (Mathematics) PG	MA T 4105	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	<p>CO1: Student will be able to find the complete solution of a nonhomogeneous differential equations as a linear combination of complementary function and a particular solution.</p> <p>CO2: Student will be able to understand</p>





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							<p>the complete solution of a nonhomogeneous differential equation with constant coefficients by the method of undetermined coefficients .</p> <p>PO8: Environment and Sustainability: Understand the impact of the scientific solutions in societal and environmental contexts and demonstrate the knowledge of and need for sustainable development.</p>
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M.Sc. (Mathematics) PG	MA T 4204	Linear Algebra	Statistics and data analysis for local research	National economic planning	Environm ental studies	Global supply chain managem ent	CO1: matrix representati on of vector spaces, properties of vector spaces and their applications in real world. PO1: Disciplinar y Knowledge : Demonstrat e comprehens ive knowledge of the disciplines that form a part of a postgraduat e programme. Execute strong theoretical and practical understandi ng generated from the specific programme
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M.Sc. (Mathematics) PG	MA T 4205	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	in the area of work. CO1: Solving of PDE and finding their applications PO8: Environment and Sustainability: Understand the impact of the scientific solutions in societal and environmental contexts and demonstrate the knowledge of and need for sustainable development.
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	CO1: Student will be able to apply principles and concepts of graph theory in





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							<p>practical situations. PO2: Critical Thinking and Problem solving: Exhibit the skill of critical thinking and understand scientific texts and place scientific statements and themes in contexts and also evaluate them in terms of generic conventions . Identify the problem by observing the situation closely, take actions and apply lateral thinking and analytical skills to</p>
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							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	CO1: 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 observation of stars and planets in the sky. PO4: Research-related skills and Scientific temper: Infer scientific literature, build a sense of enquiry and able to formulate test, analyse,





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							interpret and establish hypothesis and research questions; and to identify and consult relevant sources to academics and research ethics, scientific conduct and creating awareness about intellectual property rights and issues of plagiarism.
M.Sc. (Mathematics) PG	MA T 5403	Fourier Analysis	Signal processing and communication system	National healthcare and medical technology	Manufacturing and industrial processes	Global environmental and climate studies	CO1: Student will be able to understand the treatment of Fourier Series and their applications to boundary value problems in PDE of engineering





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							and physics. PO5: Trans-disciplinary knowledge: Create new conceptual, theoretical and methodological understanding that 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	CO1: Student will be able to understand Kepler's law, interior and superior planets, satellite, sidereal time and elongation of planet. PO4: Research-





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							related skills and Scientific temper: Infer scientific literature, build a sense of enquiry and able to formulate test, analyse, interpret and establish hypothesis and research questions; and to identify and consult relevant sources to academics and research ethics, scientific conduct and creating awareness about intellectual property rights and issues of plagiarism.
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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	PO4: Research-related skills and Scientific temper: Infer scientific literature, build a sense of enquiry and able to formulate test, analyse, interpret and establish hypothesis and research questions; and to identify and consult relevant sources to academics and research ethics, scientific conduct and creating awareness about intellectual property rights and
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							issues of plagiarism.
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MICROBIOLOGY

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.	MICRO 1101	(Theory) Introduction to Microbiology	Unit 2 : Applications of Microbiology with special reference to: Significance of normal flora and probiotics in human health			Unit 1: 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	CO1: The students will obtain a fundamental understanding of microbiology areas. PO1: Disciplinary Knowledge: Demonstrate comprehensive knowledge of the disciplines that form a part of a graduate programme. Execute strong theoretical and practical understanding





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							generated from the specific graduate programme in the area of work.
F.Y.BSc.	MICRO 1102	(Theory) Basic Techniques In Microbiology	Unit 3 : Characteristics of an ideal Disinfectant Checking of Efficiency of Disinfectant –Phenol Coefficient			Unit 2 : Microscopy a) Structure, working and ray diagram of : i. Bright Field Microscopy ii. Dark Field Microscopy	CO:1 Introduction to the microbiology laboratory and familiarization with common microbiology laboratory instruments PO1: Disciplinary Knowledge: Demonstrate comprehensive knowledge of the disciplines that form a part of a graduate programme. Execute strong





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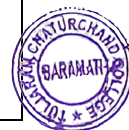
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							theoretical and practical understanding generated from the specific graduate programme in the area of work.
F.Y.BSc.	MICRO 1103	(Practical) Practical Based on theory	Exot no. 1 Principle & Standard Operating Procedures (SOP) for common microbiology 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	CO:1 Introduce students to the microbiology laboratory environment and familiarize them with commonly used microbiology laboratory instruments PO1: Disciplinary Knowledge: Demonstrate comprehensive





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							nsive 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.
F.Y.BSc.	MICRO 1201	Introduction to Microbiology (Theory)				Unit 1 : Bacterial Cytology Structure, chemical composition and functions of the following: a) Flagella (Gram-positive and Gram-negative) and types of motility (spirochetal and gliding)	CO:1 The students will acquire a fundamental understanding of biochemistry. PO1: Disciplinary Knowledge: Demonstr





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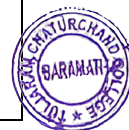
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							ate comprehensive knowledge of the disciplines that form a part of a graduate programme. Execute strong theoretical and practical understanding generated from the specific graduate programme in the area of work.
F.Y.BSc.	MICRO 1202	(Theory) Basic Techniques in Microbiology				Unit 3 : Isolation and Preservation of bacteria by - i. Streak Plate Method ii. Spread Plate Method iii. Pour Plate Method	CO:1 Develop a comprehensive understanding of the principles and practical applications of various types of media,





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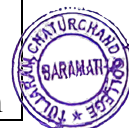
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							including knowledge of their components
F.Y.BSc.	MICRO 1203	(Practical) Practical Based on theory	Expt No. 9. Study the effect of soap and disinfectant on skin microflora Expt no.7 Checking sterilization efficiency of autoclave using a biological indicator			Cultivation of microorganism s: a) Preparation of simple laboratory media (solid and liquid) (Nutrient Broth & Agar, MacConkey's Broth & Agar & Potato Dextrose Broth & Agar)	CO1: Introduce students to the microbiology laboratory , acquainting them with standard practices applied in both research and diagnostic microbiology PO1: Disciplinary Knowledge: Demonstrate comprehensive knowledge of the disciplines that form a part of a graduate program





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							e. Execute strong theoretical and practical understanding generated from the specific graduate programme in the area of work.
S.Y.BSc.	MICRO 2301	(Theory) Bacterial Systematics and Physiology	Bacterial physiology a. Definition of metabolism, catabolism, anabolism, respiration and fermentation				CO:1 Students will demonstrate proficiency in categorizing bacteria through analysis of their morphological, biochemical, and genetic traits. PO1: Disciplinary Knowledge: Demonstr





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S.Y.BSc.	MICRO 2302	(Theory) Industrial and Soil Microbiology	D)Soil microbiology Role of microorganisms in composting				CO:1 Students will understand the importance of microorganisms in cycling nutrients, maintaining soil fertility, and





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							preserving soil health.
S.Y.BSc.	MICRO 2303	(Practical) Practical course based on MICRO2301 and MICRO2302				Expt 1 A)Absorbance measurement for bacterial culture b)Growth curve plotting by using computer software	CO:1 Comprehend the bacterial growth curve. CO:2 Introduction to utilizing computer software in studies.
S.Y.BSc.	MICRO 2401	(Theory) Air and Water Microbiology	Air flora: Transient nature of air flora Droplet, droplet nuclei, and aerosols			Air pollution: Chemical pollutants, their sources in air and effects on human health.	CO:1 Students will grasp the principles of microbial ecology, emphasizing the distinct characteristics of microbial life within air and water environments.





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S.Y.BSc.	MICRO 2402	(Theory) Bacterial Genetics	Prokaryotic genome organization . Comparative account of different forms of DNA.			Prokaryotic genome organization. Comparative account of different forms of DNA.	CO:1 Comprehensive idea about molecules of heredity. CO:2 Understandings of prokaryotic genome organization.
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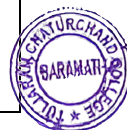
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S.Y.BSc.	MICRO 2403	(Practical) Practical course based on MICRO2401 and MICRO2402	Air sampling using an air sampler & calculation of air flora from different locations with the knowledge of respective standards of bacterial & fungal counts.			Air sampling using an air sampler & calculation of air flora from different locations with the knowledge of respective standards of bacterial & fungal counts.	CO:1 Students have the opportunity to investigate the variety of microorganisms present in both air and water. PO1: Disciplinary Knowledge: Demonstrate comprehensive knowledge of the disciplines that form a part of a graduate programme. Execute strong theoretical and practical understanding generated from the specific
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							graduate programme in the area of work.
T.Y.BSc	MB 331	Medical Microbiology - I	Respiratory system Gastrointestinal system Kidney and Liver Genital system Central nervous system			Respiratory system Gastrointestinal system Kidney and Liver Genital system Central nervous system	-





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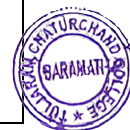
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	MB 332	Genetics & Molecular Biology - I	Gene Linkage and crossing over: Mendelian laws, Recombination in eukaryotes DSB model Gene linkage and cross over			Gene Linkage and crossing over: Mendelian laws, Recombination in eukaryotes DSB model Gene linkage and cross over	-
	MB 333	Enzymology	Enzymes: A. Structure of enzymes: Methods to determine amino acid residues at active site (Physical and chemical methods)			Enzymes: A. Structure of enzymes: Methods to determine amino acid residues at active site (Physical and chemical methods)	-
	MB 334	Immunology - I	Immunity: Definition and Classification			Immunity: Definition and Classification	-
	MB 335	Fermentation Technology - I	Strain Improvement: Objective of strain improvement Methods for strain			Strain Improvement: Objective of strain improvement Methods for strain improvement: mutagens used	-





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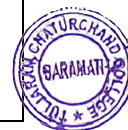
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			improvement: mutagens used for strain improvement; selection of different types of mutants e.g. mutants			for strain improvement; selection of different types of mutants e.g. mutants	
	MB 336	Food & Dairy Microbiology	Dairy Development in India: Role of National Dairy Development Board (NDDB), National Dairy Research Institute (NDRI), Military dairy farm, Indian Dairy Corporation (IDC), Dairy Co-operatives, Milk Grid, Operation Flood			Dairy Development in India: Role of National Dairy Development Board (NDDB), National Dairy Research Institute (NDRI), Military dairy farm, Indian Dairy Corporation (IDC), Dairy Co-operatives, Milk Grid, Operation Flood	-
	MB 341	Medical Microbiology - II	Chemotherapy: Introduction to chemotherapy			Chemotherapy: Introduction to chemotherapy Desirable parameters of good	-





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			Desirable parameters of good chemotherapeutic agent (Selective toxicity, Bioavailability of Drug, MIC, MBC, LD-50 value, Routes of drug			chemotherapeutic agent (Selective toxicity, Bioavailability of Drug, MIC, MBC, LD-50 value, Routes of drug	
	MB 342	Genetics & Molecular Biology - II	Gene transfer by transformation: Development of competence in Gram positive and Gram negative bacteria.			Gene transfer by transformation: Development of competence in Gram positive and Gram negative bacteria.	-
	MB 343	Metabolism	Membrane transport mechanism s: Passive transport - Diffusion, Osmosis, Facilitated transport Active transport - Active transport			Membrane transport mechanisms: Passive transport - Diffusion, Osmosis, Facilitated transport Active transport - Active transport systems in bacteria	-





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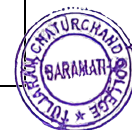
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			systems in bacteria				
	MB 344	Immunology - II	Major Histocompatibility Complex: Structure of MHC in man and mouse Structure and functions of MHC class-I and class-II molecules			Major Histocompatibility Complex: Structure of MHC in man and mouse Structure and functions of MHC class-I and class-II molecules	-
	MB 345	Fermentation Technology -II	Enzymes (Amylase, Esterases and Restriction enzymes) . Vaccines (Polio, Tetanus and Rabies)			Enzymes (Amylase, Esterases and Restriction enzymes) . Vaccines (Polio, Tetanus and Rabies)	-
	MB 346	Soil & Agricultural Microbiology	Agriculture Technology Plant growth improvement with respect to: Disease resistance Environmental tolerance			Agriculture Technology Plant growth improvement with respect to: Disease resistance Environmental tolerance	-





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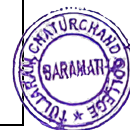
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	MB 347	Practical course – I Applied Microbiology	Screening and isolation of pesticide degrading microorganisms from soil.			Screening and isolation of pesticide degrading microorganisms from soil.	-
	MB 348	Practical course – II Biochemistry & Genetics	Determination of absorption spectra and molar extinction co-efficient (by colorimetry/spectrophotometry)			Determination of absorption spectra and molar extinction co-efficient (by colorimetry/spectrophotometry)	-
	MB 349	Practical course – III Diagnostic Microbiology & Immunology	Clinical microbiology: Physical, Chemical and Microscopic examination of Clinical samples – urine, stool, pus, sputum			Clinical microbiology: Physical, Chemical and Microscopic examination of Clinical samples – urine, stool, pus, sputum	-
M.SC. I Sem-I	MICRO 4101	Microbial Systematics and Diversity				UNIT 3: Exploration of Un-culturable bacteria Methods of extracting total bacterial DNA from a habitat and	CO:1 Students will be able to understand the principles and methods





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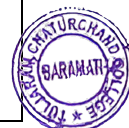
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						metagenome analysis. Approaches to identify Culture-NGS (Next generation Sequence)	behind studying and identifying cultured and uncultured microorganisms.
	MICRO 4102	Quantitative Biology	Importance of statistics in Biology • Samples and Population • Types of data • Random sampling methods and sampling errors • Scales and Variables • Collection and organization of data			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	CO:1 Students should be able to demonstrate a comprehensive understanding of fundamental statistical concepts and principles applicable to biological and health sciences.
	MICRO 4103	Biochemistry				UNIT 3: Protein Chemistry Tertiary and Quaternary structures of proteins, (Myoglobin & Hemoglobin)	CO:1 Demonstrate a comprehensive understanding of the structure,





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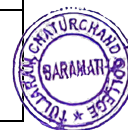
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							function, and properties of biomolecules, including proteins, carbohydrates, lipids, and nucleic acids.
	MICRO 4104	Cell Biology				Cell signalling in eukaryotic systems Introduction of cell signalling and, importance of cell signalling • Mode 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	CO:1 Student able to identify and describe the structure of eukaryotic and prokaryotic cells.
	MICRO 4105	Practical Course: Microbial	1) Isolation of bacteria				CO:1 Enrich students'





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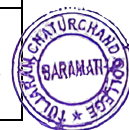
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		Systematics	from natural samples. 2) Isolation of fungi from natural samples. 3) Isolation of extremophiles from natural samples.				knowledge and train them in the pure microbial sciences PO1: Disciplinary Knowledge: Demonstrate comprehensive knowledge of the disciplines that form a part of a graduate programme. Execute strong theoretical and practical understanding generated from the specific graduate programme in the area of work.
	MICRO 4106	Practical Course: Cell	Good laboratory practices				CO:1 Understand and





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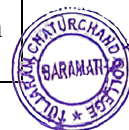
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		biology and Biochemistry	and cell biology Good laboratory practices: Laboratory safety, hazard from chemicals, handling of chemicals, disposal of chemicals and cultures, recording of scientific experiments • Standardization of laboratory procedures • Calibration and validation instruments (pH meter, spectrophotometer). • preparing/designing SOP for the instrument			apply ethical considerations related to the use of biomolecules in research and analysis PO1: Disciplinary Knowledge: Demonstrate comprehensive knowledge of the disciplines that form a part of a graduate programme. Execute strong theoretical and practical understanding generated from the specific graduate programme in the
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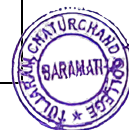
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						area of work.
	MICRO 4201	Virology				Replication of viruses • Mechanism of virus attachment • Entry into host cell • Uncoating of viral genome • Transcription strategies for RNA genome & DNA genome • Genome replication - RNA replication, DNA replication CO:1 Understand basic structures of viruses PO1: Disciplinary Knowledge: • Demonstrate comprehensive knowledge of the disciplines that form a part of a graduate programme. Execute strong theoretical and practical understanding generated from the specific graduate programme in the area of work.





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	MICRO 4202	Instrume ntation	1)Chromato graphy Gel filtration chromatogra phy • Ion- exchange Chromatogr aphy • Affinity chromatogra phy • Gas chromatogra phy • High Performanc e Liquid Chromatogr aphy 2)Spectrosc opy		Chromatograph y Gel filtration chromatography • Ion-exchange Chromatograph y • Affinity chromatography • Gas chromatography • High Performance Liquid Chromatograph y 2)Spectroscopy	CO:1 Gain a fundament al understan ding of the principles of instrument ation, including sensors, transducer s, signal conditioni ng, and measur ement techniques PO1: Disciplina ry Knowledg e: Demonstr ate comprehe nsive knowledg e of the disciplines that form a part of a graduate programm e. Execute strong theoretical and practical
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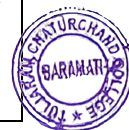
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							understanding generated from the specific graduate programme in the area of work.
	MICRO 4203	Metabolism	Concept of anaerobic respiration • Concept of Assimilation and Dissimilative metabolism			Concept of anaerobic respiration • Concept of Assimilation and Dissimilative metabolism	CO:1 Students should demonstrate a thorough understanding of major metabolic pathways, including glycolysis, the citric acid cycle, oxidative phosphorylation, photosynthesis, and various biosynthetic pathways.
	MICRO 4204	Evolution and Ecology	Concept of ecosystem • Trophic structure of ecosystem •				CO:1 Understand how the major principles





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			Types of ecosystems				of evolution and ecology and to determine the functioning of all life on earth. PO1: Disciplinary Knowledge: Demonstrate comprehensive knowledge of the disciplines that form a part of a graduate programme. Execute strong theoretical and practical understanding generated from the specific graduate programme in the
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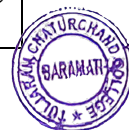
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							area of work.
	MICRO 4205	Practical Course: Biophysics & Virology				Qualitative and quantitative detection of bacteriophage • Animal virus titration by Hemagglutination inhibition test	CO:1 Students will apply their knowledge regarding to qualitative and quantitative determination of bacteriophage in laboratory.
	MICRO 4206	Practical Course: Enzymology & Microbial Metabolism	Plant Growth Promoting Rhizobacteria				CO:1 Students will able to Understand kinetics of enzymes CO:2 Students will learn to isolate Nitrogen fixers and detect secondary metabolites





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M.Sc.II Pattern (Sem- III)	MICRO 5301	Immunol ogy				In vitro systems Quantification of cytokines (ELISPOT assay), functional assays for phagocytes and cytokines (cytotoxicity and growth assays) • In vivo systems – Experimental animals in immunology research (Inbred animal strains, Knockout mice, transgenic animals, Knock in technology), Animal models for autoimmunity and AIDS.	CO:1 Explain the mechanis ms of immune response regulation to prevent autoimmu nity and excessive immune reactions PO1: Disciplina ry Knowledg e: Demonstr ate comprehe nsive knowledg e of the disciplines that form a part of a graduate programm e. Execute strong theoretical and practical understan ding generated from the specific graduate
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							programm e in the area of work.
	MICRO 5302	Molecula r Biology I				Tools in molecular biology Activity gel assay, ChIP,, Designing probe, Detection of DNA binding protiens, DMS foot printing, DNA helicase assay, Epitope tagging, Sequence tagged sites, Filter binding assay, Protein foot printing,	CO:1 Students will demonstra te an in- depth understan ding of operons and the various regulatory mechanis ms governing gene expression in prokaryoti c and eukaryotic systems. PO1: Disciplina ry Knowledg e: Demonstr ate comprehe nsive knowledg e of the disciplines that form a part of a





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							graduate programme. Execute strong theoretical and practical understanding generated from the specific graduate programme in the area of work.
	MICRO 5303	Industrial Waste Water Treatment	Pre-treatment & Primary treatment process (Unit Processes) Flow equalization • Screening • Flocculation • Flotation • Granular medium filtration				CO:1 Provide definitions for fundamental terms and concepts associated with treating industrial wastewater PO1: Disciplinary Knowledge: Demonstrate comprehensive





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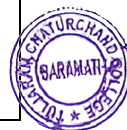
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							knowledge of the disciplines that form a part of a graduate programme. Execute strong theoretical and practical understanding generated from the specific graduate programme in the area of work.
	MICRO 5304	Biophysical Techniques				Tools of Bioinformatics (FASTA, BLAST, BLAT), databases (GENBANK, PDB, OMIM) and software (RASMOL, Ligand Explorer).	CO:1 Students will gain the ability to understand molecular structure determination PO1: Disciplinary Knowledge: Demonstrate





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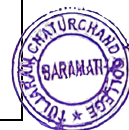
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							comprehensive knowledge of the disciplines that form a part of a graduate programme. Execute strong theoretical and practical understanding generated from the specific graduate programme in the area of work.
	MICRO 5305	Practical Course: Practical course based on Immunology, Pharmaceutical Microbiology and Industrial wastewater treatment	Antigen-Antibody Interactions Agglutination techniques: Titer determination of isoantibodies to human blood group antigens			Antigen-Antibody Interactions Agglutination techniques: Titer determination of isoantibodies to human blood group antigens	CO:1 Students should be capable of determining fundamental wastewater parameters, including pH, turbidity,





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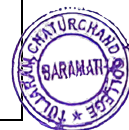
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							and suspended solids. PO1: Disciplinary Knowledge: Demonstrate comprehensive knowledge of the disciplines that form a part of a graduate programme. Execute strong theoretical and practical understanding generated from the specific graduate programme in the area of work.
	MICRO 5306	Practical Course: Practical course based on Molecula	Laboratory scale production and media optimization for			Laboratory scale production and media optimization for exopolysaccharide /	CO:1 Develop the capability to evaluate





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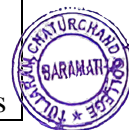
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		r Biology (I and II) and Microbial Technology	exopolysaccharide / bioemulsifier production.			bioemulsifier production.	and explain the effects of different gel concentrations on the effectiveness and stability of immobilized cells or enzymes in bioconversion processes.
	MICRO 5401	Pharmaceutical Microbiology	Drug Discovery: I. Conventional Process Bio-prospecting (Medicinal Chemistry) – Extraction and purification principles, Purification and characterization of bioactive molecules from natural sources				CO:1 Students will understand drug discovery and development. PO1: Disciplinary Knowledge: Demonstrate comprehensive knowledge of the disciplines





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							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.
	MICRO 5402	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			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	CO:1 Students will acquire comprehensive knowledge of diverse gene cloning techniques, including gene and genome library preparation, cDNA libraries, PCR cloning,





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			n, gene therapy				and alternative methodologies.
	MICRO 5403	Microbial Technology	: Bioreactor Design Designing of bioreactors - Design aspects CSTRs: The dimensional ratios of the outer shell, and the operational aspects such as working volume and impellers			: Bioreactor Design Designing of bioreactors - Design aspects CSTRs: The dimensional ratios of the outer shell, and the operational aspects such as working volume and impellers	CO:1 Thorough comprehension of diverse bioreactor designs and variables in the process. PO1: Disciplinary Knowledge: Demonstrate comprehensive knowledge of the disciplines that form a part of a graduate programme. Execute strong theoretical and practical understanding generated from the specific





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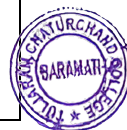
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						graduate programme in the area of work.
	MICRO 5404	Medical Microbiology	Clinical Microbiology Epidemiological and investigational approaches for emerging infectious diseases:		Epidemiological and investigational approaches for emerging infectious diseases:	CO:1 Demonstrate proficiency in laboratory techniques used for the identification and characterization of microorganisms and understand the principles of diagnostic microbiology, including specimen collection, culture, and sensitivity testing. PO1: Disciplinary Knowledge: Demonstr





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							ate comprehe nsive knowledg e of the disciplines that form a part of a graduate programm e. Execute strong theoretical and practical understan ding generated from the specific graduate programm e in the area of work.
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STATISTICS

Progra mme	Cours e 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. Statisti cs, UG	STAT 1201	Descripti ve Statistics – II	Demo graph y, Life Table	Demogra phy, Life Table	Demogra phy, Life Table	Demography, Life Table	CO1: Applications of demography and life table in the field of insurance, Actuarial Science, government etc. PO1: Disciplinary Knowledge: Demonstrate comprehensive knowledge of the disciplines that form a part of a graduate programme. Execute strong theoretical and practical understanding generated from the specific graduate programme in the area of work.
B.Sc. Statisti cs, UG	STAT 2301	Statistical Techniqu es – I	Index Numb er, Time Series	Index Number, Time Series	Index Number, Time Series	Index Number, Time Series	CO1: Applications of index numbers and time series





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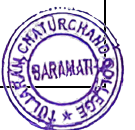
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B.Sc. Statistics, UG	STAT 2401	Statistical Techniques – II	Regression, SPC and Queuing Model	Regression, SPC and Queuing Model	Regression, SPC and Queuing Model	Regression, SPC and Queuing Model	CO1: Learn Meaning and purpose of SPC. CO2: Construct Control charts for Attributes, variables. CO3: Revise control limits whenever necessary. CO4: Apply M/M/1:FIFO Queuing model.
B.Sc. Statistics, UG	STAT 2402	Continuous Probability Distribution II	Testing of Hypothesis	Testing of Hypothesis	Testing of Hypothesis	Testing of Hypothesis	CO1: Use appropriate tests in real life situations
B.Sc. Statistics, UG	ST 332	Theory of Estimation	Estimation and its properties	Estimation and its properties	Estimation and its properties	Estimation and its properties	
B.Sc. Statistics, UG	ST 333	Sampling Methods	Sampling Methods	Sampling Methods	Sampling Methods	Sampling Methods	
B.Sc. Statistics, UG	ST 334	Design of Experiments	Various experimental designs	Various experimental designs	Various experimental designs	Various experimental designs	
B.Sc. Statistics, UG	ST 336	Introduction to Regression Analysis	Various regression models	Various regression models	Various regression models	Various regression models	





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B.Sc. Statistics, UG	ST 342	Testing of Hypothesis	Parametric and Nonparametric test	Parametric and Nonparametric test	Parametric and Nonparametric test	Parametric and Nonparametric test
B.Sc. Statistics, UG	ST 343	Statistical Quality Control	Statistical Quality Control and Reliability	Statistical Quality Control and Reliability	Statistical Quality Control and Reliability	Statistical Quality Control and Reliability
B.Sc. Statistics, UG	ST 344	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
B.Sc. Statistics, UG	ST 341	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





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M.Sc. Statistics, PG	STAT-4104	Sampling Theory	Various sampling Techniques, and population parameter estimation	Various sampling Techniques, and population parameter estimation	Various sampling Techniques, and population parameter estimation	CO1: Identify and recognize the appropriate sampling Techniques in various situations. PO1: Disciplinary Knowledge
M.Sc. Statistics, PG	STAT-4303	Multivariate Analysis	PCA, Cluster Analysis, Discriminant Analysis, Canonical Correlation	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





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M.Sc. Statistics, PG	STAT-4204	Regression Analysis	Various regression models and model adequacy, multicollinearity	Various regression models and model adequacy, multicollinearity	Various regression models and model adequacy, Multicollinearity	CO1:Able to apply various regression models in real life problems. PO1: Trans-disciplinary knowledge: Create new conceptual, theoretical and methodological understanding that integrates and transcends beyond discipline-specific approaches to address a common problem.
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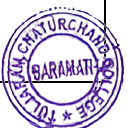
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M.Sc. Statistics, PG	STAT 5302	Design and Analysis of Experiments	Various experimental design, RSM, CCD, Box-Behnken design	Various experimental design, RSM, CCD, Box-Behnken design	Various experimental design, RSM, CCD, Box-Behnken design	CO1: Students 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	STAT-5303	Time Series Analysis	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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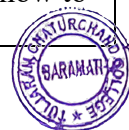
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M.Sc. Statistics, PG	STAT-5304(A)	Data Mining	SVM, KNN, Decision Tree, Random Forest, Text Mining	SVM, KNN, Decision Tree, Random Forest, Text Mining	SVM, KNN, Decision Tree, Random Forest, Text Mining	SVM, KNN, Decision Tree, Random Forest, Text Mining	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	STAT-5304(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





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M.Sc. Statistics, PG	STAT-5404(B)	Reliability Theory	Coherent structures and its Reliability	Coherent structures and its Reliability	Coherent structures and its Reliability	Coherent structures and its Reliability	CO1: The students will be able to get idea of important lifetime distributions such as for exponential, Weibull, gamma and lognormal distributions
M.Sc. Statistics, PG	STAT-5402	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	STAT-5403	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





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M.Sc. Statistics, PG	STAT-5406	Project	Use of Statistical Tools in real life situations	Use of statistical Tools in real life situations	Use of statistical Tools in real life situations	Use of statistical Tools in real life situations	CO1: Students will be able to the social issues using the project PO1: Research-related skills and Scientific temper : Infer scientific literature, build a sense of enquiry and able to formulate, test, analyse, interpret and establish hypothesis and research questions; and to identify and consult relevant sources to find answers. Plan and write a research paper/project while emphasizing on academics and research ethics, scientific conduct and creating awareness about intellectual property rights and issues of plagiarism.
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ZOOLOGY

Programe	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
			Local	National	Regional	Global	
B.Sc. Zoology	ZOO: 1101	Animal systematics & diversity-I	-	Principles of animal classification	-	Principles of animal classification	PO1. Disciplinary knowledge PSO1. Scientific knowledge CO1. Acquires the skills to classify various invertebrate taxa.
	ZOO: 1103	Zoology Practical I	-	Principles of animal classification	-	Principles of animal classification	PO1. Disciplinary knowledge PSO1. Scientific knowledge CO2. Acquires the skills to classify various invertebrate taxa.





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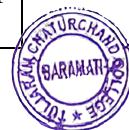
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	ZOO: 1201	Animal systematics & diversity-II	-	Principles of animal classification	-	Principles of animal classification	PO1. Disciplinary knowledge PSO1. Scientific knowledge CO2. Acquires the skills to classify various vertebrate taxa.
	ZOO: 2301	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	Fisheries and Dairy Science	Fisheries and Dairy Science	Fisheries and Dairy Science	Fisheries and Dairy Science	PO5. Transdisciplinary knowledge. PSO10. Communication skills. CO4. Entrepreneurship.





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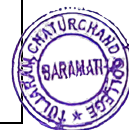
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	ZOO: 2401	Animal systematics & diversity-IV	-	-	-	General characters and classification of class Reptilia, Aves and Mammalia	PO1. Disciplinary knowledge PSO7. Scientific knowledge CO1. Acquires the skills to classify various vertebrate taxa.
	ZOO: 2402	Applied Zoology-II	Apiculture and sericulture	Apiculture and sericulture	Apiculture and sericulture	Apiculture and sericulture	PO6. personal & professional competence PSO10. Communication skills. CO4. Entrepreneurship.
	ZY-334	Environmental Biology & Toxicology	Environmental Pollution Wildlife Management	Environmental Pollution Wildlife Management	Environmental Pollution Wildlife Management	Environmental Pollution Wildlife Management	-
M.Sc. Zoology	ZOO:4104	Skills in Scientific Communication & Writing and Biostatistics	Research project proposal writing	Research project proposal writing	-	-	PO4. Research-related skills and Scientific temper PSO4. Research





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							related skills and scientific temper CO7. Write effective research proposals that secure funding.
	ZOO: 5304	Economic Zoology	Prawn culture, Pearl Culture, Fish Culture	Vermiculture industry	Fish Industry	Wild Life conservation	PO6 Personal and professional competence. PO8 Environment and Sustainability. PSO10. Communication skills. PSO7. Conservation Awareness CO4. Entrepreneurship. CO5. Contributes the knowledge for conservation and sustainable use of Biodiversity





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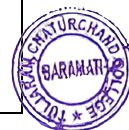
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DAIRY TECHNOLOGY

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	BDT - 101	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
	BDT - 102	Dairy Farm Management		Milking techniques, feed management, dairy farm management			PO1: They will know the need and importance of dairy farming and dairy farm management CO1: They will know about milking techniques of dairy cattle's. PO1: They will be able to





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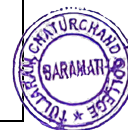
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							understand dairy farming.
	BDT - 103	Dairy Chemistry				Protein, carbohydrates, vitamins, minerals, lipids	CO1: They will understand the chemistry of milk and its products, CO2: They will understand the composition, role of each component and their interactions. PO1: They will understand the chemistry involved in dairy industry
	BDT 1.1	Dairy Farm Management				Identification of different breeds of cattle, CMP, housing of animals and maintenance of animals	CO1: They will study common practices carried out at a dairy farm. PO1: They will be able to identify the cattle breeds of



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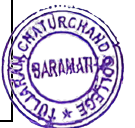
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						dairy animals
BDT 1.2	Dairy Chemistry				Study of basic analysis methods used in dairy industry	CO1: They will learn basic analysis methods used in dairy industry. PO1: They will be able to understand and perform the analysis and testing of milk samples in dairy industries.
BDT 1.3	Soft Skill Development				Resume writing, group discussion	CO1: They will know communication skill of English language in corporate world. PO1: They will acquire communication skill of English language in corporate world.
BDT - 201	Food preservation Technology				Food preservation methods	CO1: They will study methods of preservation of foods and





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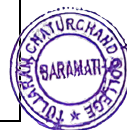
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							study the natural and chemical preservatives PO1: They will learn about study of food preservation
	BDT - 202	Milk processing technology		Processing of milk			CO1: They will know the processing and packaging of milk and machineries for milk and Milk products. PO1: They will learn about detailed processing of milk.
	BDT - 203	Dairy microbiology				Microbial growth and microbial spoilage	CO1: They will study the role of microbes in fermentation, spoilage and food borne diseases. PO1: They will Know the important genera of





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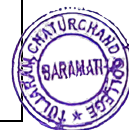
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							microorganisms associated with dairy
	BDT – 2.1	Food preservation Technology				Methods of food preservation	CO1: They will study different methods of preservation and study the natural and chemical preservatives PO1: They will study methods of preservation of foods
	BDT – 2.2	Dairy microbiology				Different methods of microbial analysis	CO1: They will study about the preparation of media, culture, identify microorganisms CO2: They will learn different methods of microbial analysis. PO1: They will know basic microbiology





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							y laboratory practices and equipment
BDT - 2.3	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 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





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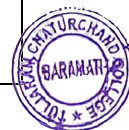
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							about Design, working and maintenance of Equipments.
BDT - 302	Fermented Milk Products		Concept of fermentation , study of different fermented milk products				CO1:learn basics of fermentation s, starter cultures, and Fermentor and To learn making process of various fermented products PO1: They will learn about fermentation and range of products made from fermentation
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





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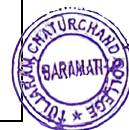
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							and toxicity of nutrients PO1: They will be able to learn about nutrients and role of nutrients in human body
	BDT – 3.1	Dairy processing equipment				Study of milk tankers, cream separator, homogenizer, and other dairy equipments	CO1: They will know about maintenance of Equipments and understand the design and working of the equipments PO1: They will learn about Design, 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





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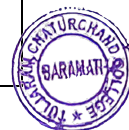
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						about fermentation and range of products made from fermentation
BDT - 3.3	Nutrition science				Study of different nutrient rich products	CO1:They will learn to prepare different nutrient rich products PO1: They will be able to learn about nutrients 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





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							milk products 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 dairy	CO1:They will study the different utilities used





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						industry like refrigerator, cold storage, etc	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 hygiene, CIP systems PO1: They will understand Food safety,





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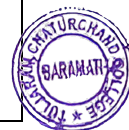
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							hygiene and sanitation
	BDT - 501	Quality Assurance and Waste Management				Study of quality and importance of quality, Sensory evaluation, waste management	CO1: They will understand the importance of quality in food production and will learn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





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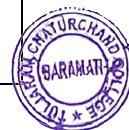
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BDT - 503	Dairy plant Management				Production management, plant operations, manpower planning, etc	CO1:They will learn key skills in managing the efficiency and man power of the dairy plant. PO1: They will learn basics of management
BDT - 5.1	Quality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





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							rich milk products. PO1: They will understand the range of products made from milk fat
BDT - 5.3	Project		project work related to design and development of innovative food product, its quality evaluation, packaging, labeling and shelf life testing				CO1:They will learn to design and develop innovative food products and work on its packaging, labeling, shelf life , etc PO1: They will learn to design and develop innovative food product, its quality evaluation, packaging, labeling and shelf life testing
BDT - 601	Entrepreneurship Development		Entrepreneurship and Market Survey and Opportunity Identification				CO1:They will understand the concept of entrepreneurship and





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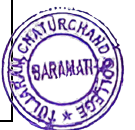
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							learn key skills for being a successful entrepreneur PO1: They will learn key skills for being a successful entrepreneur
	BDT - 602	Dairy Plant Management				Production management, plant operations, manpower planning, etc	CO1: They will learn key skills in managing the efficiency and manpower of the dairy plant. PO1: They will learn basics of management
	BDT - 603	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





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							PO1: They will learn about the packaging technology of dairy products.
	BDT-6.1	In – Plant Training		In-plant training			CO1: They will learn to prepare and study different types of milks and it's processing. PO1: They will learn about development and preparation of different types of milks.
	BDT-6.2	Dairy product development				Manufacturing process of condensed milk, SMP, WMP, Ice-cream and other dairy products.	CO1: They will understand the production of dried milk. CO2: They will understand the difference between ice-cream and frozen dairy desert.





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							PO1: They will learn about development and preparation of different types of milks.
	BDT-6.3	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.





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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)	FP-1	Principles of Food Preservation	Dehydration, Fermentation	Canning, Pasteurization, Standardization, Freezing, Chilling	Dehydration, Fermentation	Canning, Pasteurization, Standardization, Freezing, Chilling	CO1: Students will have a thorough understanding of various food processing techniques. The students will know the importance of various preservation techniques. PO1: Understand the basic concepts, fundamental principles and experimental findings and the scientific theories related to food technology, food science and Food technology & engineering and its other fields related to the program. PO6: Operate modern tools, equipment, instruments and laboratory techniques to perform the experiments and write the programs in different languages.





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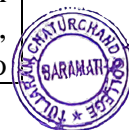
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FP-4	Nutrition Science	Fitness and Sports, Balance diet	National Nutritional Policy	Fitness and Sports, Balance diet	Balance diet, BMR	<p>Students will be able to:</p> <p>CO1: Utilize knowledge from the physical and biological sciences as a basis for understanding the role of food and nutrients in health and disease processes.</p> <p>PO4: Analytical Reasoning and Problem Solving- To enable the students with good scientific and engineering knowledge so as to comprehend, design, and create food products and devices for the food industry and provide solutions for the challenges in the food industry as well as in agriculture.</p> <p>PO1:-Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific theories related to food technology, food science and Food technology & engineering and its other fields related to the program.</p> <p>CO2: Provide nutrition counselling and education to individuals, groups, and communities throughout the lifespan using a variety of communication strategies.</p> <p>PO12: Lifelong Learning: - Propose novel ideas in explaining the scientific data, facts and figures related to</p>
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							<p>Science and technology.</p> <p>CO3: Evaluate nutrition information based on scientific reasoning for clinical, community, and food service application.</p> <p>PO4: Analytical Reasoning and Problem Solving- To enable the students with good scientific and engineering knowledge so as to comprehend, design, and create food products and devices for the food industry and provide solutions for the challenges in the food industry as well as in agriculture.</p>
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	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	CO1: Students will have a thorough understanding of various food processing techniques. PO8: Application of Knowledge: - Develop a scientific outlook and apply the knowledge with respect to food technology. CO2: The students will know the importance of various preservation techniques. PO1: Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific theories related to food technology, food science and Food technology & engineering and its other fields related to the program.
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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	CO1: Students will have a thorough understanding the unit operations followed for raw form to an edible form of cereals and legumes. PO8: Application of Knowledge: - Develop a scientific outlook and apply the knowledge with respect to food technology CO2: The students will know the importance of various methods to identify any disorder in fresh commodities. PO6: Use of Modern Tools: - Operate modern tools, equipment, instruments and laboratory techniques to perform the experiments and write the programs in different languages.
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FP -12	Baker y and Confe ctione ry Tech nolog y	-	-	-	preparation methods of bread, cake, biscuits, cookies, pastry, buns, crackers, types of quick bread, chocolate manufacture	<p>CO1: Students will have a thorough understanding the processing and preservation of appetizers.</p> <p>PO1: Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific the ories related to food technology, food science and Food technology & engineering and its other fields related to the program.</p> <p>CO2: Students will have a thorough understanding on effect of blending and baking on final product of bakery.</p> <p>PO6: Use of Modern Tools:- Operatemoderntools,equipme nt,instrumentsandlaboratoryte chniquesto perform the experiments and write the programs in different languages.</p> <p>CO3: The students will know the various extruded product development.</p> <p>PO7: Research Skills:- Understand how to design, collect, analyze, interpret and evaluate information/data that is relevant to food technology.</p>
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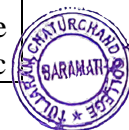
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FP -13	Dairy Tech nolog y	Manu factur ing of Ghee, Milk powd er, Khoa, milk based sweet s		Manu factur ing of Ghee, Milk powd er, Khoa, milk based sweet s	standardizati on, Homogenizat ion, Pasteurizatio n, Homogenize rs, Bottle and pouch fillers, Milk Chillers, Manufacture of Ice Cream, Cream, Paneer, Butter	<p>On completion of the course, students will be able to:</p> <p>CO1: Give a comprehensive view of the composition of milk, its chemical, physical and organoleptic properties that can be applied in technological processing of milk.</p> <p>PO4: Analytical Reasoning and Problem Solving- To enable the students with good scientific and engineering knowledge so as to comprehend, design, and create food products and devices for the food industry and provide solutions for the challenges in the food industry as well as in agriculture.</p> <p>CO2: Explain the production of milk and pre-treatment of milk.</p> <p>PO7: Research Skills:- Understand how to design, collect, analyze, interpret and evaluate information/data that is relevant to food technology.</p> <p>CO3: Explain the dairy processing technologies.</p> <p>PO1: Disciplinary Knowledge - Understand the basic</p>
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						<p>concepts, fundamental principles and experimental findings and the scientific theories related to food technology, food science and Food technology & engineering and its other fields related to the program.</p> <p>CO4: Apply methods of analysis for dairy products and relate differences in composition and structure to differences in manufacturing processes.</p> <p>PO8: Application of Knowledge:- Develop a scientific outlook and apply the knowledge with respect to food technology.</p> <p>CO5: Create a dairy product and evaluate relevant physical properties.</p> <p>PO7: Research Skills:- Understand how to design, collect, analyze, interpret and evaluate information/data that is relevant to food technology.</p>
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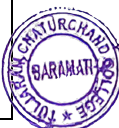
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FP -14	Food Quality, Laws and Regulations	Quality control laboratories of companies, Quality control laboratories of Consumer co-operatives, Private testing laboratories, Consumer Guidance Society	Essential Commodities Act, Standards of Weights and Measures, Export (Quality control and Inspection) Act, Bureau of Indian Standards Act, Agmark Grading and Marketing Act and Rules	Quality control laboratories of companies, Quality control laboratories of Consumer co-operatives, Private testing laboratories, Consumer Guidance Society	Prevention of Food Adulteration Act, Food Safety Standard Authority of India (FSSAI), Codex Alimentarius, Codex India, World Health Organization, International Organization for Standardization, Food and Agriculture Organization, Joint FAO/WHO Expert committee on food additives, British Retail Consortium (BRC) standard for Foods.	<p>On completion of the course, students will be able to:</p> <p>CO1: Be able to critically evaluate the recent developments in the control of food safety.</p> <p>PO3: Critical Thinking :- Propose novel ideas in explaining the scientific data, facts and figures related to Science and technology.</p> <p>CO2: Have an integrated view of the issues involved.</p> <p>PO5: Sense of Inquiry:- Curiously ask relevant questions for better understanding of fundamental concepts and principles, scientific theories and applications related to the study.</p> <p>CO3: Be able to conduct risk assessments of food safety problems including genetic modification.</p> <p>PO11: Environment and Sustainability:- Develop various communication skills such as reading, listening and speaking skills to express ideas and views clearly and effectively.</p> <p>CO4: Demonstrate detailed knowledge of the requirements</p>
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				Municipal Laboratories, Food and Drug Administration, The central Food Testing Laboratory, Export Inspection Council Laboratory		for compliance with national and international food safety legislation. PO11: Environment and Sustainability:- Develop various communication skills such as reading, listening and speaking skills to express ideas and views clearly and effectively. CO5: Know how to control and maintain a quality management system. PO9: Ethical Awareness- To train students in professional and ethical attitude, effective communication skills, teamwork skills and multidisciplinary approaches related to food Technology and engineering.
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	FP -15	Principles of Post Harvest Technology	Harvesting factors, Maturity of harvest, Harvesting Methods, Cleaning and Grading, Food storage systems		Harvesting factors, Maturity of harvest, Harvesting Methods, Cleaning and Grading, Food storage systems	Post harvest technology of Cereal, Pulses, Oilseeds, Fruits and Vegetables, meat, milk, fish & Food storage systems	<p>On completion of the course, students will be able to:</p> <p>CO1: Understand technologies of post harvest technology and its role in providing better quality produce to the consumer.</p> <p>PO1: Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific theories related to food technology, food science and Food technology & engineering and its other fields related to the program.</p> <p>CO2: Understand importance prevention of losses.</p> <p>PO4: Analytical Reasoning and Problem Solving- To enable the students with good scientific and engineering knowledge so as to comprehend, design, and create food products and devices for the food industry and provide solutions for the challenges in the food industry as well as in agriculture.</p> <p>CO3: Understand utilization of the produce and methods for shelf life extension.</p>
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						<p>PO6: 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>CO4: Understand cold chain management</p> <p>PO8: Application of Knowledge:- Develop a scientific outlook and apply the knowledge with respect to food technology.</p> <p>CO5: Learn quality control and various standards required for domestic and export market.</p> <p>PO1: Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific theories related to food technology, food science and Food technology & engineering and its other fields related to the program.</p>
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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 Measures	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 Measures	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>CO1: Identify food safety hazards and their control</p> <p>PO3: Critical Thinking :- Propose novel ideas in explaining the scientific data, facts and figures related to Science and technology.</p> <p>CO2: Identify & prevent potential sources of food contamination.</p> <p>PO3: Critical Thinking :- Propose novel ideas in explaining the scientific data, facts and figures related to Science and technology.</p> <p>PO8: Application of Knowledge:- Develop a scientific outlook and apply the knowledge with respect to food technology.</p> <p>CO3: Apply the principles of Hazard Analysis Critical Control Points (HACCP).</p> <p>PO8: Application of Knowledge:- Develop a scientific outlook and apply the knowledge with respect to food technology.</p> <p>CO4: Recognize the principal legal responsibilities of food</p>
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						<p>handlers regarding personal hygiene.</p> <p>PO4: Analytical Reasoning and Problem Solving- To enable the students with good scientific and engineering knowledge so as to comprehend, design, and create food products and devices for the food industry and provide solutions for the challenges in the food industry as well as in agriculture.</p> <p>CO5: Apply a range of food quality systems</p> <p>PO8- Application of Knowledge:- Develop a scientific out look and apply the knowledge with respect to food technology.</p> <p>CO6: Prepare a food safety plan</p> <p>PO3- Critical Thinking :- Propose novel ideas in explaining the scientific data, facts and figures related to Science and technology.</p>
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FP -18	Packaging Technology	-	-	-	Vacuum, CA and MA packaging systems, gas packaging machine; seal and shrink packaging machine; form and fill sealing machine; aseptic packaging systems; bottling machines; carton making machines	<p>On completion of the course, students will be able to:</p> <p>CO1: Describe the role and function of packaging materials used for a range of consumer food .</p> <p>PO1: Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific theories related to food technology, food science and Food technology & engineering and its other fields related to the program.</p> <p>CO2: Design solutions to packaging problems.</p> <p>PO7- Research Skills:- Understand how to design, collect, analyze, interpret and evaluate information/data that is relevant to food technology.</p> <p>CO3: Measure and evaluate the chemical, physical and mechanical properties of packages and packaging.</p> <p>PO7- Research Skills:- Understand how to design, collect, analyze, interpret and evaluate information/data that is relevant to food technology.</p>
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							<p>CO4: Explain knowledge of the legal, environmental, quality aspects associated with packaging materials and operations used in the food industry.</p> <p>PO1: Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific theories related to food technology, food science and Food technology & engineering and its other fields related to the program.</p>
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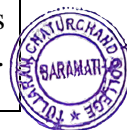
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Programme	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
			Local	National	Regional	Global	
M.Voc. Food Processing Technology (PG)	FP T-201	Beverages and Snack Food Technology	Packaged drinking water Processing, roasted, toasted, puffed, popped and flakes Coated grains-salted, spiced and sweetened Flour based snack-batter and dough based products; savoury and	FSSAI specifications for beverages	Packaged drinking water Processing, roasted, toasted, puffed, popped and flakes Coated grains-salted, spiced and sweetened Flour based snack-batter and dough based products; savoury and	FSSAI specifications for beverages, Technology for fruit and vegetable based snacks, Technology for coated nuts, technology for RTE puffed snack	<p>After learning this subject</p> <p>CO1: Students will be able to know different types of beverages found in Indian as well as international market.</p> <p>PO1:- Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific theories related to food technology, food science and Food technology & engineering and its other fields related to the program.</p> <p>CO2: Students will have better ideas regarding alcoholic and non-alcoholic Beverages with water industry.</p> <p>PO3- Critical Thinking :- Propose novel ideas in explaining the scientific data, facts and figures related to Science and technology.</p> <p>CO3: Students will have thorough knowledge of different types of cereal based</p> <p>PO1:- Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific theories related to food technology, food science and Food technology & engineering and its other fields related to the program.</p>





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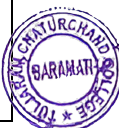
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			farsans ; formulated chips and wafers , papads .		farsans ; formulated chips and wafers , papads .		CO4: Students will get brief knowledge of fruits and vegetables based snacks. PO8- Application of Knowledge:- Develop a scientific outlook and apply the knowledge with respect to food technology.
	FP T-202	Food Additives, and Toxicology	Food, contaminants, types of food additives	-	Food contaminants, types of food additives	Toxicological evaluation of food additives	Students should be able to: CO1: Uses of additive in food material PO6- Use of Modern Tools:- Operate modern tools, equipment, instruments and laboratory techniques to perform the experiments and write the programs in different languages. CO2: Effects of toxicants in human PO3- Critical Thinking :- Propose novel ideas in explaining the scientific data, facts and figures related to Science and technology.
	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	CO1: Students will be able to understand major food preservation and Packaging techniques and underlying principles. PO1:- Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific theories related to food technology, food science and Food technology & engineering and its other fields related to the program. CO2: Students will be able to determine suitable methods of





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						<p>packaging, Aseptic packaging, Gas packaging machine, Seal and shrink packaging machine. Form and fill sealing machine, Vacuum packaging machine, Retort pouches, Bottling machines, Packaging printin</p>	<p>processing and Packaging techniques for a chosen food.</p> <p>PO7- Research Skills:- Understand how to design, collect, analyze, interpret and evaluate information/data that is relevant to food technology.</p> <p>CO3: Students will be able to understand Novel food processing methods like Thermal processing, cold preservation etc.</p> <p>PO3- Critical Thinking: - Propose novel ideas in explaining the scientific data, facts and figures related to Science and technology.</p> <p>CO4: Students will be able to understand operations involved in packaging Material manufacturing</p> <p>PO1:- Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific theories related to food technology, food science and Food technology & engineering and its other fields related to the program.</p> <p>CO5: Students will be able to understand major packaging material and methods used in food packaging.</p> <p>PO1:-Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific theories related to food technology, food science and Food technology & engineering and its other fields related to the program.</p>
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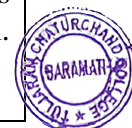
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	FP T- 301	Dairy Proce ssing Techn ology	Produc tion and proces sing of cream, butter and ghee	Challe nges faced by the Indian Dairy Suppl y Chain.	Produc tion and proces sing of cream, butter and ghee	Chees e Techn ology, Suppl y Chain Mana gemen t of Dairy Produ cts	CO1: Students will understand the concept of processing of milk and milk products. PO1:- Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific theories related to food technology, food science and Food technology & engineering and its other fields related to the program. CO2: The students will be able to explain the basics behind milk process technology that would comparatively help to get the knowledge of technical views regarding industrial aspect. PO8- Application of Knowledge:- Develop a scientific outlook and apply the knowledge with respect to food technology.
	FP T- 302	Post- Harve st Techn ology	Size reducti on proces s, Mass, Energ y balanc e and Heat transfe r,	WTO guidel ines for export of hortic ultural produ ces – COD EX standa	Size reducti on proces s, Mass, Energ y balanc e and Heat transfe r,	Unit operat ions of food proces sing, postha rvest disord ers, pest and diseas	CO1: Students will acknowledge the steps and techniques involved in post-harvest practices. PO1:- Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific theories related to food technology, food science and Food technology & engineering and its other fields related to the program.





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			Products and by products of plantation crops: cashew, areca nut, coconut, Cooling treatments for fruits, vegetables and plantation crops, Ripening methods	Products and export standards for major fruits, vegetables and plantation crops.	Products and by products of plantation crops: cashew, areca nut, coconut, Cooling treatments for fruits, vegetables and plantation crops, Ripening methods	es and their management in major horticultural crops	CO2: The students will be able to explain processing and packaging operations. PO6- Use of Modern Tools:- Operate modern tools, equipment, instruments and laboratory techniques to perform the experiments and write the programs in different languages.
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FP T3 03	Food Safety and Qualit y Mana geme nt	Good manuf acturin g practic es (GMP)	HAC CP, ISO, Codex Alime ntariu s Com missio n (CAC)	Good manuf acturin g practic es (GMP)	HAC CP, ISO, Codex Alime ntarius Comm ission (CAC)	CO1: Students will understand the concept of quality management in food processing. PO8- Application of Knowledge:- Develop a scientific out look and apply the knowledge with respect to food technology. CO2: The students will able to explain the degree of standard of any processed product. PO5- Sense of Inquiry:- Curiously ask relevant questions for better understanding of fundamental concepts and principles, scientific theories and applications related to the study.
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MEDIA AND COMMUNICATION STUDIES

Program me	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
			Local	National	Regional	Global	
B.Voc. Journalism and Mass Communication 1 st Year	JM 101	Introduction to Mass Communication				Process of Communication	PO-1,2,3,6,7 PSO-1,2,3,4,5,6 CO1,2,3,4,5,6,7
B.Voc. Journalism and Mass Communication 1 st Year	JM 102	UBJM112 Introduction to Journalism		Legal and ethical Framework			PO-1,2,3,6,7 PSO-1,2,3,4,5,6 CO1,2,3,4,5,6,7
B.Voc. Journalism and Mass Communication 1 st Year	JM 103	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		PO-1,2,3,6,7 PSO-1,2,3,4,5,6 CO1,2,3,4,5,6,7





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B.Voc. Journalism and Mass Communication 1 st Year	JM 104	Language skills- Marathi	-	-	-	-	PO- 1,2,3,6,7 PSO- 1,2,3,4,5,6 CO1,2, 3,4,5,6,7
B.Voc. Journalism and Mass Communication 1 st Year	JM 105	Computer Application for Media	MS- WORD	Web developm ent: HTML and Scripting language	Introduct ion to Photosho p		PO- 1,2,3,6,7 PSO- 1,2,3,4,5,6 CO1,2, 3,4,5,6,7
B.Voc. Journalism and Mass Communication 1 st Year	JM 106	Basics of photograp hy		Compositi on	Camera modes , Camera controls		PO- 1,2,3,6,7 PSO- 1,2,3,4,5,6 CO1,2, 3,4,5,6,7
B.Voc. Journalism and Mass Communication 1 st Year	JM2 01	News reporting and Editing-I	News Reporting and News Beats	Working on News Desks 2	Basics of News Writing, Editing		PO- 1,2,3,6,7 PSO- 1,2,3,4,5,6 CO1,2, 3,4,5,6,7
B.Voc. Journalism and Mass Communication 1 st Year	JM2 02	Writing for Media-I	Story Writing	Practice Writing	Various Types of Online Media Writing		PO- 1,2,3,6,7 PSO- 1,2,3,4,5,6 CO1,2, 3,4,5,6,7





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B.Voc. Journalism and Mass Communication 1 st Year	JM203	India after independence	-	-	-	-	CO1,2, 3
B.Voc. Journalism and Mass Communication 1 st Year	JM204	Language skills-English	Grammar Usage, Interview and Group discussion		Personality development	Writing and comprehension skills	PO-1,2,3,6,7 PSO-1,2,3,4,5,6 CO1,2,3,4,5,6,7
B.Voc. Journalism and Mass Communication 1 st Year	JM205	Feature Writing	Computer typing techniques	Writing across media	Human interest stories		PO-1,2,3,6,7 PSO-1,2,3,4,5,6 CO1,2,3,4,5,6,7
B.Voc. Journalism and Mass Communication 1 st Year	JM206	Content Production on Mobile	Creation of short Videos		Types of Content		PO-1,2,3,6,7 PSO-1,2,3,4,5,6 CO1,2,3,4,5,6,7
B.Voc. Journalism and Mass Communication 2 nd Year	JM301	News Reporting and Editing-II	Layout Design and Photojournalism		Reporting, Interviewing, Creative Editing		PO-1,2,3,6,7 PSO-1,2,3,4,5,6 CO1,2,3,4,5,6,7





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B.Voc. Journalism and Mass Communication 2 nd Year	JM 302	Writing for Media-II	Creative Content Creation		Writing for Non-Fiction Genres		PO- 1,2,3,6,7 PSO- 1,2,3,4,5,6 CO1,2, 3,4,5,6,7
B.Voc. Journalism and Mass Communication 2 nd Year	JM 303	Introduction to Radio		Radio News, Production technology	Radio News, Production technology		PO- 1,2,3,6,7 PSO- 1,2,3,4,5,6 CO1,2, 3,4,5,6,7
B.Voc. Journalism and Mass Communication 2 nd Year	JM 304	Reporting and Editing Skills	Specialized Writing, Layout and design	Photography	Writing across media		PO- 1,2,3,6,7 PSO- 1,2,3,4,5,6 CO1,2, 3,4,5,6,7
B.Voc. Journalism and Mass Communication 2 nd Year	JM 305	Radio Production	Radio Program production		Advertisement		PO- 1,2,3,6,7 PSO- 1,2,3,4,5,6 CO1,2, 3,4,5,6,7
B.Voc. Journalism and Mass Communication 2 nd Year	JM 306	Experimental Journal	produce a four-page newspaper		Design and layout		PO- 1,2,3,6,7 PSO- 1,2,3,4,5,6 CO1,2, 3,4,5,6,7





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B.Voc. Journalism and Mass Communication 2 nd Year	JM 401	Introducti on to Televisio n	News Gathering		Televisio n Program ming		PO- 1,2,3,6,7 PSO- 1,2,3,4,5,6 CO1,2, 3,4,5,6,7
B.Voc. Journalism and Mass Communication 2 nd Year	JM 402	India After Independe nce		Popular Movemen ts, Eve of new millenniu m			PO- 1,2,3,6,7 PSO- 1,2,3,4,5,6 CO1,2, 3,4,5,6,7
B.Voc. Journalism and Mass Communication 2 nd Year	JM 403	Introducti ons to Economic s		Introducti on to Indian Economy	Contemp orary Economi c Issues in State of Maharas htra	Internatio nal Trade and its impact	PO- 1,2,3,6,7 PSO- 1,2,3,4,5,6 CO1,2, 3,4,5,6,7
B.Voc. Journalism and Mass Communication 2 nd Year	JM 404	Televisio n Productio n	News Anchoring	News Productio n- Packaging and productio n	News Gatherin g and writing		PO- 1,2,3,6,7 PSO- 1,2,3,4,5,6 CO1,2, 3,4,5,6,7
B.Voc. Journalism and Mass Communication 2 nd Year	JM 405	Film Appreciat ion	Other Film Institution s		World and Indian Cinema		PO- 1,2,3,6,7 PSO- 1,2,3,4,5,6 CO1,2, 3,4,5,6,7



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B.Voc. Journalism and Mass Communication 2 nd Year	JM 406	Basics of Video production	Camera Exercise, Editing, Camera Techniques				PO- 1,2,3,6,7 PSO- 1,2,3,4,5,6 CO1,2, 3,4,5,6,7
B.Voc. Journalism and Mass Communication 3 rd Year	JM 501	Introduction to Digital Media		Social Media, New Media Theories	Digital storytelling		PO- 1,2,3,6,7 PSO- 1,2,3,4,5,6 CO1,2, 3,4,5,6,7
B.Voc. Journalism and Mass Communication 3 rd Year	JM 502	Introduction to Media Research	Data Analysis	Qualitative research methods, Quantitative research methods			PO- 1,2,3,6,7 PSO- 1,2,3,4,5,6 CO1,2, 3,4,5,6,7
B.Voc. Journalism and Mass Communication 3 rd Year	JM 503	Mass Communication Theory	Personal Influence and Sociological Theory	Normative Theories of Mass Communication	Mass Media and Culture	Mass Communication Theories	PO- 1,2,3,6,7 PSO- 1,2,3,4,5,6 CO1,2, 3,4,5,6,7
B.Voc. Journalism and Mass Communication 3 rd Year	JM 504	Content Development For Digital Media	Writing for Digital Media		Fake News and facts checking	Twitter and Instagram , YouTube	PO- 1,2,3,6,7 PSO- 1,2,3,4,5,6 CO1,2, 3,4,5,6,7





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B.Voc. Journalism and Mass Communication 3 rd Year	JM 505	Video Production Group Project	Screenplay writing, Script writing, Production Work				PO- 1,2,3,6,7 PSO- 1,2,3,4,5,6 CO1,2, 3,4,5,6,7
B.Voc. Journalism and Mass Communication 3 rd Year	JM 506	Industry Internship			Internship		PO- 1,2,3,6,7 PSO- 1,2,3,4,5,6 CO1,2, 3,4,5,6,7
B.Voc. Journalism and Mass Communication 3 rd Year	JM 601	Basics of Advertising		Theories and Models of Advertising	Understanding Brands, Working of Advertising Agency		PO- 1,2,3,6,7 PSO- 1,2,3,4,5,6 CO1,2, 3,4,5,6,7
B.Voc. Journalism and Mass Communication 3 rd Year	JM 602	Basics of Public Relations	PR during crisis		Use of Social Media in PR		PO3,PSO 2 CO1,2,3,4, 5,6,7
B.Voc. Journalism and Mass Communication 3 rd Year	JM 603	Media Management	Marketing strategies		Finance and HR Management		PO5, PSO7 CO1,2,3,4, 5





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B.Voc. Journalism and Mass Communication 3 rd Year	JM 604	Advertising Practices	Creation of Advertisement	Online platforms for advertisements	Advertising Campaign design		PO4, PSO 6 CO1,2,3,6,7
B.Voc. Journalism and Mass Communication 3 rd Year	JM 605	Dissertation/In-depth reporting (IDR)	RESEARCH PROJECT				PO6 PSO6,CO1,2,3,6,7
B.Voc. Journalism and Mass Communication 3 rd Year	JM 606	Internship			Internship		PO-1,2,3,6,7 PSO-1,2,3,4,5,6 CO1,2,3,4,5,6,7





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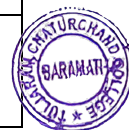
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Programme	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
			Local	National	Regional	Global	
M. Voc Media Studies 1 st year	MS 101	INTRODUCTION TO MEDIA STUDIES		Sign, Codes			PSO3 CO1,2,3,4,5
M. Voc Media Studies 1 st year	MS 102	INTRODUCTION TO JOURNALISM	Journalism	Journalism, Reuters, AP, AFP, UNI, PTI, ANI	Journalism	Journalism	PO1,2, PSO, 3, 4 CO3,4, 5,6,7
M. Voc Media Studies 1 st year	MS 103	INTRODUCTION TO VIDEO PRODUCTION	Visual Composition		People and Work		PO1,2,3 PSO-1, 2,3,4,5, 6 CO1,2, 3,4,5,6
M. Voc Media Studies 1 st year	MS 104	Writing for Media		Writing for online media	Writing for Print	-	PO-6,7 PSO-2,3,4,5, 6 CO1,2, 3,4,5,6, 7
M. Voc Media Studies 1 st year	MS 105	PHOTOGRAPHY	Employment in photography	Employment in photography	Employment in photography	DSLR camera controls and handling	PO-6,7 PSO-2,3,4,5, 6 CO1,2, 3,4,5
M. Voc Media	MS 106	INTRODUCTION TO		PHOTOGRAPHY,	ILLUSTRATOR		PO-1,2,3,6, 7





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Studies 1 st year		MEDIA SOFTWARE		ADOBE AFTER EFFECT S			PSO- 1,2,3,4, 5,6 CO1,2, 3,4,5,6, 7
M.Voc Media Studies 1 st year	MS 107	CAMERA TECHNIQUE S-I	Basic operations of camera		Basic operations of camera		PO- 1,2,3,6, 7 PSO- 1,2,3,4, 5,6 CO1,2, 3,4,5,6, 7
M.Voc Media Studies 1 st year	MS 201	VISUAL COMMUNIC ATION	Visual Design, Visual Art	Visual Theories			PO- 1,2,3,6, 7 PSO- 1,2,3,4, 5,6 CO1,2, 3,4,5,6, 7
M.Voc Media Studies 1 st year	MS 202	MEDIA, SOCIETY AND CULTURE	Mass Audiences	Media Structure and Institution , Mass Audience s	Media Structure and Institution, Mass Audiences	Media Structure and Institutio n	PO- 1,2,3,6, 7 PSO- 1,2,3,4, 5,6 CO1,2, 3,4,5,6, 7
M.Voc Media Studies 1 st year	MS 203	Media Research Methods	Research in Communi cation	Social Sciences and Research Methods	Social Sciences and Research Methods	Writing and comprehe nsion skills	PO- 1,2,3,6, 7 PSO- 1,2,3,4, 5,6





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							CO1,2, 3,4,5,6, 7
M.Voc Media Studies 1 st year	- MS 204	Camera Techniques- II	Compositi on, Shooting	Shooting	Shooting	Shooting	PO- 1,2,3,6, 7 PSO- 1,2,3,4, 5,6 CO1,2, 3,4,5,6, 7
M.Voc Media Studies 1 st year	MS 205	Experimental Journal	Productio n of Laborator y Journal				PO- 1,2,3,6, 7 PSO- 1,2,3,4, 5,6 CO1,2, 3,4,5,6, 7
M.Voc Media Studies 1 st year	MS 206	Script Writing	Writing for the Screen	Writing for the Screen			PO- 1,2,3,6, 7 PSO- 1,2,3,4, 5,6 CO1,2, 3,4,5,6, 7
M.Voc Media Studies 1 st year	MS 207	VOICE MODULATI ON AND ANCHORIN G SKILLS	Basics of Voice Modulatio n		Types of Anchoring:		PO- 1,2,3,6, 7 PSO- 1,2,3,4, 5,6 CO1,2, 3,4,5,6, 7





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M.Voc Media Studies 2 nd year	MS 301 A	Script Writing and Direction	Directing Single Camera and Multi Camera, Directing Document aries	Directing Single Camera and Multi Camera, Directing Documen taries	Directing Single Camera and Multi Camera, Directing Document aries	Directing Single Camera and Multi Camera, Directing Documen taries	PO- 1,2,3,6, 7,8,9 PSO- 1,2,3,4, 5,6,7 CO1,2, 3,4,5,6, 7
M.Voc Media Studies 2 nd year	MS 302 A	Sound and Post Production	Location Recording	Sound Editing, Advanced Post Productio n	Sound Editing, Advanced Post Production	Sound Editing, Advanced Post Productio n	PO- 1,2,3,6, 7,8,9 PSO- 1,2,3,4, 5,6,7 CO1,2, 3,4,5,6, 7
M.Voc Media Studies 2 nd year	MS 303 A	Film Appreciation	Film Language and Elements	Film Genres	Film Language and Elements	World Cinema	PO- 1,2,3,6, 7,8,9 PSO- 1,2,3,4, 5,6,7 CO1,2, 3,4,5,6, 7
M.Voc Media Studies 2 nd year	MS 304 A	Video Production Project (Group)	Video Productio n				PO- 1,2,3,6, 7,8,9 PSO- 1,2,3,4, 5,6,7 CO1,2, 3,4,5,6, 7
M.Voc Media Studies 2 nd year	MS 305 A	Video Editing	Video Editing	Video Editing	Video Editing	Video Editing	PO- 1,2,3,6, 7,8,9





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							PSO- 1,2,3,4, 5,6,7 CO1,2, 3,4,5,6, 7
M.Voc Media Studies 2 nd year	MS 306 A	Lighting Techniques	Lighting in Studio, Shooting				PO- 1,2,3,6, 7,8,9 PSO- 1,2,3,4, 5,6,7 CO1,2, 3,4,5,6, 7
M.Voc Media Studies 2 nd year	MS 301 B	Digital Journalism	Digital Story Telling, Mobile Journalis m	Business of Digital Journalis m			PO- 1,2,3,6, 7,8,9 PSO- 1,2,3,4, 5,6,7 CO1,2, 3,4,5,6, 7
M.Voc Media Studies 2 nd year	MS 402 B	Social Media Marketing	YouTube, Twitter, Facebook	YouTube, Twitter, Facebook	YouTube, Twitter, Facebook	YouTube, Twitter, Facebook	PO- 1,2,3,6, 7,8,9 PSO- 1,2,3,4, 5,6,7 CO1,2, 3,4,5,6, 7
M.Voc Media Studies 2 nd year	MS 303 B	Advertising	Creating an Advertise ment		Creating an Advertise ment		PO- 1,2,3,6, 7,8,9 PSO- 1,2,3,4, 5,6,7





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							CO1,2, 3,4,5,6, 7
M.Voc Media Studies 2 nd year	MS 305 B	Broadcast Journalism	News Gathering and writing, News Anchoring				PO- 1,2,3,6, 7,8,9 PSO- 1,2,3,4, 5,6,7 CO1,2, 3,4,5,6, 7
M.Voc Media Studies 2 nd year	MS 304 B	Group Project	News Bulletin Productio n, Creating an Advertise ment Series		Social Media Promotion		PO- 1,2,3,6, 7,8,9 PSO- 1,2,3,4, 5,6,7 CO1,2, 3,4,5,6, 7
M.Voc Media Studies 2 nd year	MS 306 B	Digital Content Development	Writing for New Media	Digital story telling	Digital story telling		PO- 1,2,3,6, 7,8,9 PSO- 1,2,3,4, 5,6,7 CO1,2, 3,4,5,6, 7
M.Voc Media Studies 2 nd year	MS 401 A	Internship	Internship		Internship		PO- 1,2,3,6, 7,8,9 PSO- 1,2,3,4, 5,6,7 CO1,2, 3,4,5,6, 7





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M.Voc Media Studies 2 nd year	MS 403 A	Video Production Project (Individual)	Video Productio n				PO- 1,2,3,6, 7,8,9 PSO- 1,2,3,4, 5,6,7 CO1,2, 3,4,5,6, 7
M.Voc Media Studies 2 nd year	MS 401 B	Internship	Internship		Internship		PO- 1,2,3,6, 7,8,9 PSO- 1,2,3,4, 5,6,7 CO1,2, 3,4,5,6, 7
M.Voc Media Studies 2 nd year	MS 402 B	Study Visit		Study Visit	Study Visit		PO- 1,2,3,6, 7,8,9 PSO- 1,2,3,4, 5,6,7 CO1,2, 3,4,5,6, 7
M.Voc Media Studies 2 nd year	MS- 403 B	Research Project/In- depth Reporting	Research Project, In-depth Reporting		Research Project, In-depth Reporting		PO- 1,2,3,6, 7,8,9 PSO- 1,2,3,4, 5,6,7 CO1,2, 3,4,5,6, 7

