



Prof. Dr. Avinash S. Jagtap
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Anekant Education Society's

TULJARAM CHATURCHAND COLLEGE

of Arts, Science and Commerce, Baramati - 413102.

Dist. Pune. Maharashtra, India.

Empowered Autonomous Status

Religious Minority Institute

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NAAC-SSR

Cycle IV

2019 - 2024

DEFENCE

Programme	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
			Local	National	Regional	Global	
FYBA	DEF1101A	Defence Mechanism of India – I	Border Security	Border Security, Internal Security	Border Security	Border Security	Program Outcomes PO3 Social competence: Course Outcome CO1: Understand the hierarchical structure and organization of the Indian military.
	DEF1201A	Defence Mechanism of India - II		Indian Army			PO4 : Disciplinary Knowledge Course Outcome 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.
	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	DS-G-2 (A)	Military Geography	Impact of Geography	Impact of Geography	Impact of Geography	Impact of Geography	-
	DS-G-2 (B)	Geopolitics	Nation and State		Nation and State		-
	S-1(A)	Indian Military System After Independence	Indian Army	Indian Army	Indian Army	Indian Army	-





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	S-2 (A)	International Relations	Realism	Realism	Realism	Realism	-
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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FYBA	DEF1101A	Defence Mechanism of India – I	Border Security	Border Security, International Security	Border Security	Border Security	Program Outcomes PO3 Social competence: Course Outcome CO1: Understand the hierarchical structure and organization of the Indian military.
	DEF1201A	Defence Mechanism of India - II		Indian Army			
	DEF1101B	Military Thinkers - I	Principles for war	Principles for war	Principles for war	Principles for war	CO3: Examine the Schlieffen Plan and understand its objectives





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							and implications.
	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	DS-G-2 (A)	Military Geography	Impact of Geography	Impact of Geography	Impact of Geography	Impact of Geography	-
	DS-G-2 (B)	Geopolitics	Nation and State		Nation and State		-
	S-1(A)	Indian Military System After Independence	Indian Army	Indian Army	Indian Army	Indian Army	-
	S-2 (A)	International Relations	Realism	Realism	Realism	Realism	-
	G3 (A)	INDIA'S NATIONAL SECURITY		National Security		India's Foreign Policy	-





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TYBA	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.Measures for Population Control	1. Major issues of Development in India 2.Measures for Population Control	1.Major issues of Development in India 2.Measures for Population Control	CO 1: Acquainting students with the problems of the economy. PO1 Research-Related Skills:
	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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F.Y. B.Com	UCBE11 1	Micro Econom ics I	1.Major issues of Develop ment in India 2.Measur es for Populatio n Control	Types of Market	Demand and supply determin ation	Price of factors of producti on	CO1: To appraise students with various concepts of public revenue and expenditur e of the governme nt.
	UCBF11 1	Banking and Fin. I	Understa nding banking structure	Technol ogy in Banking	Understa nding Indian economic s state		CO2: To understand structure of financial sector
	UCBE12 1	Micro Econom ics II	Local applicatio n				CO3: To highlight basic economic problems
	UCBF12 1	Banking and Fin. II	1.Function s of Banks 2.Method s of Remittan ces 3.Function s of RBI	Applicat ion of credit flow	1.Major issues of Develop ment in India 2.Measur es for Populatio n Control	Modern banking	CO2: To appraise students with various concepts of Banking PO3 Social competenc e:





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MA I Economics (PG)	ECO410 1	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:
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ECO410 2	Public Finance I	Budget Allocatio n	Financia l Reginal imbalan ce	WTO- Important Agreeme nts, Major developm ents since 1995	WTO- Importan t Agreeme nts, Major develop ments since 1995	CO1: To familiarize classical and modern theories of internation al trade. PO5 Personal and profession al competenc e: PO6 Self- directed and Life- long learning:
ECO410 3	Internati onal Econom ics I	Debate on Inclusive Growth	Debate on Inclusiv e Growth	India's Experien ce in Planning	Compari son of Indian Econom y with the world in major economy c Indexes	CO1: To understand the undercurre nts behind the policy making and its implem entation.
ECO410 4	Indian Econom y Policy I	1. Major issues of Develop ment in India 2.Measur es for Populatio n Control	1.Major issues of Develop ment in India 2.Measu res for Populati on Control	Understa nding Indian economie s state	Sector contribut ion	CO3: To understand limitations of Indian economy PO1 Research- Related Skills:





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ECO420 1	Micro Econom ics II	1. Functions of Banks 2. Method s of Remittan ces 3. Functio ns of RBI	Factor remuner ation	Price determin ation	Basic economi c problems	CO4: To understand limitations of Indian economy PO3 Social competenc e:
ECO420 2	Public Finance II	1. Measur es for Populatio n Control	Role of Govern ment in Organiz ed Society	Role of private sector	Public expendit ure	CO6: To understand limitations of Indian budget
ECO420 3	Internati onal Econom ics II	Debate on Inclusive Growth	Debate on Inclusiv e Growth	To link between classical and modern theories	Compari son of Indian Econom y with the world in major economi c Indexes	CO1: To understand the undercurre nts behind the policy making and its implement ation. PO2 Effective Citizenshi p and Ethics:
ECO420 4	Indian Econom y Policy II	1. Major issues of Develop ment in India 2. Measur es for Populatio n Control	1. Major issues of Develop ment in India 2. Measu res for Populati on Control	Understa nding Indian economie s state	India's Experien ce in Planning	CO6: To understand limitations of Indian economy PO4 Disciplina ry Knowledg e:





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			Local	Regional	National	Global	
SYBA	Economics CC-1C	Financial System - I			Indian financial system		CO. 2 To provide the knowledge of various financial and non-financial institutions
	Economics DSE – 1A	Micro Economics - I				Basic economic problems	CO 3 To demonstrate that the theories discussed in class will usually be applied to real-life situations.
	Economics DSE – 2A	Macro Economics - I		Employment Generation			
TYBA	General 13	Economic Development & Planning					
	Special 3	International Economics					Export composition
	Special 4	Public Finance			Budget		
S.Y.B. Com	233	BUSINESS ECONOMICS (MACRO)					





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	236(B)	Banking and Finance-I	Primary cooperatives		Indian financial system		CO. 2 To provide the knowledge of various financial and non-financial institutions.
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-financial institutions.
	355-B	Banking and Finance-Special Paper II	Credit supply	NABARD			CO. 4To understand fundamentals of modern





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							financial system. CO 6 To understand the recent trends and developments in banking system.
MA.II	EC-3001	Macro Economic Analysis-I			Employment Generation		
	EC-3002	Growth & Development -I				Global Prospects	Ability to analyze and demonstrate knowledge of the basic theories/laws in macroeconomics.
	EC-3003	Research Methodology- I	Research Application			Sampling	
	EC-3004	Economics of Finance				International Financial Institutions	CO.1 At the end of the course, the student should be able to evaluate macroeconomic concepts, models and its use in real life situations.





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ENGLISH

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			Local	National	Regional	Global	
F.Y.B.A [semester-1]	ENG 1101	Compulsory English	Grammar	Grammar	Grammar	Grammar	CO1) Students learn grammar effectively
	Short Story			An Astrologer's Day- R K Narayan	An Astrologer's Day R.K Narayan		PO1) To familiarize students with excellent pieces of prose and poetry in English s
FYBA Functional English [semester-1]	ENGFE1 103	An Introduction to English Language and Writing Skills in English		Organs of speech and Speech mechanism	Organs of speech and Speech mechanism	Organs of speech and Speech mechanism	PO2) Creating awareness about using language according to the situation.





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	Grammar			Vowels, Consonants, Consonant clusters	Vowels, Consonants, Consonant clusters	Sonnet 116- William Shakespeare	PO3) Helping learners overcome common problems of Indian speakers of English.
F.Y. B.A (Semester- I)	ENGFE1 104	Oral Communication in English		Introducing oneself	Introducing oneself	Introducing oneself	CO3) Introducing major features of spoken English.
				Describing simple events, Routine Activities of Oneself and others			PO4) Students will speak English without hesitation.
F.Y. B.A (Semester- I)	ENGGE1 102	Optional English (General Paper-I)		The Happy Prince – Oscar Wilde	The Happy Prince – Oscar Wilde	The Happy Prince – Oscar Wilde	CO4) To expose students to the basics of literature and language
	Grammar			Functions of Language			CO5) To introduce the basic units of language.





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F. Y. B. Com.	COMAE 110A	Additional English-I		The World is too much with us William Wordsw orth	The World is too much with us William Wordsw orth		PO5) To make students aware of the cultural values and the major problems in the world today
	Story			The Fortune Teller			CO6) To expose students to a good blend of old and new literary extracts having various themes
F. Y. B. Com. Semeste r I	COMCE 1101	Compulsor y English-I		The Lottery Ticket - Anton Chekov	The Lottery Ticket - Anton Chekov		CO7) To offer students good pieces of prose and poetry so that they realize the beauty and communic ative power of English





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	Language			Group Discussion and Interview Skills	Group Discussion and Interview Skills		PO6) To develop linguistic competence and communicative skills among the students
M.A. -I	ENG 4101	English Literature from 1550-1798			Sir Philip Sidney: Following lyrics from Astrophe 1 and Stella)	Sir Philip Sidney: Following lyrics from Astrophe 1 and Stella)	PSO1) The students get familiar with the major movements and figures of English Literature





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					Othello by William Shakespeare	Othello by William Shakespeare	CO8) The students develop the literary sensibility and emotional response to the literary text and the learn to appreciate the literary text.
M.A. I	ENG 4102	English Literature from 1798-2000		Charles Dickens: A Tale of Two Cities	Charles Dickens: A Tale of Two Cities	Charles Dickens: A Tale of Two Cities	PSO2) To create literary sensibility and emotional response to the literary texts and implant sense of appreciation of literary texts





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				William Wordsworth	William Wordsworth	William Wordsworth	CO9) To expose students to the artistic and innovative use of language employed by the writers.
M.A. I	ENG 4103	Contemporary Studies in English Language		Morphology	Morphology	Morphology	CO10) The learn theoretical perspectives and also learn how to apply the acquired linguistic skills in real life situations
				Syntax: A Descriptive View	Syntax: A Descriptive View	Syntax: A Descriptive View	1. PSO3) To acquaint students with the basic concepts and issues in linguistics





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M.A. I	4104	Literary Criticism and Theory		Classical Criticism	Classical Criticism	Classical Criticism	CO11) To enable the students think critical about the literary trends in English literature
				Neoclassical Criticism	Neoclassical Criticism	Neoclassical Criticism	CO12) To encourage them to deal with highly intellectual and radical content and thereby develop their logical thinking and analytical ability





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GEOGRAPHY

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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





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	GEO 1201	Human Geograph y	Migratio n and its Effects	Populatio n Explosio n	Populatio n Explosio n	Populatio n Explosio n	CO-1. Students will be able to understan d the causes and strategies to tackle with migration problem CO- 2.Studem ts can develop an d impleme nt different policies to control populatio n explosion .
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MA I Geography (PG)	GEO 4101	Principles of Geomorph ology	Erosional and Depositio nal land forms	Erosional and Depositio nal land forms	Erosional and Depositio nal land forms	Erosional and Depositio nal land forms	CO-1 Students will be able to understan d erosional and depositio nal process of river, wind and sea waves.
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	GEO 4102	Principles of Climatology	Acid Precipitation, Global Warming	Climate Change	Climate change	Climate Change	CO-1 Students will able to understand the causes global warming, climate change and acid precipitation. CO-2. Students can find out the remedies to control consequences of such calamities
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	GEO 4103	Principles of Economic Geograph y	Economi c activities	Economi c activities	Economi c activities	Economi c activities	CO-1 Students can able to identify classifica tion of economic activites.
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	GEO 4104	Principles of Population and Settlement Geography	Populatio n Dynamic s	Populatio n Dynamic s	Populatio n Dynamic s	Populatio n Dynamic s	CO-1 Students knows the approach es and various theories in populatio n and settlemen t geograph y. CO-2 Students understo od the dynamics of populatio n and its role in populatio n policies CO-3 Concepts
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							of settlement patterns and types are well understood by students. CO-4 Students are able to apply knowledge of population and settlement geography in developmental planning
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	GEO 4105	Practical in Physical Geography	Representa tion of weather elements data	Representa tion of weather elements data	Representa tion of weather elements data	Representa tion of weather elements data	CO-1. Students will be able to collect various types of weather elements data and can develop new technolo gies to collect data. CO-2. with weather data students can predict or forecast weather condition s at local or
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							regional level.
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GEO 4204	Geograph y of Disaster Managem ent	Mitigatio n of Disaster	Mitigatio n of Disaster	Mitigatio n of Disaster	Mitigatio n of Disaster	CO-1. Students can impleme nt different strategies for disaster managem ent at local and regional level CO-2. Students can develop warning system for natural disaster like Tsunami, Earthqua ke.
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	GEO 4205	Practical in Surveying	Advance surveying Techniques	Advance surveying Techniques	Advance surveying Techniques	Advance surveying Techniques	CO-1. Students will able to carry out the survey for local, regional and national level administrative authorities for different purpose like planning of town, construction of roads, bridge etc.
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	GEO4 214	Practical of Statistical Technique s for Geograph y	Correlati on, Inferentia l Statistics	Correlati on, Inferentia l Statistics			CO-1 Students are able to apply various descripti ve and inferentia l technique s on geograph ical data. CO-2. Students will enable to correlate different geograph ical data.
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HINDI

Programme	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
			Local	National	Regional	Global	
B.A. Hindi	FYBA 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 (गजल) - 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





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							के प्रति छात्रों का ध्यान आकर्षित करना।
B.Com Hindi	FYBCo m 2) HIN110 1 / HIN120 1 (C)	हिंदी सामान्य	हार की जीत (कहानी) - सुदर्शन	महाशूद्र (कहानी) - मोहनदास नैमिशराय मनुष्यता – अलीक (कविता)	महाशूद्र (कहानी) - मोहनदास नैमिशराय मनुष्यता – अलीक (कविता)	महाशूद्र (कहानी) - मोहनदास नैमिशराय मनुष्यता – अलीक (कविता)	कार्यक्रम के परिणाम (POs): PO2:- प्रभावी नागरिकता और नैतिकता: सहानुभूतिपूर्ण सामाजिक सरोकार और समानता केंद्रित राष्ट्रीय विकास का प्रदर्शन करना, नैतिक और नैतिक मुद्दों के बारे में जागरूक जागरूकता के साथ कार्य करने और पेशेवर नैतिकता और जिम्मेदारी के प्रति प्रतिबद्ध होने की क्षमता। पाठ्यक्रम परिणाम (COs): CO1) हिंदी के गद्य एवं पद्य के प्रतिनिधि रचनाकारों का परिचय देना। CO2) छात्रों की सर्जनात्मक





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							शक्ति का विकास कराना।
B.A. Hindi	SYBA 1) 2097	सामान्य हिंदी (G-2)	खेल (कहानी) - जैनेंद्र कुमार गाँव के लड़के (कविता)- सुमित्रानंदन पंत	छावनी में बेघर (कहानी) - अल्पना मिश्र गाँव के लड़के (कविता)- सुमित्रानंदन पंत	उसने कहा था (कहानी)- चंद्रधर शर्मा गुलेरी गाँव के लड़के (कविता)- सुमित्रानंदन पंत	उसने कहा था (कहानी)- चंद्रधर शर्मा गुलेरी गाँव के लड़के (कविता)- सुमित्रानंदन पंत	कार्यक्रम के परिणाम (POs): - पाठ्यक्रम परिणाम (COs): -
B.A. Hindi	2) 2098	काव्यशास्त्र (S-1)	काव्य की परिभाषा काव्य के तत्व	काव्य की परिभाषा काव्य के तत्व	काव्य की परिभाषा काव्य के तत्व	काव्य की परिभाषा काव्य के तत्व	कार्यक्रम के परिणाम (POs): - पाठ्यक्रम परिणाम (COs): -
B.A. Hindi	3) 2099	उपन्यास, नाटक तथा मध्ययुगीन काव्य (S-2)	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): - पाठ्यक्रम परिणाम (COs): -
B.A. Hindi	TYBA 1) 3097	सामान्य हिंदी (G-3)	सृजन संदर्भ और मैं (आत्मकथांश) साए में धूप (गज़ल) - दुष्यंतकुमार	सृजन संदर्भ और मैं (आत्मकथांश) साए में धूप (गज़ल) - दुष्यंतकुमार	सृजन संदर्भ और मैं (आत्मकथांश) साए में धूप (गज़ल) - दुष्यंतकुमार	सृजन संदर्भ और मैं (आत्मकथांश) साए में धूप (गज़ल) - 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): -





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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 पद्मावत महाकाव्य	जायसी का पद्मावत 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 नैतिकता, बौद्धिक संपदा अधिकारों और साहित्यिक चोरी के मुद्दों के बारे में जागरूक है। प्रासंगिक/उचि त प्रश्न पूछने के लिए पूछताछ की भावना और क्षमता प्रदर्शित करें, किसी अनुसंधान परियोजना के परिणामों की





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							योजना बनाने, निष्पादित करने और रिपोर्ट करने की क्षमता, चाहे वह क्षेत्र में हो या अन्यथा पर्यवेक्षण के तहत। पाठ्यक्रम परिणाम (COs): - CO1) प्राचीन तथा मध्ययुग के प्रतिनिधि कवियों के योगदान के विविध आयामों से छात्रों को परिचित करना। CO2) मध्ययुगीन संत एवं भक्तों के काव्य से छात्रों को परिचित कराना।
M.A. Hindi	MA-I HIN 4102/ 4202	आधुनिक हिंदी कथा साहित्य	हिंदी की श्रेष्ठ कहानियाँ – 'मुंबई कांड' - ओमप्रकाश वाल्मीकि 'पुरस्कार' - जयशंकर प्रसाद	उपन्यास - 'छप्पर': डॉ. जयप्रकाश कर्दम	उपन्यास - 'छप्पर': डॉ. जयप्रकाश कर्दम	उपन्यास - 'छप्पर': डॉ. जयप्रकाश कर्दम	कार्यक्रम के परिणाम (POs): - PO1:- अनुसंधान-संबंधित कौशल: चुने हुए क्षेत्र और संबद्ध विषयों में अनुसंधान और उच्च शैक्षणिक





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							उपलब्धियों के लिए अवसर की तलाश है और अनुसंधान नैतिकता, बौद्धिक संपदा अधिकारों और साहित्यिक चोरी के मुद्दों के बारे में जागरूक है। प्रासंगिक/उचित प्रश्न पूछने के लिए पूछताछ की भावना और क्षमता प्रदर्शित करें, किसी अनुसंधान परियोजना के परिणामों की योजना बनाने और रिपोर्ट करने की क्षमता, चाहे वह क्षेत्र में हो या अन्यथा पर्यवेक्षण के तहत। पाठ्यक्रम परिणाम (COs): - CO1) गद्य की प्रमुख विधाओं के तात्विक स्वरूप का परिचय देना। CO2) रचना के
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							आस्वादन एवं समीक्षण की क्षमता विकसित करना।
M.A. Hindi	MA-I HIN 4103/ 4203	भारतीय / पाश्चात्य साहित्यशास्त्र	रस सिद्धांत, अलंकार सिद्धांत, रीति सिद्धांत, ध्वनि सिद्धांत	रस सिद्धांत, अलंकार सिद्धांत, रीति सिद्धांत, ध्वनि सिद्धांत	रस सिद्धांत, अलंकार सिद्धांत, रीति सिद्धांत, ध्वनि सिद्धांत	अनुकरण सिद्धांत विरेचन सिद्धांत उदात्त सिद्धांत आई. ए. रिचर्ड्स का मनोवैज्ञानिक मूल्यवाद और संप्रेषण सिद्धांत	कार्यक्रम के परिणाम (POs): - PO8 :- आलोचनात्मक सोच और समस्या समाधान: आलोचनात्मक सोच के कौशल का प्रदर्शन करें और अपने सामाजिक परिवेश में स्थित समस्याओं से निपटने, व्यवहार्य समाधान प्रस्तावित करने और इसके कार्यान्वयन में मदद करने के लिए उच्च क्रम के संज्ञानात्मक कौशल का उपयोग करें। पाठ्यक्रम परिणाम (COs): - CO1) भारतीय तथा पाश्चात्य साहित्यशास्त्र





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							के सिद्धांतों का ज्ञान कराना। CO2) साहित्यशास्त्रीय अध्ययन के माध्यम से छात्रों में समीक्षात्मक दृष्टि विकसित करना।
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 प्रतिबद्ध होने की क्षमता। पाठ्यक्रम परिणाम (COs): -





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							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) 30591 / 40591	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): - पाठ्यक्रम परिणाम (COs): -
M.A. Hindi	MA-II 2) 30592 / 40592	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, तथा क्षेत्र- हिंदी का व्याकरणिक स्वरूप और विकास	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): - पाठ्यक्रम परिणाम (COs): -
M.A. Hindi	MA-II 3) 30593 / 40593	हिंदी साहित्य का इतिहास	आदिकाल भक्तिकाल	भक्तिकाल आधुनिक काल	भक्तिकाल आधुनिक काल	भक्तिकाल आधुनिक काल	कार्यक्रम के परिणाम (POs): - पाठ्यक्रम परिणाम (COs): -
M.A. Hindi	MA-II 4) 30595 / 40595	वैकल्पिक: आधुनिक हिंदी आलोचना /	आलोचना- स्वरूप, उद्देश्य, लोकगीत: परिभाषाएँ,	आलोचना और अनुसंधान, आलोचक के गुण, हिंदी	हिंदी आलोचना का विकास क्रम, लोकसाहित्य का स्वरूप,	विडम्बना (आयरनी), अजनबीपन (एलियनेशन), विसंगति	कार्यक्रम के परिणाम (POs): -





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		वैकल्पिक: लोकसाहित्य	विशेषताएँ महाराष्ट्र का लोकनाट्य- तमाशा, गोंधळ	आलोचना का विकास क्रम,	परिभाषाएँ तथा विशेषताएँ,	(एब्सर्ड), अंतर्विरोध (पैराडॉक्स), विखंडन (डीकन्स्ट्रक्शन)	पाठ्यक्रम परिणाम (COs): -
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HISTORY

Progr amme	Course Code	Cours e Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
			Local	National	Regional	Global	
B.A.	F.Y.B. A.Sem I HIS 1101	Chh. Shivaji and his times, Part I	Unit2:Ri se and Consolid ation of Maratha power.	Unit2:Ri se and Consolid ation of Maratha power.	Unit2:Ri se and Consolid ation of Maratha power.	Unit2:Ri se and Consolid ation 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.Sam bhaji and his Achieve ments	Unit1: Chh.Sam bhaji and his Achieve ments	Unit1: Chh.Sam bhaji and his Achieve ments	Unit1: Chh.Sam bhaji 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. A GEN II 2177	Moder n India	Unit III - Indian Nationali sm	Unit III - Indian Nationali sm	Unit III - Indian Nationali sm	Unit III - Indian Nationali sm	PSO 2. To articulate factual & contextual knowledge of specific places & times, to make careful comparisons (across time, space & culture).





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B.A.	S.Y.B. A. GEN II 2177	Modern India	Unit II - Rise and Growth of communism	Unit II - Rise and Growth of communism	Unit II - Rise and Growth of communism	Unit II - Rise and Growth of communism	PO 2, Problem Analysis: Provides insight into analyzing key movements, contributing to logical problem analysis.
B.A.	S.Y.B. A. SPL I 2178	Ancient India	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 arguments and point of view.
B.A.	S.Y.B. A. SPL I 2178	Ancient India-	Unit - 4. Harshavardhana and his Achievements	Unit - 4. Harshavardhana and his Achievements	Unit - 4. Harshavardhana and his Achievements	Unit - 4. Harshavardhana and his Achievements	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. A. SPL II 2179	Medieval India	Delhi Sultanate : Arts and Science.	Delhi Sultanate : Arts and Science.	Delhi Sultanate : Arts and Science.	Delhi Sultanate : 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.





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B.A.	S.Y.B. A. SPL II 2179	Medieval India	Unit – 3 Delhi sultanate : Socio-Economic, & religious life.	Unit – 3 Delhi sultanate : Socio-Economic, & religious life.	Unit – 3 Delhi sultanate : Socio-Economic, & religious life.	Unit – 3 Delhi sultanate : Socio-Economic, & religious life.	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.	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).





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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 make careful comparisons (across time, space & culture).
B.A.	T.Y.B. A. SPL III 3178	Introduction to History	Unit 5 : School of Historiography	Unit 5 : School of Historiography	Unit 5 : School of Historiography	Unit 5 : School of Historiography	PSO 01. To learn a basic narrative of historical events in a specific region of the world in a specific time frame.
B.A.	T.Y.B. 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.





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M.A.	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 .
M.A.	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.	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.





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M.A.I	SEM II HIS 4201	History and 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.Students will gain a solid understanding of historical research methodology, enabling them to conduct effective research in the field of history.
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M.A.I	SEM II HIS 4202	Evolution of Ideas and Institution in Medieval 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	CO2They will become proficient in analyzing various sources of historical information, including Persian texts, regional language sources, and foreign travelers' accounts.
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M.A.	Sem.II HIS 4203	Socio Econo mic Histor y of Marath a	Unit 4 : Social Stratifica tion and mobility	Unit 4 : Social Stratifica tion and mobility	Unit 4 : Social Stratifica tion and mobility	Unit 4 : Social Stratifica tion and mobility	CO 4 Student s will gain an underst anding of the agraria n system, land types, revenue collecti on method s, and fiscal systems in historic al India.
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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.
M.A.	SemIII HIS 32291	Ancient and Medieval Civilization of the World	Unit 2. Ancient civilizations: Egypt, Mesopotamia, Persia,India, Chin	Unit 2. Ancient civilizations: Egypt, Mesopotamia, Persia,India, Chin	Unit 2. Ancient civilizations: Egypt, Mesopotamia, Persia,India, Chin	Unit 2. Ancient civilizations: Egypt, Mesopotamia, Persia,India, Chin	CO 3 - Understanding cultural, social, religious, and economic dynamics:
M.A.	Sem III HIS 32292	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.





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M.A.	Sem III HIS 32293	HIS 5303 Economic History of Modern of Modern In India	Unit 3. Industry	Unit 3. Industry	Unit 3. Industry	Unit 3. Industry	C07 Evolution of Financial System and Banking
M.A.	Sem III HIS 32296	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 42291	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.
M.A.	Sem IV HIS 42292	Intellectual History of the Modern West	Unit 3. Revolution in Scientific thinking and its impact	Unit 3. Revolution in Scientific thinking and its impact	Unit 3. Revolution in Scientific thinking and its impact	Unit 3. Revolution in Scientific thinking and its impact	CO 3: Explore the impact of scientific revolutions on intellectual history





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M.A.	Sem IVHIS 42293	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.
M.A.	Sem IV HIS 42296	Histor y of Mahar ashtra in the 20 th Centur y	Unit 6. Towards emancip ation of Women	Unit 6. Towards emancip ation of Women	Unit 6. Towards emancip ation of Women	Unit 6. Towards emancip ation 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

Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
		Local	National	Regional	Global	
BLIS101	Foundation of Library & Information Science	Library Development	Library Development	Library Development	Library Development	CO1. The foundational aspects of library and information science (LIS), in terms of history, significant developments, major themes, organizations and institutions. PO4 :Disciplinary Knowledge: CO1: This CO contributes to disciplinary knowledge by covering the historical background, significant developments, major themes, organizations, and





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						institutions in LIS.
BLIS102	Library Management & Organization	Library Management Technical Services	Library Management Technical Services	Library Management Technical Services	Library Management Technical Services	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 PO4 :Disciplinary Knowledge: CO1: This CO demonstrates the application of a broad range of skills and attitudes necessary for effective library and information center management, aligning with the





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						overall disciplinary knowledge in LIS.
BLIS103	Reference Service & Information Sources	Online Reference Services	Online Reference Services	Online Reference Services	Online Reference Services	CO7. Acquire the understanding of reference services. PO3: Social competence and communication skills: CO7: Acquiring an understanding of reference services requires both social competence and communication skills.
BLIS104	Information Science	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.





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						PO2: Effective Citizenship and Ethics: CO7: Understandi ng the process of retrieving information from databases and online resources in a network environment is essential for effective citizenship.
BLIS1 05	Knowledge Organisatio n Classificatio n-I (Theory)	Various Classificati on Schemes	Various Classificati on Schemes	Various Classificati on Schemes	Various Classificati on Schemes	CO6: Illustrate knowledge as mapped in different classificatio n schemes PO2: Effective Citizenship and Ethics: CO6: Understandi ng how knowledge is mapped in different classificatio n schemes promotes effective citizenship by





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						providing individuals with tools to critically analyze and interpret information.
BLIS106	Information Processing : Cataloguing -I (Theory)	Cataloguing Codes	Cataloguing Codes	Cataloguing Codes	Cataloguing Codes	CO6. Will be useful to understand the basic functions and practical work in library cataloguing. PO3: Social competence and communication skills: CO6: Practical experience in library cataloguing enhances social competence by providing hands-on skills in managing information resources.
BLIS107	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	CO2. Familiar with Computer system including





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	Libraries (Theory)					hardware and software. PO6 : Self-directed and Life-long learning CO2 :This outcome encourages students to stay updated with the latest technology trends, fostering a culture of life-long learning.
MLIS 101	Information Communication & Society	Developments in Information Society	Developments in Information Society	Developments in Information Society	Developments in Information Society	2. Should be able to understand the concepts of data communication and networks. PO1 Research-Related Skills and Scientific temper: CO2: Research often involves the use of data communication and networks for data





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						exchange and collaboration. Understanding these concepts is crucial for conducting research in a digitally connected world.
MLIS 102	Introduction to Research Methodology	Research Tools.& SPSS	Research Tools.& SPSS	Research Tools.& SPSS	Research Tools.& SPSS	2. Should be able to understand the basic theory and practice of research and be familiar with qualitative and quantitative methods. PO2 Effective Citizenship and Ethics: All of the COs also contributes to Effective Citizenship and Ethics. For example, CO2, and CO3 The students will be understand





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						TQM, Management, change management ethics CO4 students to use their Effective management system in library.
MLIS 103	Information Retrieval	Information Models	Information Models	Information Models	Information Models	6. Understand the various information retrieval models PO1 Research-Related Skills and Scientific temper: CO6 community building in library marketing.
MLIS 104	Management of Libraries & Information Centres-A	Human Resources Management	Human Resources Management	Human Resources Management	Human Resources Management	4. Should be capable of managing the human resources beneficially. PO5 Personal and professional competence: CO4 : contribute to the





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						development of students' Personal and professional competence.
MLIS 105	Information Technology (Theory)	Library Digitization	Library Digitization	Library Digitization	Library Digitization	3.To examines basic concepts and theories of digital libraries PO3 Social competence and communication skills: CO3, CO4, CO5 also contributes to Social competence and communication skills For example CO3, CO4, CO5 students will be use to communication technology.





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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	MARGEN 1101	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 ज 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	MARGEN 1201	आधुनिक मराठी साहित्य व व्यावहारिक मराठी	Poetry Language Skills काळी आई	Entrepreneurs जन्मदात्री आई	Regional Language Skills मातृभाषा	Translators दैवत माऊली	Po5 Personal and professional competence Pso- लेखन-संपादन, लेखन - विद्या, भाषांतर, रूपांतर, अनुवाद, वक्तृत्व कला,





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							नाट्यकला, याअभिव्यक्तीच्या आविष्कार प्रकार व प्रक्रियाविषयी तसेच त्यासंबंधीची माहिती होईल. Co- प्रसार माध्यमांमध्ये विद्यार्थ्यांना आपले विचार निर्भीडपणे मांडण्याचे कौशल्य प्राप्त होईल.
F.Y.B. COM Sem. I	COMMA R1107B	व्यावहारिक व उपयोजित मराठी	Language & Literature Skill कर्मयोगी शिक्षणतज्ञ - डॉ. राम ताकवले	Multi Language Skills अ भिनय सम्राट - डॉ. श्रीराम लागू	Regional Language Skills प्रख्यात धन्वंतरी - डॉ.ह.वि. सरदेसाई	Job Opportunity रा ष्ट्रीय 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 प्रभावी वापर करता येईल.
F.Y.B. COM Sem. II	COMMA R1207B	व्यावहारिक व उपयो	Language Skills	Multi Language Skills	Regional Language Skills	Job Opportunity	PO8: Critical Thinking





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		जित मराठी	अर्जलेखन इतिवृत्त लेखन	कार्यालयीन टिपणी लेखन	घोषणापत्रक निविदा माहितीपत्रक	सारांश लेखन सूत्रसंचालन	and Problem solving: PSO-. विद्यार्थ्यांची भाषिक कौशल्याच्या वापरासंबंधीची क्षमता विकसित होईल. Co-.भाषिक क्षमता व कौशल्य आत्मसात करता येतील.
SYBA SEM III	MARGEN 2301	आधुनि क मराठी साहित्य आणि उपयो जित मराठी	Stories Language Skills KkuT;ksr h lkfo=hckb Z 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 % दूरदृष्ट jktk&ckck HkkaM	Translete rs MkW- ckcklkgsc vkacsMdj % fo slkBh [kMrj izokl& /kuat; dhj	
SYBA SEM III	MARSPL 2302	मराठी साहि त्याती ल विविध साहित्य प्रवाह	Poetry Language Skills निवडक कथा व विविध वाङ्मय प्रकारचा अभ्यास	Entrepren eurs निवडक कादंबरी, व विविध वाङ्मय प्रकारचा अभ्यास	Regional Language Skills निवडक कविता व विविध वाङ्मय प्रकारचा अभ्यास	Translete rs निवडक नियतकालिके विविध वाङ्मय प्रकारचा अभ्यास	
SYBA SEM III	MARSPL 2303	अर्वाची न मराठी वाङ्म याचा इतिहास	Language & Literature Skill निवडक कथा व विविध वाङ्मय	Multi Language Skills निवडक कादंबरी, व विविध वाङ्	Regional Language Skills निवडक कविता व विविध वाङ्मय	Job Opportun ity निवडक नियतकालिके विविध वाङ्मय	





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		(१८१ ८ ते १९२०)	प्रकारांचा अभ्यास	प्रकारांचा अभ्यास	प्रकारांचा अभ्यास	प्रकारांचा अभ्यास	
SYBA SEM IV	MARGEN 2401	आधुनि क मराठी साहित्य आणि उपयो जित मराठी	Stories Language Skills e;kZn'khy thoukpk vkys[k & Jherh izfrHkkrk bZ 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	Translete rs foLrkj.kk js f{kfrt& MkW- rkjk HkokGdj	
SYBA SEM IV	MARSPL 2402	मराठी साहि त्याती ल विविध साहित्य प्रवाह	Language Skills कादंबरी - "७२ मैल" अशोक व्हटकर	Entrepren eurs कादंबरीचे घटक	Regional Language Skills कादंबरीचे प्रकार	Anchor कथानक	
SYBA SEM IV	MARSPL 2403	अर्वाची न मराठी वाड्म याचा इतिहास (१९२ ० ते १९६०)	Language & Literature Skill निवडक कथा व विविध वाड्मय प्रकारचा अभ्यास	Multi Language Skills निवडक कादंबरी, व विविध वाड्मय प्रकारचा अभ्यास	Regional Language Skills निवडक कविता व विविध वाड्मय प्रकारचा अभ्यास	Job Opportun ity निवडक नियतकालिके विविध वाड्मय प्रकारचा अभ्यास	
SYBA SEM IV	PR-1	Proj ect-1	Language Skills	Multi Language Skills	Regional Language Skills		
T.Y.B. A. SEM-V	MARGEN 3501	आधुनि क मराठी	Stories Language Skills	Multi Language Skills ग्रंथ परीक्षण	Regional Language Skills	Translete rs संवाद कौशल्य	





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		साहित्य प्रकारांचा अभ्यास	'उद्याच्या सुंदर दिवसांसाठी' - डॉ. नागनाथ कोत्तापल्ले,		ललित गद्य स्वरूप		
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. Regional Language Skills	आस्वादक	
T.Y.B.A. SEM-V	MARSPL 3503	मराठीचा भाषिक अभ्यास	Language Skills बहुभाषिकत्व	Multi Language Skills भाषाभेद	Regional Language Skills बोलीभूगोल	Translators अनुवाद	
T.Y.B.A. SEM-VI	MARGEN 3601	आधुनिक मराठी साहित्य प्रकारांचा अभ्यास	Stories Language Skills 'दोन चाक आणि मी' - लेखक- हृषीकेश पाळंदे,	Multi Language Skills प्रवासवर्णनाचे घटक	Regional Language Skills प्रवासवर्णनाची परंपरा	Translators प्रवासवर्णनकार	
T.Y.B.A. SEM-VI	MARSPL 3602	साहित्य विचार	Language Skills आस्वादकाचे गुण	Multi Language Skills लेखक, वाचक आणि भाषा	Regional Language Skills अभिरुची नियंत्रित करणारे घटक	Translators साहित्य प्रकार संकल्पना	





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				यांची सामाजिकता			
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	
T.Y.B. A. SEM-VI	PR-2	Project-2	Language Skills भाषिक कौशल्य	Multi Language Skills लेखन कौशल्य	Regional Language Skills संकलन	Translators	
MA I Marathi Sem. I	MAR4101	व्यावहारिक आणि उपयोजित मराठी भाग-१	Language Skill मुद्रित शोधन	Multi Language Skills प्रमाणलेखन	Regional Language Skills मुलाखत लेखन	Job Opportunities मुलाखतकार, मुद्रितशोधक	PO4:Disciplinary Knowledge: PSO. भाषेचे विविध व्यवहार आणि साहित्याच्या संदर्भातील भाषा व्यवहार याविषयीची आकलनाची क्षमता विकसित होईल. CO- व्यवहारिक व उपयोजित भाषेची ओळख होईल तसेच कौशल्य विकसित होतील.
	MAR4102	मध्यम गीन मराठी वाङ्मयाचा इतिहास (प्रारंभ)	Literature Skill वाङ्मयाचा इतिहास	Literature Knowledge Skill विविध वाङ्मय प्रकार	Regional Language Skills विविध वाङ्मय वाटचाल	Job Opportunity लेखक	Po1 Research-Related Skills: pso-विशिष्ट कालखंडातील साहित्याच्या





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		ते १६००)					अभ्यासाच्या व्याप्ती बद्दल विद्यार्थ्यांची जाण वाढीस लागण्यास मदत होईल. CO- मराठी भाषेची उत्पत्ती विकास व स्थित्यंतराची ओळख होईल.
	MAR4103	भाषावि ज्ञान- वर्णना त्मक	Language Skills स्वन विज्ञान	Multi Language Skills अर्थाचे विविध प्रकार	Regional Language Skills स्वनिम निश्चितीची तत्वे	Transle ters बहुभाषिक	PO1 Research- Related Skills: pso- विद्यार्थ्यांची भाषिक अभिव्यक्ती सुधारण्यास तसेच पर्यायाने समाजाची भाषिक अभिवृद्धी विकसित होण्याची प्रक्रिया सुरू होईल. CO- विद्यार्थ्यांना शास्त्रीय दृष्ट्या भाषेचा परिचय होईल.
	MAR4104	ग्रामीण साहित्य	Language Skill ग्रामीण कथा	Multi Language विविध बोलींचा अभ्यास	Social & Regional Language Skills सामाजिक बांधिलकी	Author ग्रामीण लेखकांचा अभ्यास	PO3: Social competen ce: pso- लेखकाच्या समग्र लेखक म्हणून अभ्यासाची जाण विकसित होईल तसेच विविध साहित्य





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							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 competence: pso-लेखन- संपादन, लेखनविद्या -, भाषांतर, रूपांतर, अनुवाद, वक्तृत्व कला, नाट्यकला, या अभिव्यक्तीच्या आविष्कार प्रकार व प्रक्रियाविषयी तसेच त्यासंबंधीची माहिती होईल. CO-भाषेच्या माध्यमातून चालणाऱ्या व्यवसायाची ओळख होईल.
	MAR4202	मध्ययुगीन मराठी वाङ्मयाचा	Language Skill कथा कादंबरी नाटक चरित्र	Multi Language Skills	Literature Development Skills	Language Based Job Opportunities	Po1 Research-Related Skills: pso-





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		इतिहास (प्रारंभ १६०० ते १८१८)		विविध वाङ्मयाचा परिचय	साहित्य प्रकार, वाटचाल, आलेख	समीक्षक	साहित्याविषयी ची प्राचीन, मध्ययुगीन, आधुनिक, भारतीय व पाश्चात्य विचारांबाबत समज वाढविण्यास मदत होईल. CO-मराठी वाङ्मयाची ऐतिहासिक सामाजिक धार्मिक आणि राजकीय पार्श्वभूमी लक्षात येईल.
	MAR4203	भाषावि ज्ञान- सामाजि क	Language Skills सामाजिक बोली	Multi Language Skills समाज आणि मानसशास्त्र	Regional Language Skills स्त्रियांची भाषा पुरुषांची भाषा	Translete rs बहुभाषिक	PO3: Social competen ce: pso-भाषेचे विविध व्यवहार आणि साहित्याच्या व समाजाच्या संदर्भातील भाषा व्यवहार याविषयीची आकलनाची क्षमता विकसित होईल. CO- भाषा आणि समाज यांचा परस्पर संबंध लक्षात येईल.





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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.
M. A. II Sem.III	MAR5301	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	MAR5302	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	MAR5303	विशेष लेखकाचा	Language Skill लेखन शैली	Multi Language Skills	Social & Regional	Language Based Job	





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		अभ्यास – मध्ययुगीन		लेखकाची जडणघडण	Language Skills लेखकाची सामाजिकता सांस्कृतिक परिप्रेक्ष	Opportunities जीवन विषयक दृष्टिकोन	
M. A. II Sem.III	MAR5304	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	MAR5401	प्रसारमाध्यमे आणि साहित्य व्यवहार	Language Skill वृत्तपत्रातील भाषा	Multi Language Skills चित्रपटातील भाषा पटकथा लेखन	Social & Regional Language Skills समाज माध्यम मधील भाषा	Language Based Job Opportunities संपादक, दिग्दर्शक पटकथा लेखक	
M. A. II Sem.IV	MAR5402	साहित्य संशोधन	Language Skill संशोधकाचे गुण	Multi Language Skills संशोधन परंपरा	Social & Regional Language Skills अंतर्विद्या क्षेत्रीय संशोधन	Language Based Job Opportunities संशोधक	
M. A. II Sem.IV	MAR5403	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.IV	MAR5404	साहित्याचा सामाजिक	Language Skill	Multi Language Skills	Social & Regional	Language Based Job	





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		क दृष्टीने अभ्या स	लेखकाची सामाजिकता	सामाजिक बांधिलकी	Language Skills लेखक वाचक आणि भाषा सहसंबंध	Opportunities संशोधक	
M. A. II Sem.IV	SDC-2	भाषिक कौशल्ये	Language Skills भाषिक कौशल्य	Multi Language Skills लेखन कौशल्य	Regional Language Skills संकलन	Translators संवादक	
M. A. II Sem.IV	PR-1	Project-1	Language Skill लेखनतंत्र	Multi Language Skills सर्वेक्षण कौशल्य	Social & Regional Language Skills निष्कर्ष तंत्र	Language Based Job Opportunities संशोधन तंत्र विकसितता	PO8: Critical Thinking and Problem solving: PSO. भाषेचे विविध व्यवहार आणि साहित्याच्या संदर्भातील भाषा व्यवहार याविषयीची आकलनाची क्षमता विकसित होईल. CO- विद्यार्थ्यांची चिकित्सक अभ्यासाची क्षमता विकसित होईल.
S.Y.B. SC III	III	मराठी विज्ञान साहित्य आणि व्यावहारिक मराठी	Stories Language Skills विज्ञान कथा	Multi Language Skills वैज्ञानिक दृष्टी	Regional Language Skills तार्किकता	अनुमान	
S.Y.B. SC IV	IV	मराठी विज्ञान साहित्य	Stories Language Skills	Multi Language Skills	Regional Language Skills	Translators वैज्ञानिकता	





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		आणि व्यावहा रिक मराठी	विज्ञान कथा	वैज्ञानिक जाणीव	वैज्ञानिक दृष्टिकोन		
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PHILOSOPHY AND 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)	PHIL101	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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							CO2: Students learn new technical terminologies.
	PHIL1201	Moral Philosophy	Areas of Ethics	Areas of Ethics	Areas of Ethics	Areas of Ethics	PO1:Entrepreneurial 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-day 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





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SANSKRIT

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 Sanskrit (UG)	SAN101	INTRODUCTION TO SANSKRIT LITERATURE-I		Gajastara Nanyate - A Story from Panchatantra	Critical Study of Pandurangashtakam	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: Demonstrate a blend of





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							tradition al knowled ge along with its applicati on in the modern lifestyle.
	SAN1 201	INTRODU CTION TO SANSKRIT -II		Danvee rah from Mahabh arat		Sarvadharm a parishad	CO4 - To acquire research and inquiry skills CO5 - To cultivate personal and professio nal compe tence PSO.9 Ethics: Recogni ze different value systems, includin g their own,





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

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.	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





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							sociological concepts. Pos: 1 Student will be able to learn how to study the society scientifically. Pos: 2 Student will be able to understand how the tools of analysis and methods of sociology are applicable to work and involvement in their community.
S.Y.B. A.	2377	Population and Society	Fertility and Mortality	population and poverty	Nature and characteristics of Indian	Migration	COs: 1 Students are able to understand the





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					populatio n		nature, scope and concepts related to populatio n studies. COs: 2 Students are able to critically analyze the theoretic al perspecti ve of populatio n studies. Pos: 1 Students are able to evaluate the populatio n policy and populatio n profile of India.
	2378	Foundati on of Sociologi cal Thought	Dominant Caste	Sanskritiz ation	Theory of Class Strugle	Indology	COs: 1 Students are familiariz ed with social, political, economic and intellectu





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							al 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.
	2379	Indian Society : Issues and Problems	Caste and Gender	Problems of Minorities	Problems of Youth	Old Age Problems	COs: 1 Students are able to understand social issues and are empowered to face social problems. COs: 2 Students





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							are able to understand changing nature of social problems in India. Pos: 1 Students are able to analyze social issues and problems using different sociological perspectives.
T.Y.B. A.	3377	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





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							behavior and social, cultural, and institutional forces. COs: 2 Learn about the current state of knowledge regarding social variation crime and reactions to crime and the social consequences of this variation. COs: 3 Critically analyze the conceptual and empirical underpinning of research on the above topics.
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							Pos: 1 Identify significant new research questions related to the study of crime in society.
	3379	Contemporary Indian Society	Changing nature of marriage, family and household	Economic Development	Agriculture in Post Independence India	Debates around lesbian, gay, bisexual, transgender & queer (LGBTQ)	COs: 1 Students are able to provide an Introduction of Social Structure & Social Change. COs: 2 Students are able to understand the building of modern India as a nation in its complete complexity. Pos: 1 Comprehend the historical





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							context to the current socio-economic trends and problems confronted by Contemporary India.
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BBA CA

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 understand and





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							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-





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							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.
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





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							statements, their components and how information from business transactions flows into these
							statement s 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 110 4	Business Communication	Media of Communication, Oral Communication	Media of Communication, Oral Communication	Media of Communication, Oral Communication	Media of Communication, Oral Communication	CO1. Communicate effectively in real life situation. CO2. Demonstrate the use of basic and advanced





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							business writing skills. 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
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							documentation, 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





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							Learning: Recognize the need and have the ability to engage in independent continuous reflective learning in the context of technological advancement
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





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							structures and applications. Also learn 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 1201	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





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							n. CO2. Illustrate dynamic memory allocation functions, access specifiers and the friend functions. CO3. Demonstrate the use of constructors, destructors and also the behavior of inheritance and its implementati on. 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
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							problems and design system components or processes that meet the specified needs with appropriate consideration for public health and safety and the cultural, societal, and environmental considerations.
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





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							to a relational model. CO3. Analyze the principle input and output parameters of DBMS as applicable to database manipulation strategies. CO4. Construct queries in SQL or relational Algebra to perform CURD (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
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							specified needs with appropriate consideration for public 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





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							CO7. Apply the knowledge, techniques, and skills in the development 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	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





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							reports that serve the purpose of providing clearly understandable information for readers 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. PO8. Life-Long Learning: Recognize the need and have the ability to engage in independent continuous reflective learning in the context of technological advancement. PO10. Communication: Able to use interpersonal
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							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, and make effective presentations.
BC A 120 5	Business Commerce	Functions of E-commerce, Electronic Business, Electronic payment System, Internet Marketing	Functions of E-commerce, Electronic Business, Electronic payment System, Internet Marketing	Functions of E-commerce, Electronic Business, Electronic payment System, Internet Marketing	Functions of E-commerce, Electronic Business, Electronic payment System, Internet Marketing	Functions of E-commerce, 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,





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							current and emerging business models. 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.
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BC A 120 6	Practical Lab- II [Based on BCA120 1 and BCA120 2]	Inheritan ce, Function Overloadi ng, file handling , DDL, DML Comman d, Stored Procedur es, Stored Functions , Cursor, Trigger	Inheritan ce, Function Overloadi ng file handling , DDL, DML Comman d, Stored Procedur es, Stored Functions , Cursor, Trigger	Inheritan ce, Function Overloadi ng, file handling, DDL, DML Comman d, Stored Procedur es, Stored Functions , Cursor, Trigger	Inheritan ce, Function Overloadi ng, file handling, DDL, DML Comman d, Stored Procedur es, Stored Functions , Cursor, Trigger	CO1.Implemen t object oriented concepts such as objects, class abstraction and message passing CO5.Demonstr ate SQL queries using SQL operators and Explain the concept of relational algebra. CO6.Implemen t 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
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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.
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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	Nationa l	Regional	Global	
B.Com	COMFA 1102	Financial Accounti ng I	Accounti ng Principle s	conversi on of partners hip firm	Consign ment Accounti ng Process and books maintains	Account ing standard s	PO1. Indepe ndent learning : Demonstrat e the ability to acquire knowledge and business skills, the capacity for self- directed activity and the ability to work independen tly
B.Com	COMED 1104B	Entrepre neurship Develop ment I	Entrepre neurship Develop ment	Regiona l Imbalan ce	regional Imbalanc e	Economi c Develop ment	PO2. This course will offer the fundamenta ls of starting and operating business. It will provide special opportuniti es for women entrepreneu rs.





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B.Com	COMCP 1106A	Consumer Protection and Business Ethics I	Problem of Consumer	Consumer Protection Act	Consumer and Consumer Movement	Voluntary Consumer Organization	CO1.This will help the students to make them aware about the concept of consumerism and rights of consumer.
B.Com	COMMS 1106B	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	COMFA 1202	Financial Accounting II	Accounting Records Skills	GST Accounting Records Procedures	Higher Purchase Accounting system	Accounting standards	CO1.Independent learning : Demonstrate the ability to acquire knowledge





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							and business skills, the capacity for self-directed activity and the ability to work independently
B.Com	COMED 1204B	Entrepreneurship Development II	Women Entrepreneurs	Autobiography of Entrepreneurs	Women Entrepreneurs	Women Entrepreneurs	PO2.The students can understand the traits and qualities of entrepreneurs. It will provide special opportunities for women entrepreneurs.
B.Com	COMCP 1206A	Consumer Protection and Business Ethics II	Business Ethics	Corporate Social Responsibility	Current Issues of Business Ethics	Corporate Governance and Business Ethics	PO3.It would also enable the students about various laws related to consumer protection in India.





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B.Com	COMMS 1206B	Marketing And Salesman ship II	Rural Marketing	Digital Online marketing	Challenges of Marketing	International Marketing	PO2.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	201	Business Communications	Basic Communication Skills, Letter Writing	Oral Presentation Skills, Report Writing	Barriers to Communications, Business Correspondence	Soft Skills, International Correspondence	PO3.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





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							and other business.
B.Com	202	Corporate Accounting	Company Final Account, Inventory Accounting and Pay roll Accounting	Holding Company, Liquidation of company	Valuation of Shares, Amalgamation and Absorption	Accounting Standard, Accounting for construction	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. The students to get knowledge about corporate accounting procedure such as reconstruction of companies, amalgamation





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							on and absorption of companies.
B.Com	204	Business Management	Bussines Planning, Motivation, Leadership, Co-ordination, Control	Recent trends in Management, Motivation, Leadership, Co-ordination, Control	Performing management Functions, Motivation, Leadership, Co-ordination, Control	Understanding Global Business management challenges and practices, Control, Recent Trends	CO3.This will provide an understanding about recent trends in business management also Leadership quality : Exhibit qualities associated with leadership such as accountability, integrity, respect, self-reflection,
B.Com	205	Elements of company Law	Company Act, Company Formation	Incorporation of a Company	Capital of Company, Environment Issues.	Transfer of Shares, Corporate social Responsibilities	CO4.This Course help to getting the knowledge of fundamentals of





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							Company Law, update the knowledge of provisions of the Companies Act of 2013
B.Com	206	Marketing Management I	Retail marketing, Green Marketing, marketing planning, Marketing Information System and marketing research	Current Marketing Environment in India, Green Marketing, marketing planning, Marketing Information System and marketing research, e-marketing	Current Marketing Environment in India, Green Marketing, marketing research, e-marketing	Green Marketing, marketing planning, Marketing Information System and marketing research, e-marketing	CO1. Students will be demonstrate the ability to acquire knowledge and business skills the capacity for self-directed activity and the ability to work independently. Students will be demonstrate the ability to acquire knowledge and business skills the capacity for self-directed activity and the ability to work





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							independently
B.Com	206	Cost and Works Accounting I	Elements of cost, Material Accounting	material Control, Remuneration and Incentives	Tender and quotations Inventory Control	Just in time Overheads	CO2. Independent learning: Demonstrate the ability to acquire knowledge and business skills, the capacity for self-directed activity and the ability to work independently. Knowledge and Critical Thinking: Acquire skills in organizing, analysing, evaluating and presenting information. Able to analysis





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							issues logically, consider different options and viewpoints, make decisions and act with flexibility, adaptability and creativity.
B.Com							
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	PO1. 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





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							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	PO2. This help students to getting the knowledge of fundamentals of accounting and update the knowledge of provisions of the Maharashtra Cooperative Society Act of 1960, Students will be demonstrate the ability to acquire knowledge to analysis issues logically, consider different options and viewpoints,





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							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	CO2. Students will be demonstrate the ability to acquire knowledge and business skills, the capacity for self-directed activity and the ability to work independently. It will help students to get knowledge about Income Tax Act and also get away regarding provision of residential status and incident of tax





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B.Com	305	Marketing Management II	Rural Marketing Issues, Agree Products	Social Responsibilities	Marketing Issues, Industrial Marketing Issues	Global Marketing Issues	PO2. 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, Globalizations	PO1. 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 of marketing and salesmanship and its application in today's world.





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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, Non-integrated Accounting	Uniform Costing, Cost Accounting Record Rules	MIS in Costing, Cost Audit	CO1.It would enable the students to acquaint the recent trends in the field of costing.
M. Com	COMM A4101	Management Accounting	Application of Management Accounting	Ratio Analysis, Working Capital	Ratio Analysis, Working Capital	Ratio Analysis, Working Capital	PO2.This will help the students to get in-depth knowledge about Management Accounting and its importance.
M. Com	COMSM 4102	Strategic Management	Strategic Planning	Marketing Strategies	Development of Strategies	Implementation of Strategies at Global level	CO2.The course will help the students to get a thorough knowledge about strategic management.





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M. Com	COMAA 4103	Advance Accounting	Accounting Principles	Accounting Standards	Accounting Standards	IFRS	PO2.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	COMIT4 104	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 residential status and incident of tax
M. Com	COMFA C4201	Financial Analysis and Control	Cost of Capital, Marginal Costing	Budget, Budgetary Control	Budget, Investment Decision	Budget, Investment Decision	PO1.This will help the students to enable students to acquire





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							sound knowledge of Concepts, methods and techniques of management accounting
M. Com	COMIE4 202	Industrial Economics	Industrial Location issues	Industrial Efficiency and Productivity	Regional Industrial Imbalance	Foreign Capital	PO2.The course will be able to apply economic theories and methodologies in Industrial Location issues in various determinants of the size and structure of industries.
M. Com	COMSA A4203	Specialized Areas in Accounting	Accounting Standards	Accounting Standards	IFRS	IFRS	PO1.The course will help the students to get knowledge about International Financial Reporting Standards. It would be aware





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							about the accounting treatments for corporate restructuring.
M. Com	COMBT AP4204	Business Tax Assessment and Planning	Assessment and Planning	GST	GST	GST	PO2.It would enable the students to acquaint the recent trends in the field of Business Tax Assessment and Planning.
M. Com	201A	Business Finance	Sources of Finance	Financial Planning	Working Capital Management	Equity and Debt	CO3.Students will understand the characteristics of different financial assets such as money market instruments, bonds, and stocks and how to buy and sell these assets in Capital Markets.





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M. Com	202A	Research Methodology for Business	Research methodology	Research methodology	Research methodology	Research methodology	CO3.The course offers to the under graduate students to learn about the various applications of research methodology, role of research methodology in the business.
M. Com	203A	Advanced Auditing	Auditing	Audit of Limited Companies	Corporate Governance	CIS Environment	CO3.This course will enable students about audit process and procedure to be conducted in corporate sector. Course will also make them able to find out the frauds and errors which may occur in various types of companies.





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M. Com	204A	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
M. Com	201B	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	CO3. Students will be knowledgeable of domestic and international economy and organizational environment knowledge of ethics and ethical standard
M. Com	202B	Industrial Economic Environment	Industrialization	Economic Environment	Industrial Pollution	Stand up and Startup	PO1. This course will understand the basic concepts of Industrial Finance. It will develop awareness regarding





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							various industrial and environmental issues in India.
M. Com	203B	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	CO2. 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	204B	Project Work	Survey	Analytical reporting	Societal use	Analytical reporting	CO2. This course will enhance research, analytical and research reporting skills among the students





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DTL	PGDTL-101	General Law Affecting Taxation	Legal Provisions	HUF	Indian constitution	International Law	CO1.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.
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	Co2.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





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							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	CO2. Students can also acquire practical skills to work as tax consultant, audit assistant and other financial supporting services. Students will complete a Project/ Written Assignment that integrates career orientation and professional development skills.





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DTL	PGDTL-105	Business Accounting Practices	Principles and practices	Subsidiary books	Bank reconciliation statement	Preparation of Financial statements	CO2.The course structure of this paper would equip the students to get in-depth knowledge of financial accounting along with its practical application thereby giving an opportunity to gain easy access to this competitive business world.





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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	
F. Y. B.Sc. Sem. I	BOT 1101	Plant Diversity	Idea of economic importance of cryptogams and phanerogams.	Idea of economic importance of cryptogams and phanerogams.	Idea of economic importance of cryptogams and phanerogams.	Idea of economic importance of cryptogams and phanerogams.	PO1: Disciplinary Knowledge. CO1. Identify, describe and study in detail life cycle of Phanerogams.
	BOT 1102	Applications of Botany - I	Knowledge of floriculture and nursery industries.	Knowledge of floriculture and nursery industries.	Knowledge of floriculture and nursery industries.	Knowledge of floriculture and nursery industries.	PO 4: Research-related skills and Scientific temper. CO7. Expertise in field of Industrial Botany.
	BOT 1103	Practical based on BOT 1101	Knowledge of handling of	Knowledge of handling of	Knowledge of handling of	Knowledge of handling of	PO1: Disciplinary





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		and BOT 1102	microscop e and identificat ion of lower and higher plants.	microscop e and identificat ion of lower and higher plants.	microscop e and identificat ion of lower and higher plants.	microscop e and identificat ion of lower and higher plants.	Knowled ge CO2. Knowled ge of morpholo gical and anatomic al variations in crypt ogams.
F. Y. B.Sc. Sem. II	BOT 1201	Angiosp erm Morphol ogy	External and internal characteri stics of flowering plants.	External and internal characteri stics of flowering plants.	External and internal characteri stics of flowering plants.	External and internal characteri stics of flowering plants.	PO1: Disciplin ary Knowled ge CO1. Describe the morpholo gy and reproduct ive structure of Phaner ogams.
	BOT 1202	Applicat ions of Botany - II	Experts to setup agro- industry.	Experts to setup agro- industry.	Experts to setup agro- industry.	Experts to setup agro- industry.	PO 7: Effective Citizensh ip and Ethics. CO3. Know scope of





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							the industrially important fungi and their applications.
	BOT 1203	Practical based on BOT 1201 and BOT 1202	Hands-on training of production of agro products.	Hands-on training of production of agro products.	Hands-on training of production of agro products.	Hands-on training of production of agro products.	PO 3: Social competence. CO4. Get knowledge of preparation of fungal products.
M. Sc. I Sem. I	BOT4 101	Plant Systematics I	Knowledge of Cryptogamic diversity.	Knowledge of Cryptogamic diversity.	Knowledge of Cryptogamic diversity.	Knowledge of Cryptogamic diversity.	PO1: Disciplinary Knowledge CO1. Get knowledge about cryptogams to conserve cryptogamic diversity.
	BOT4 102	Cell Biology	Structure of cell organelles	Structure of cell organelles	Structure of cell organelles	Structure of cell organelles	PO2: Critical Thinking





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			and their functions.	and their functions.	and their functions.	and their functions.	and Problem Solving. CO5. Understand current findings in cell biology.
	BOT4 103	Genetics and plant Breeding	Genetic inheritance and gene interactions in plants.	Genetic inheritance and gene interactions in plants.	Genetic inheritance and gene interactions in plants.	Genetic inheritance and gene interactions in plants.	PO1: Disciplinary Knowledge. CO1. Know applications of gene interactions.
	BOT4 104	Advanced Botanical techniques	Instrumentation useful in Botanical Techniques.	Instrumentation useful in Botanical Techniques.	Instrumentation useful in Botanical Techniques.	Instrumentation useful in Botanical Techniques.	PO1: Disciplinary Knowledge. CO1. Get acquainted in advanced botanical techniques.
	BOT4 105	Practicals based on BOT.	Cryptogamic habit and	Cryptogamic habit and	Cryptogamic habit and	Cryptogamic habit and	PO1: Disciplinary





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		4101 and BOT. 4102	habitat diversity.	habitat diversity.	habitat diversity.	habitat diversity.	Knowledge CO2. Train in cell biology techniques.
	BOT4 106	Practicals based on BOT. 4103 and BOT. 4104	Cytological and botanical techniques.	Cytological and botanical techniques.	Cytological and botanical techniques.	Cytological and botanical techniques.	PO5: Trans-disciplinary Knowledge. CO7. Interprets cell structure and their function.
M. Sc. I Sem. II	BOT4 201	Plant Systematics II	Awareness and need of conservation of Cryptogamic diversity.	Awareness and need of conservation of Cryptogamic diversity.	Awareness and need of conservation of Cryptogamic diversity.	Awareness and need of conservation of Cryptogamic diversity.	PO 8: Environment and Sustainability. CO6. Aware about plant conservation in society.





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BOT4 202	Plant Physiology and Biochemistry	Knowledge about structure and role of biomolecules in plants.	Knowledge about structure and role of biomolecules in plants.	Knowledge about structure and role of biomolecules in plants.	Knowledge about structure and role of biomolecules in plants.	PO 4: Research-related skills and Scientific temper. CO7. Students get knowledge of biomolecules.
BOT4 203	Molecular Biology and Genetic Engineering	Aware about methods required for r- DNA technology.	Aware about methods required for r- DNA technology.	Aware about methods required for r- DNA technology.	Aware about methods required for r- DNA technology.	PO 4: Research-related skills and Scientific temper. CO4. Acquaint the students with synthesis of nucleic acids and PCR technique.
BOT4 204	Plant Ecology and Biodiversity	Awareness on habit of plants with reference to its habitats and	Awareness on habit of plants with reference to its habitats and	Awareness on habit of plants with reference to its habitats and	Awareness on habit of plants with reference to its habitats and	PO1: Disciplinary Knowledge CO7. Knowledge





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			conservation of ecology.	conservation of ecology.	conservation of ecology.	conservation of ecology.	ge about habitat conservation of cryptogam's diversity.
	BOT4205	Practical on BOT 4201 and BOT4202	Skilled in physiological and biochemical techniques.	Skilled in physiological and biochemical techniques.	Skilled in physiological and biochemical techniques.	Skilled in physiological and biochemical techniques.	PO 7: Effective Citizenship and Ethics. CO1. Appreciate the ethical, cross-cultural and historical context of environmental issues and the links between human and natural systems.
	BOT4206	Practical on BOT 4203 and BOT 4204	Hands on training on molecular techniques and analysis	Hands on training on molecular techniques and analysis	Hands on training on molecular techniques and analysis	Hands on training on molecular techniques and analysis	PO 9: Self-directed and Life-long Learning.





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			of water and soil.	of water and soil.	of water and soil.	of water and soil.	CO6. Train in different isolation techniques in cell organelle.
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COMPUTER SCIENCE

Program me	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
			Local	National	Regional	Global	
B.Sc. (Computer Science) (UG)	CSCO1101	Basic Programming using C	Array declaration			Array declaration	1)PO1:Problem solving and programming capability
	CSCO1102	DBMS – I	Data models	Data models	Data models		2)CO1:Model an application's data requirements using conceptual modeling tools like ER model,





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CSCO1 201	Advanced Program ming using C	Nested structur es			Nested structur es		1)CO1:Stude nts successfully completing this course will be able to: Understand and design Programs through advanced C Concepts
CSCO1 202	DBMS – II	Relatio nal Data Model	Relatio nal Data Model	Relatio nal Data Model	Relatio nal Data Model		1)PO1:Under stand fundamental concepts of RDBMS (PL/PgSQL) 2)PO2:Under stand data security and its importance





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Programme	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
			Local	National	Regional	Global	
B.Sc. (Computer Science) (PG)	CS331	System Programming	Constant	Constant	Constant	Constant	-
	CS341	Operating System	System Model	System Model	System Model	System Model	-
	CS342	Compiler Construction	Error Handling	Error Handling	Error Handling	Error Handling	-
	CS343	Computer Network	Goals	Goals	Goals	Goals	-
	CS211	Data Structure Using C	Data Type	Data Type		Data Type	-
	CS212	RDBMS	Handling error	Handling error	Handling error	Handling error	-
	CS221	Object oriented Concept using C++	Memory allocation	Memory allocation			-





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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	Natio nal	Regio nal	Globa l	
M.Sc. (Com puter Scienc e) (PG)	COM P4101	Principles of Programming Languages	Local Referencing Environments				1) PO1: Use standard vocabulary when discussing languages 2)PO3: Understand basic language implementation techniques.
	COM P4102	Cryptography & Network Security	Introduction to Cyber Forensics	Introduction to Cyber Forensics	Introduction to Cyber Forensics	Introduction to Cyber Forensics	1) CO2: In future these experts will be an asset to this country for serving in the fields of information security and digital forensics.
	COM P4103	Database Technologies	Database System	Database System	Database System	Database System	1) PO2: Compare different database technologies. 2) PO3: Compare and contrast NoSQL databases with RDBMS.
	COM P4104	Design and Analysis of Algorithms	Algorithm	Algorithm	Algorithm	Algorithm	1)CO1: Learn a variety of useful algorithms Understand classification of problems
	COM P4106	Lab Course on DOT NET, PPL & Database Technologies	Querying documents in NoSQL	Querying documents in NoSQL	Querying documents in NoSQL	Querying documents in NoSQL	1)PO2: To prepare necessary knowledge base for development in Computer Science





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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.





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	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 environment science.
	EVS1103	Practical based on EVS1101 and EVS1102	Vegetation by Belt/Line method	-	-	-	CO1: Students will be expert to conclude the significance of biological experiments. PO1: aware the students about environmental conservation.





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F.Y.B.Sc (Sem-II)	EVS 1201	Fundamentals of Environmental Science-II	GIS and remote sensing	GIS and remote sensing	GIS and remote sensing	GIS and remote sensing	CO1: Understand the basics of Environmental Sciences. PO1: Students will be able to understand applications of GIS and remote sensing.
	EVS 1202	Fundamentals of Environmental Biology-II	Biodiversity and its conservation	Biodiversity and its conservation	Biodiversity and its conservation	Biodiversity and its conservation	CO1: Students will be able to understand to maintain life supporting systems and essential ecological processes. PO1: aware about conservation and sustainable use of Biodiversity.





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	EVS 1203	Practical based on EVS 1201 and EVS 1202	Environ mental issues, use of science and technolo gy	-	-	-	CO1: Students will experience about innovative methodolo gy to solve environme ntal problems.
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MATHEMATICS

Program me	Cou rse Cod e	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	MT 211	Multivariable Calculus I	Environmental science and resource management	National infrastructure and transportation planning	Economic policy and analysis	Global economic system and trade	-
B.Sc. (Mathematics) UG	MT 212 B	Laplace Transform and Fourier Series	Signal processing and communication system	Medical imaging and healthcare technology	Energy and power system	Climate modeling	-
B.Sc. (Mathematics) UG	MT 222 A	Multivariable Calculus I	Electrical engineering and power distribution	National defense and aerospace engineering	Natural resource management	Satellite communication and space exploration	-
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, Transport	Linear Programming Model, Transport	Linear Programming Model, Transport	Linear Programming Model, Transport	-





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			ation Model, Assignment Model	ation Model, Assignment Model	ation Model, Assignment Model	ation Model, Assignment Model	
B.Sc. (Mathematics) UG	MT 345	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	-
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	CO1: Student will be able to find the complete solution of a nonhomogeneous differential equations as a linear combinatio





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							<p>n of complementary function and a particular solution.</p> <p>CO2: Student will be able to understand the complete solution of a nonhomogeneous differential equation with constant coefficients by the method of undetermined coefficients.</p> <p>PO8: Environment and Sustainability: Understand the impact of the scientific solutions in societal and environment</p>
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							ntal contexts and demonstrate the knowledge of and need for sustainable development.
M.Sc. (Mathematics) PG	MA T 4204	Linear Algebra	Statistics and data analysis for local research	National economic planning	Environmental studies	Global supply chain management	CO1: matrix representation of vector spaces, properties of vector spaces and their applications in real world. PO1: Disciplinary Knowledge: Demonstrate comprehensive knowledge of the disciplines that form a part of a postgraduate programme. Execute





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							strong theoretical and practical understanding generated from the specific programme in the area of work.
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	<p>CO1: Solving of PDE and finding their applications.</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</p>





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							developme nt.
M.Sc. (Mathem atics) PG	MA T 5304	Graph Theory	Social network analysis	National security and defense planning	Cybersec urity and network security	Global transporta tion and logistics network	-
M.Sc. (Mathem atics) PG	MA T 5305	Applied Mathem atics I	Promotin g scientific inquiry in education	Contribut ion to space explorati on and technolog y	Regional observato ries and science centers	Contributi on to astrophysi cs and cosmolog y	-
M.Sc. (Mathem atics) PG	MA T 5403	Fourier Analysis	Signal processin g and communi cation system	National healthcar e and medical technolog y	Manufac turing and industrial processes	Global environm ental and climate studies	-
M.Sc. (Mathem atics) PG	MA T 5405	Applied Mathem atics II	Promotin g scientific inquiry in education	Contribut ion to space explorati on and technolog y	Regional observato ries and science centers	Contributi on to astrophysi cs and cosmolog y	-





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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.	MICRO1101	(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





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							practical understanding 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
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,			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





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			Colorimeter, pH Meter, Laminar air flow hood, Centrifuge				commonly used microbiology laboratory instruments PO1: Disciplinary Knowledge: Demonstrate comprehensive knowledge of the disciplines that form a part of a graduate programme. Execute theoretical and practical understanding generated from the specific graduate programme in the area of work.
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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.
F.Y.BSc.	MICRO 1202	(Theory) Basic Techniques in Microbiology				Unit 3 : Isolation and Preservation a) Isolation 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, including knowledge of their components PO1: Disciplin





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							ary Knowled ge: Demonst rate compreh ensive knowled ge of the disciplin es that form a part of a graduate program me. Execute strong theoretic al and practical understa nding generate d from the specific graduate program me in the area of work.
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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 microorganisms: 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 programme. Execute strong theoretic
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S.Y.BSc.	MB: 211	Bacterial Systematics and Physiology	Concept of species b. Chemotaxonomy c. Numerical taxonomy d. Genetic basis of taxonomy			Concept of species b. Chemotaxonomy c. Numerical taxonomy d. Genetic basis of taxonomy	-
	MB: 212	Industrial and Soil Microbiology	Strains of industrially important microorganisms: i. Desirable characteristics of industrial strain			Strains of industrially important microorganisms: i. Desirable characteristics of industrial strain	-
	MB: 221	(Sem I) Bacterial Genetics				a. RNA world and shift to DNA world with time 1 b. Discovery of transforming material	-





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						(hereditary material): Griffith's experiment	
	MB: 222	Air and Water Microbiology	Air flora i. Transient nature of air flora ii. Droplet, droplet nuclei, and aerosols			Air flora i. Transient nature of air flora ii. Droplet, droplet nuclei, and aerosols	-
	MB: 223	Practical Course based on MB:211, MB:212, MB:221, MB:222	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.	-
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	-
	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	-





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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 improvement: mutagens used for strain improvement; selection of different types of mutants e.g. mutants			Strain Improvement: Objective of strain improvement Methods for strain improvement: mutagens used 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			Dairy Development in India: Role of National Dairy Development Board (NDDB), National Dairy Research Institute (NDRI), Military dairy	-





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			farm, Indian Dairy Corporation (IDC), Dairy Co-operatives, Milk Grid, Operation Flood			farm, Indian Dairy Corporation (IDC), Dairy Co-operatives, Milk Grid, Operation Flood	
	MB 341	Medical Microbiology - II	Chemotherapy: Introduction to chemotherapy Desirable parameters of good chemotherapeutic agent (Selective toxicity, Bioavailability of Drug, MIC, MBC, LD-50 value, Routes of drug			Chemotherapy: Introduction to chemotherapy Desirable parameters of good 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 mechanisms: Passive transport - Diffusion, Osmosis,			Membrane transport mechanisms: Passive transport - Diffusion, Osmosis,	-





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			Facilitated transport Active transport - Active transport systems in bacteria			Facilitated transport Active transport - Active transport 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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	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 coefficient (by colorimetry/spectrophotometry)			Determination of absorption spectra and molar extinction coefficient (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	Microbiology Systematics and Diversity				UNIT 3: Exploration of Un-culturable bacteria Methods of extracting total bacterial DNA from a habitat and metagenome analysis. Approaches to identify Culture -NGS	CO:1 Students will be able to understand the principles and methods behind studying and identifying





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						(Next generation Sequence)	ng 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, function,





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							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. PO1: Disciplinary Knowledge: Demonstrate comprehensive knowledge of the disciplines that form a part of a





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							graduate program me. Execute strong theoretic al and practical understa nding generate d from the specific graduate program me in the area of work.
	MICRO 4105	Practical Course: Microbia l Systemat ics	1)Isolation of bacteria from natural samples. 2) Isolation of fungi from natural samples. 3)Isolation of extremophiles from natural samples.				CO:1 Enrich students' knowled ge and train them in the pure microbial sciences PO1: Disciplin ary Knowled ge: Demonst rate compreh ensive knowled ge of the disciplin





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							es that form a part of a graduate program me. Execute strong theoretic al and practical understa nding generate d from the specific graduate program me in the area of work.
	MICRO 4106	Practical Course: Cell biology and Biochem istry	Good laboratory practices and cell biology Good laboratory practices: Laboratory safety, hazard from chemicals, handling of chemicals, disposal of chemicals and cultures, recording of scientific experiments. Standardization				CO:1 Understa nd and apply ethical considera tions related to the use of biomolec ules in research and analysis PSO1. Post Graduate s should be able





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			of laboratory procedures • Calibration and validation instruments (pH meter, spectrophotometer). • preparing/designing SOP for the instrument				to demonstrate the acquisition of Comprehensive knowledge and coherent understanding of the separation and purification of Biomolecules 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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							understanding generated from the specific graduate programme in the 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





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	MICRO 4202	Instrume ntation	1)Chromatogra phy Gel filtration chromatograph y • Ion- exchange Chromatograph y • Affinity chromatograph y • Gas chromatograph y • High Performance Liquid Chromatograph y 2)Spectroscopy			Chromatograph y Gel filtration chromatograph y • Ion- exchange Chromatograph y • Affinity chromatograph y • Gas chromatograph y • High Performance Liquid Chromatograph y 2)Spectroscopy	CO:1 Gain a fundame ntal understa nding of the principle s of instrume ntation, including sensors, transduce rs, signal condition ing, and measure ment techniqu es PSO1. Post Graduate s should be able to demonstr ate the acquisiti on of Compreh ensive





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							knowledge and coherent understanding of the separation and purification of Biomolecules. 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 program
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							me in the area of work. 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 4203	Metabolism	Concept of anaerobic respiration • Concept of Assimilation			Concept of anaerobic respiration • Concept of Assimilation	CO:1 Students should demonstrate a





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			and Dissimilative metabolism			and Dissimilative metabolism	thorough understa nding of major metaboli c pathways , including glycolysi s, the citric acid cycle, oxidative phosphor ylation, photosyn thesis, and various biosynth etic pathways . PO1: Disciplin ary Knowled ge: Demonst rate compreh ensive knowled ge of the disciplin es that form a part of a graduate program
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	MICRO 4204	Evolution and Ecology	Concept of ecosystem Trophic structure of ecosystem Types of ecosystems				CO:1 Understand how the major principles of evolution and ecology and to determine the functioning of all life on earth.
	MICRO 4205	Practical Course: Biophysics & Virology				Qualitative and quantitative detection of bacteriophage • Animal virus titration by Hemagglutination	CO:1 Students will apply their knowledge regarding





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						on inhibition test	to qualitative and quantitative determination of bacteriophage in laboratory.
	MICRO 4206	Practical Course: Enzymology & Microbial Metabolism	Plant Growth Promoting Rhizobacteria				CO:1 Students will be able to Understand kinetics of enzymes CO:2 Students will learn to isolate Nitrogen fixers and detect secondary metabolites
(M.Sc. II Semester) III	MB-701	Immunology	Regulation of Immune response a. Negative regulation - Immunological tolerance, Mechanisms of tolerance induction			Regulation of Immune response a. Negative regulation - Immunological tolerance, Mechanisms of tolerance induction	-





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			(related experimentation using transgenic animals), T cell mediated suppression o			(related experimentation using transgenic animals), T cell mediated suppression o	
MB-702	-	Molecular Biology - I	Tools in molecular biology • Activity gel assay, ChIP,, Designing probe, Detection of DNA binding, DMS foot printing, DNA helicase assay, Epitope tagging, Sequence tagged sites, Filter binding assay,			Tools in molecular biology • Activity gel assay, ChIP,, Designing probe, Detection of DNA binding, DMS foot printing, DNA helicase assay, Epitope tagging, Sequence tagged sites, Filter binding assay,	-
MB-703:		Industrial wastewater treatment	Principles of Wastewater Treatment • The need for Wastewater Treatment • Measuring Pollution Load of wastewaters • Methods for estimating parameters used for determining treatment efficacy • Layout of			Principles of Wastewater Treatment • The need for Wastewater Treatment • Measuring Pollution Load of wastewaters • Methods for estimating parameters used for determining treatment efficacy • Layout of	-





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			typical wastewater treatment plants			typical wastewater treatment plants	
	MB-711:	Practical course based on Immunology, Pharmaceutical Microbiology and Environmental Microbiology	Antigen Antibody Interactions 1. Precipitation reactions of antigen-antibody: Immuno-electrophoresis			Antigen Antibody Interactions 1. Precipitation reactions of antigen-antibody: Immuno-electrophoresis	-
	MB-712:	Practical course based on Molecular Biology (I and II) and Microbial Technology	Molecular Biology - I 1. Plasmid DNA isolation and Characterization 2. Transformation			Molecular Biology - I 1. Plasmid DNA isolation and Characterization 2. Transformation	-
Semester IV	MB 801:	Pharmaceutical and Medical Microbiology	Drug Discovery and Development: Contributions and postulates of Paul Ehrlich Significance of terms - Lead compound, Lead optimization, Candidate			Drug Discovery and Development: Contributions and postulates of Paul Ehrlich Significance of terms - Lead compound, Lead optimization, Candidate	-





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			selection A. Drug Discovery:			selection A. Drug Discovery:	
	MB 802	MB 802: Molecular Biology II	Genomics • Gene sequencing, conserved genes, finding base sequences which form genes, many proteins from one gene, alternative gene expression: DNA imprinting and Epigenetics.			Genomics • Gene sequencing, conserved genes, finding base sequences which form genes, many proteins from one gene, alternative gene expression: DNA imprinting and Epigenetics.	-
	MB 803	Microbi al Technol ogy	Bioreactor design and operation a. Designing of bioreactors - D esign aspects CSTRs: The dimensional ratios of the outer shell, and the operational aspects such as working volume, baffles and impellers.			Bioreactor design and operation a. Designing of bioreactors - D esign aspects CSTRs: The dimensional ratios of the outer shell, and the operational aspects such as working volume, baffles and impellers.	-





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STATISTICS

Progr amme	Cour se 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. Statist ics, UG	STA T120 1	Descripti ve Statistics – II	Demogr aphy, Life Table	Demogra phy, Life Table	Demogra phy, Life Table	Demography , Life Table	CO1: Applicatio ns of demograph y and life table in the field of insurance, Actuarial Science, governmen t etc. PO1: Disciplinar y Knowledge : Demonstrat e comprehen sive knowledge of the disciplines that form a part of a graduate programme . Execute





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							strong theoretical and practical understanding generated from the specific graduate programme in the area of work.
B.Sc. Statistics, UG	ST 211	DISCRETE PROBABILITY DISTRIBUTIONS, TIME SERIES AND R SOFTWARE	Time Series	Time Series	Time Series	Time Series	
B.Sc. Statistics, UG	ST 221	STATISTICAL METHODS AND USE OF R-SOFTWARE	Regression, SPC and Queuing Model	Regression, SPC and Queuing Model	Regression, SPC and Queuing Model	Regression, SPC and Queuing Model	





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B.Sc. Statistics, UG	ST 222	SAMPLING DISTRIBUTIONS AND INFERENCE	Testing of Hypothesis	Testing of Hypothesis	Testing of Hypothesis	Testing of Hypothesis	
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	
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	





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B.Sc. Statistics, UG	ST 343	Statistical Quality Control and Reliability	Statistical Quality Control and Reliability	Statistical Quality Control and Reliability	Statistical Quality Control and Reliability	Statistical Quality Control and Reliability	
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	
M.Sc. Statistics, PG	STAT-4104	Sampling Theory	Various sampling Techniques, and population	Various sampling Techniques, and population	Various sampling Techniques, and population	Various sampling Techniques, and population	CO1: Identify and recognize the appropriate sampling





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			on paramet er estimat ion	paramete r estimatio n	paramete r estimatio n	parameter estimation	Techniques in various situations. PO1: Disciplinar y Knowledge : Demonstrat e comprehen sive knowledge of the discipline that forms a part of a postgraduat e programme . Execute strong theoretical and practical understandi ng generated from the specific programme in
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							the area of work.
M.Sc. Statistics, PG	STAT-4203	Multivariate Analysis	PCA, Cluster Analysis, Discriminant Analysis, Canonical Correlation	PCA, Cluster Analysis, Discriminant Analysis, Canonical Correlation, Factor Analysis	PCA, Cluster Analysis, Discriminant Analysis, Canonical Correlation	PCA, Cluster Analysis, Discriminant Analysis, Canonical Correlation	CO1: Apply suitable tools for exploratory data analysis, dimension reduction, and classification to formulate and solve real-life problems
M.Sc. Statistics, PG	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	Various regression models and model adequacy, Multicollinearity	CO1: Able to apply various regression models in real life problems. PO1: Trans-disciplinary knowledge:





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							Create new conceptual, theoretical and methodological understanding that integrates and transcends beyond discipline-specific approaches to address a common problem.
M.Sc. Statistics, PG	ST-32	Design and Analysis of Experiments	Various experimental design, RSM, CCD, Box-Behnken design	Various experimental design, RSM, CCD, Box-Behnken design	Various experimental design, RSM, CCD, Box-Behnken design	Various experimental design, RSM, CCD, Box-Behnken design	
M.Sc. Statistics, PG	ST-42	Time Series Analysis	ARMA, ARIMA, SARIMA, ARCH and GARCH	ARMA, ARIMA, SARIMA, ARCH and GARCH	ARMA, ARIMA, SARIMA, ARCH and GARCH	ARMA, ARIMA, SARIMA, ARCH and GARCH	





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			GARCH				
M.Sc. Statistics, PG	ST(E)-36	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	
M.Sc. Statistics, PG	ST-32	Design and Analysis of	Clinical Trials, Meta-analysis	Clinical Trials, Meta-analysis	Clinical Trials, Meta-analysis	Clinical Trials, Meta-analysis	
M.Sc. Statistics, PG	ST-34	Statistical Process Control	Various Control Charts	Various Control Charts	Various Control Charts	Various Control Charts	
M.Sc. Statistics, PG	ST-44	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	
M.Sc. Statistics, PG	ST-46	Project	Use of Statistical Tools in real life	Use of statistical Tools in	Use of statistical Tools in	Use of statistical Tools in real	





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			situation s	real life situations	real life situations	life situations	
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COMPUTER 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	
M.Sc. (Computer Science) (PG)	COMP4201	Digital Image Processing	X-Ray Imaging	X-Ray Imaging	X-Ray Imaging	X-Ray Imaging	1) CO1: Review the fundamental concepts of a digital image processing system.
	COMP4202	Data Mining and Data Warehousing	Data Warehouse	Data Warehouse	Data Warehouse	Data Warehouse	2)PO2:Understand data mining principles and techniques: Understanding the basic concepts of OLAP
	COMP4203	Python Programming	Mail and Scheduler	Mail and Scheduler	Mail and Scheduler	Mail and Scheduler	1) CO1: Students will understand all the important and beneficial concepts of Python Programming
	COMP4204	Advanced Operating System	Directories	Directories	Directories	Directories	1) CO1:It also provides an insight into functional modules of Operating Systems.





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	COMP4 207	Artificial Intelligen ce	Predicat e Logic		Predicat e Logic		1) CO1: Concepts of Data structures and Design and Analysis of algorithms.
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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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	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.
	ZY-212	Applied Zoology-I	Employability and Entrepreneurship	Employability and Entrepreneurship	Employability and Entrepreneurship	Employability and Entrepreneurship	-
	ZY-222	Applied Zoology-II	Employability and Entrepreneurship	Employability and Entrepreneurship	Employability and Entrepreneurship	Employability and Entrepreneurship	-
	ZY-334	Environmental Biology & Toxicology	Environmental Pollution Wildlife Management	Environmental Pollution Wildlife Management	Environmental Pollution Wildlife Management	Environmental Pollution Wildlife Management	-





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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 related skills and scientific temper CO7. Write effective research proposals that secure funding.
	ZY 302 T	Environmental Biology	Wildlife management and conservation	Wildlife management and conservation	Wildlife management and conservation	Wildlife management and conservation	-
	ZY 402 T	Economic Zoology	Vermiculture industry	Prawn culture, Pearl Culture	Fisheries and Dairy Science	Piggery industry	-
	ZY 405 T	Pollution Biology	Environmental Pollution	Environmental Pollution	Environmental Pollution	Environmental Pollution	-
	ZY 406 T	Apiculture	Apiculture	Apiculture	Apiculture	Apiculture	-





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DAIRY 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. Dairy Technology (UBDT)	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





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						to 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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							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





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						and 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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						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 laboratory





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							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 Microbiology				Different methods of microbial analysis	CO1: They will study about the preparation of media, culture, identify micro organisms CO2: They will learn





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							different methods of microbial analysis. PO1:They will know basic microbiology laboratory practices and equipment
	BDT - 302	Dairy Equipments		Study of dairy processing equipment			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 - 303	Fermented Milk Products		Concept of fermentation, study of different fermented			CO1:They will understand technology behind preparation





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				milk products			of fermented milk products PO1: They will learn about fermentation and range of products made from fermentation
	BDT – 3.1	Dairy Microbiology				Different methods of microbial analysis	CO1: They will study about the preparation of media, culture, identify micro organisms CO2: They will learn different methods of microbial analysis. PO1: They will know basic microbiology laboratory practices and equipment
	BDT – 3.2	Dairy Equipments				Study of milk tankers, cream separator,	CO1: They will know about maintenance of





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					homogenizer, and other dairy equipments	Equipments and understand the design and working of the equipments PO1: They will learn about Design, working and maintenance of Equipments .
	BDT – 3.3	Fermented Milk Products		Concept of fermentation, study of different fermented milk products		CO1: learn basics of fermentations, starter cultures, and Fermentor and To learn making process of various fermented products PO1: They will learn about fermentation and range of products made from fermentation





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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	Human Nutrition				Role of nutrients, balance diet, BMR	CO1: They will understand nutrients and food component that supply nourishment to the body and know about the functions, deficiency and toxicity of nutrients PO1: They will be able to learn about nutrients and role of nutrients in human body
BDT - 403	Traditional Indian Dairy Products		Study of making process of			CO1: They will learn the making





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				different indigenous milk products			process of different indigenous milk products PO1: They will know importance of indigenous milk product and its market demand
	BDT – 4.1	Dairy Engineering				Study of different utilities in dairy industry like refrigerator, cold storage, etc	CO1: They will learn about refrigeration unit in dairy industries. PO1: They will study the different utilities used in dairy plant
	BDT – 4.2	Human Nutrition				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,





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							deficiency and toxicity of nutrients PO1: They will be able to learn about nutrients and role of nutrients in human body
	BDT - 4.3	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 - 501	Quality Assurance and Waste Management				o	CO1: They will understand the importance of quality in food production and will learn various methods of





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						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.
BDT - 503	Dairy Technology				Manufacturing process of condensed milk, SMP, WMP, Ice-cream and other dairy products.	CO1: They will understand difference between ice-cream and frozen dairy desert. CO2: They will understand production of dried milk product.





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						PO1: They will learn basics of different types of milk and milk products.
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 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 rich milk products. PO1: They will understand the range of products





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							made from milk fat
BDT - 5.3	Dairy Technology					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. PO1: They will learn about development and preparation of different types of milks.
BDT - 601	Entrepreneurship Development			Entrepreneurship and Market Survey and Opportunity Identification			CO1: They will understand the concept of entrepreneurship and learn key skills for being a successful entrepreneur PO1: They will learn





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						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	Food Laws and Regulations				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





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							Food safety, hygiene and sanitation
	BDT - 604	In - Plant Training		Study of different types of milks and its processing			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.





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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	<p>CO1: Students will have a thorough understanding of various food processing techniques. The students will know the importance of various preservation techniques.</p> <p>PO1: Understand the basic concepts, fundamental principles and experimental findings and the scientific theories related to food technology, food science and Food technology & engineering and its other fields related to the program.</p> <p>PO6: Operate modern tools, equipment, instruments and laboratory techniques to perform the experiments and write the programs in different languages.</p>
	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</p>





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						<p>knowledge so as to comprehend, design, and create food products and devices for the food industry and provide solutions for the challenges in the food industry as well as in agriculture.</p> <p>PO1:-Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific theories related to food technology, food science and Food technology & engineering and its other fields related to the program.</p> <p>CO2: Provide nutrition counselling and education to individuals, groups, and communities throughout the lifespan using a variety of communication strategies.</p> <p>PO12: Lifelong Learning: - Propose novel ideas in explaining the scientific data, facts and figures related to Science and technology.</p> <p>CO3: Evaluate nutrition information based on scientific reasoning for clinical, community, and food service application.</p> <p>PO4: Analytical Reasoning and Problem Solving- To enable the students with good scientific and engineering</p>
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							knowledge so as to comprehend, design, and create food products and devices for the food industry and provide solutions for the challenges in the food industry as well as in agriculture.
	FP-7	Processing of Fruits, Vegetables and Plantation Crops	Drying, utilization of Fruit and Vegetable waste	Quality Control in Food Processing Industry,	utilization of Fruit and Vegetable waste	Osmotic dehydration, canning, freezing	<p>CO1: Students will have a thorough understanding of various food processing techniques.</p> <p>PO8: Application of Knowledge: - Develop a scientific outlook and apply the knowledge with respect to food technology.</p> <p>CO2: The students will know the importance of various preservation techniques.</p> <p>PO1: Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific theories related to food technology, food science and Food technology & engineering and its other fields related to the program.</p>
	FP-10	Processing of Cereals, Pulses and Oilseeds	Milling of cereal & pulses, Extraction of oil and	-	Milling of cereal & pulses, Extraction of oil and	Processing of hot serve cereals and ready-to-eat breakfast cereals, Flakes, shreds, granules, puffed cereals,	<p>CO1: Students will have a thorough understanding the unit operations followed for raw form to an edible form of cereals and legumes.</p> <p>PO8: Application of Knowledge: - Develop a scientific outlook and apply the knowledge with respect to food technology</p> <p>CO2: The students will know</p>





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			refini ng		refini ng	sugar coated products, popped and puffed snacks	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.
	FP - 12	Bake ry and Conf ectio nery Tech nolog y	-	-	-	preparation methods of bread, cake, biscuits, cookies, pastry, buns, crackers, types of quick bread, chocolate manufacture	CO1: Students will have a thorough understanding the processing and preservation of appetizers. PO1: Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific the ories related to food technology, food science and Food technology & engineering and its other fields related to the program. CO2: Students will have a thorough understanding on effect of blending and baking on final product of bakery. PO6: Use of Modern Tools:- Operatemoderntools,equipm ent,instrumentsandlaboratory techniquesto perform the experiments and write the programs in different languages. CO3: The students will know the various extruded product development. PO7: Research Skills:- Understand how to design, collect, analyze, interpret and





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





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											<p>CO3: Explain the dairy processing technologies.</p> <p>PO1: Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific theories related to food technology, food science and Food technology & engineering and its other fields related to the program.</p> <p>CO4: Apply methods of analysis for dairy products and relate differences in composition and structure to differences in manufacturing processes.</p> <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</p>
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							and evaluate information/data that is relevant to food technology.
	FP - 14	Food Quality, Laws and Regulations	Quality control laboratories of companies, Quality control laboratories of Consumer cooperatives, Private testing laboratories, Consumer Guidance	Essential Commodities Act, Standards of Weights and Measures, Export (Quality control and Inspection) Act, Bureau of Indian Standards Act, Agmark Grading and Marketing Act	Quality control laboratories of companies, Quality control laboratories of Consumer cooperatives, Private testing laboratories, Consumer Guidance	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(On completion of the course, students will be able to: CO1: Be able to critically evaluate the recent developments in the control of food safety. PO3: Critical Thinking :- Propose novel ideas in explaining the scientific data, facts and figures related to Science and technology. CO2: Have an integrated view of the issues involved. PO5: Sense of Inquiry:- Curiously ask relevant questions for better understanding of fundamental concepts and principles, scientific theories and applications related to the study. CO3: Be able to conduct risk assessments of food safety problems including genetic modification. PO11: Environment and Sustainability:- Develop





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			Society and Rules Nutritional Labelling & Education act, Municipal Laboratories , Food and Drug Administration, The central Food Testing Laboratory, Export Inspection Council Laboratory	Society (BRC) standard for Foods.	<p>various communication skills such as reading, listening and speaking skills to express ideas and views clearly and effectively.</p> <p>CO4: Demonstrate detailed knowledge of the requirements for compliance with national and international food safety legislation.</p> <p>PO11: Environment and Sustainability:- Develop various communication skills such as reading, listening and speaking skills to express ideas and views clearly and effectively.</p> <p>CO5: Know how to control and maintain a quality management system.</p> <p>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.</p>
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FP - 15	Principles of Post Harvests 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</p>
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						<p>agriculture.</p> <p>CO3: Understand utilization of the produce and methods for shelf life extension.</p> <p>PO6: Use of Modern Tools:- Operatemoderntools,equipm ent,instrumentsandlaboratory techniquesto 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 out look and apply the knowledge with respect to food technology.</p> <p>CO5: Learn quality control and various standards required for domestic and export market.</p> <p>PO1: Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific the ories related to food technology, food science and</p>
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							Food technology & engineering and its other fields related to the program.
	FP - 17	Food Safety, Hygiene and Sanitation	Types of hazards, Control methods using physical and chemical agents, Waste Disposal, Pest and Rodent Control, Personnel Hygiene, Food Safety	SOPs, HACCP, ISO series, TQM, Product labelling and Nutritional labelling	Types of hazards, Control methods using physical and chemical agents, Waste Disposal, Pest and Rodent Control, Personnel Hygiene, Food Safety	GHPs, GMPs, SOPs, HACCP, ISO series, TQM, Product labelling and Nutritional labelling	<p>On completion of the course, students will be able to:</p> <p>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>





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			y Meas ures		y Meas ures		<p>PO8: Application of Knowledge:- Develop a scientific out look and apply the knowledge with respect to food technology.</p> <p>CO4: Recognize the principal legal responsibilities of food 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>
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							<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>
	FP - 18	Packaging Technology	-	-	-	<p>Vacuum, CA and MA packaging systems, gas packaging machine; seal and shrink packaging machine; form and fill sealing machine; aseptic packaging systems; bottling machines; carton making machines</p>	<p>On completion of the course, students will be able to:</p> <p>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</p>





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							and evaluate information/data that is relevant to food technology.
							<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> <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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Progra mme	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
			Local	Nation al	Regional	Global	
M.Voc. Food Processi ng Technol ogy (PG)	FPT-201	Beverages and Snack Food Technolog y	Packaged drinking water Processin g, roasted, toasted, puffed, popped and flakes Coated grains- salted, spiced and sweetene d Flour based snack- batter and dough based products; savoury and farsans; formulat ed chips and wafers, papads.	FSSAI specific ations for bevera ges	Packaged drinking water Processin g, roasted, toasted, puffed, popped and flakes Coated grains- salted, spiced and sweetene d Flour based snack- batter and dough based products; savoury and farsans; formulat ed chips and wafers, papads.	FSSAI specifications for beverages, Technology for fruit and vegetable based snacks, Technology for coated nuts, technology for RTE puffed snack	After learning this subject CO1: Students will be able to know different types of beverages found in Indian as well as international market. PO1:- Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific the ories related to food technology, food science and Food technology & engineering and its other fields related to the program. CO2: Students will have better ideas regarding alcoholic and non-alcoholic Beverages with water industry. PO3- Critical Thinking :-





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							<p>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> <p>CO4: Students will get brief knowledge of fruits and vegetables based snacks.</p> <p>PO8- Application of Knowledge:- Develop a</p>
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							scientific outlook and apply the knowledge with respect to food technology.
	FPT-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.
	FPT-203	Advances Food Processing and Packaging	Biodegradable plastics, Edible	-	Biodegradable plastics, Edible	Classification of Thermal Processes, freezing, Active	CO1: Students will be able to understand major food preservation and





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			gums, Coatings		gums, Coatings	packaging, Modified atmospheric packaging, Aseptic packaging, Gas packaging machine, Seal and shrink packaging machine. Form and fill sealing machine, Vacuum packaging machine, Retort pouches, Bottling machines, Package printing machines, Ionizing radiation	Packaging techniques and underlying principles. PO1:- Disciplinary Knowledge - Understand the basic concepts, fundamental principles and experimental findings and the scientific the ories related to food technology, food science and Food technology & engineering and its other fields related to the program. CO2: Students will be able to determine suitable methods of processing and Packaging techniques for a chosen food. PO7- Research Skills:- Understand how to design, collect, analyze, interpret and evaluate information/data that is relevant to food technology. CO3: Students will be able to
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							<p>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</p>
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							fields related to the program. CO5: Students will be able to understand major packaging material and methods used in food packaging. 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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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	JM 101	Introduction to Mass Communication				Process of Communication	PSO3 CO1,2,3,4,5
	JM 102	UBJM112 Introduction to Journalism		Legal and ethical Framework			PSO3 CO3,4,5,6,7
	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		PSO1 CO1,2,3,4,5,6
	JM 104	Language skills-Marathi	-	-	-	-	CO1,2, 3
	JM 105	Computer Application for Media	MS-WORD	Web development: HTML and	Introduction to Photoshop		CO1,2,3,4,5





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				Scripting language			
	JM 106	Basics of photography		Composition	Camera modes , Camera controls		PSO8 CO1,2, 3,4,5
	JM2 01	News reporting and Editing-I	News Reporting and News Beats	Working on News Desks 2	Basics of News Writing, Editing		PSO3 CO1,2, 3,4,5,6
	JM2 02	Writing for Media-I	Story Writing	Practice Writing	Various Types of Online Media Writing		PO8 CO1,2, 3,4,5,6,7
	JM2 03	India after independence	-	-	-	-	CO1,2, 3
	JM 204	Language skills-English	Grammar Usage, Interview and Group discussion		Personal ity development	Writing and comprehension skills	PO 1, CO1,2, 3,4,5
	JM 205	Feature Writing	Computer typing techniques	Writing across media	Human interest stories		PO2, CO1,2, 3,4,5,6
	JM 206	Content Production on Mobile	Creation of short Videos		Types of Content		PO8 CO1,2, 3
	JM 301	News Reporting and Editing-II	Layout Design and Photojournalism		Reporting , Interviewing, Creative Editing		PO5 CO1,2, 3,4,5





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	JM 302	Writing for Media-II	Creative Content Creation		Writing for Non-Fiction Genres		PO5 CO1,2, 3
	JM 303	Introduction to Radio		Radio News, Production technology	Radio News, Production technology		PO8 CO1,2, 3,4,5,6,7
	JM 304	Reporting and Editing Skills	Specialized Writing, Layout and design	Photography	Writing across media		PO8 CO1,2, 3,4,5,6,7
	JM 305	Radio Production	Radio Program production		Advertisement		PO5 CO1,2, 3,4,5,
	JM 306	Experimental Journal	produce a four-page newspaper		Design and layout		PO5 CO1,2, 3,4,5
	JM 401	Introduction to Television	News Gathering		Television Programming		PO5 CO1,2, 3
	JM 402	India After Independence		Popular Movements, Eve of new millennium			PO3 CO1,2, 3,4,5,6
	JM 403	Introductions to Economics		Introduction to Indian Economy	Contemporary Economic Issues in State of Maharashtra	International Trade and its impact	PO1,PSO,2 CO1,2, 3,4,5,6,7





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	JM 404	Television Production	News Anchoring	News Production- Packaging and production	News Gathering and writing		CO1,2,3,4,5
	JM 405	Film Appreciation	Other Film Institutions		World and Indian Cinema		PO1,PSO4, CO1,2, 3,
	JM 406	Basics of Video production	Camera Exercise, Editing, Camera Techniques				CO1,2,3,4,5,,6
	JM 501	Introduction to Digital Media		Social Media, New Media Theories	Digital storytelling		PO3, PSO6 CO1,2,3,4,5,6,7
	JM 502	Introduction to Media Research	Data Analysis	Qualitative research methods, Quantitative research methods			PO5, PSO4 CO1,2,3,4
	JM 503	Mass Communication Theory	Personal Influence and Sociological Theory	Normative Theories of Mass Communication	Mass Media and Culture	Mass Communication Theories	CO1,2,3,4
	JM 504	Content Development For Digital Media	Writing for Digital Media		Fake News and facts checking	Twitter and Instagram , YouTube	CO1,2,3,4
	JM 505	Video Production	Screenplay writing,				CO1,2,3





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		n Group Project	Script writing, Production Work				
	JM 506	Industry Internship			Internship		CO1,2,3
	JM 601	Basics of Advertising		Theories and Models of Advertising	Understanding Brands, Working of Advertising Agency		CO1,2,3
	JM 602	Basics of Public Relations	PR during crisis		Use of Social Media in PR		PO3,PSO 2 CO1,2,3,4, 5,6,7
	JM 603	Media Management	Marketing strategies		Finance and HR Management		PO5, PSO7 CO1,2,3,4, 5
	JM 604	Advertising Practices	Creation of Advertisement	Online platforms for advertisements	Advertising Campaign design		PO4, PSO 6 CO1,2,3,6, 7
	JM 605	Dissertation/In-depth reporting (IDR)	RESEARCH PROJECT				PO6 PSO6,CO1 ,2,3,6,7
	JM 606	Internship			Internship		CO1,2,3,4, 5





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Programe	Course Code	Course Title	Topic in the syllabus which has relevance to the developmental needs				POs, PSO's & COs
			Local	National	Regional	Global	
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 TECHNIQU ES-I	Basic operation s 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 COMMUNI CATION	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 Audience s	Media Structure and Institutio n, 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 compreh ension 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	Composit ion, 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 Modulati on		Types of Anchoring :		PO- 1,2,3,6, 7 PSO- 1,2,3,4, 5,6 CO1,2, 3,4,5,6, 7

