



SOURASHTRA COLLEGE (Autonomous), MADURAI – 4

(A Linguistic Minority Co-educational Institution)
(Affiliated to Madurai Kamaraj University & Re-Accredited with 'B+' Grade by NAAC)
Vilachery Main Road, Pasumalai (P.O), Madurai-625004.

Contact No.: 87542 09994

87542 08885

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✉ soucollege@gmail.com

ANNUAL QUALITY ASSURANCE REPORT 2023 – 2024

UNDERGRADUATE (UG) PROGRAMME (AIDED)

Course Code	Name of the Course	CO	CO Statement	Knowledge level (According to Blooms taxonomy)
B.A. ENGLISH				
21UEHC11	BRITISH LITERATURE – I	CO 1	comprehend the development of trends of British Literature through ages	K1
		CO 2	understand the socio political and religious contexts of the time	K2
		CO 3	be familiar with literary personalities and their literary works	K1, K2
		CO 4	understand didactic human values as virtually mirrored in British writers' works	K2
		CO 5	improve language skills by reading the prescribed texts	K3
21UEHC12	INDIAN WRITING IN ENGLISH	CO 1	acquaint the major Indian writers in English	K1
		CO 2	comprehend the challenges in the contemporary society	K2
		CO 3	become familiar with the Indian English	K1
		CO 4	determine the writer's purpose and perspective	K2
		CO 5	get an awareness on the 'Indian-ness' through the representative works	K2



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Course Code	Name of the Course	CO	CO Statement	Knowledge level (According to Blooms taxonomy)
21UEHA11	SOCIAL HISTORY OF ENGLAND	CO 1	get a comprehensive view of the facts and figures of English Society from the Age of Renaissance to modernity.	K1
		CO 2	comprehend the main social issues, historical terms and cultural concepts.	K2
		CO 3	discuss the reform and development of Education in modern era.	K4
		CO 4	develop an ability to read text in relation to their historical and cultural text.	K4
		CO 5	interpret literary works in a better prospective.	K2
21UEHSP1	COMMUNICATIVE ENGLISH (LAB)	CO 1	improve their listening and reading skills	K1
		CO 2	review the speeches of great personalities	K5
		CO 3	use suitable phrases for communication	K2
		CO 4	express thoughts in simple English	K3
		CO 5	build stories based on their creativity	K6
21UEHC21	BRITISH LITERATURE – II	CO 1	comprehend the development of trends of British Literature through ages	K1
		CO 2	understand the socio political and religious contexts of the time	K2
		CO 3	be familiar with literary personalities and	K1, K2



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			their literary works	
		CO 4	understand didactic human values as virtually mirrored in British writers' works	K2
		CO 5	improve language skills by reading the prescribed texts	K3
21UEHC22	ENGLISH GRAMMAR AND USAGE	CO 1	acquire language competence	K1
		CO 2	construct grammatically correct sentences	K6
		CO 3	apply grammar as a tool in creation of oral and written discourse efficiently, effectively and appropriately.	K3
		CO 4	employ grammar in day to day communication effectively	K3
		CO 5	transfer writing skills to other domains of one's life and work	K6
21UEHA21	HISTORY OF ENGLISH LITERATURE	CO 1	explain major writers and their significant works in chronological order	K2
		CO 2	identify the salient features of each Age	K1
		CO 3	interconnect the history, biography of the author and the works	K3, K4
		CO 4	analyse how the social, political and religious history of England influences the English writers through the Ages	K4



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		CO 5	evaluate the literary movements and their impact on the literary works	K5
21UEHS21	COMPUTER FOR BEGINNERS	CO 1	understand the basic knowledge of Computer and internet	K2
		CO 2	learn effective usage of Computer	K2
		CO 3	become familiar with technological developments in computer	K3
		CO 4	acquire the technical skills of computer and internet	K3
		CO 5	seek job opportunities in the related fields	K3
21UEHC31	LITERARY FORMS AND TERMS	CO 1	become familiarize with key concepts of literary forms and terms.	Upto K3
		CO 2	get an awareness of the basic features and functions of the concept.	Upto K3
		CO 3	write in different genres.	Upto K3
		CO 4	recognize the merits and limitations of a literary work.	Upto K3
		CO 5	read and analyze a variety of texts critically	Upto K3
21UEHC32	CHILDREN'S LITERATURE	CO 1	understand the theories and concepts of children's literature	Upto K3
		CO 2	engage with children's literature	Upto K3



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			academically	
		CO 3	appreciate and enjoy children's literature	Upto K3
		CO 4	interact with childhood and youth culture	Upto K3
		CO 5	explore the relationship between creative writing and critical awareness of children's literature	Upto K3
21UEHA31	MEDIA STUDIES	CO 1	comprehend the history of Journalism and Mass Communication	Upto K3
		CO 2	know the traits and operations of Radio Broadcasting.	Upto K3
		CO 3	acquire knowledge of Television Broadcasting and its genres	Upto K3
		CO 4	develop an awareness of the basic features and functions of the Digital and Social Media	Upto K3
		CO 5	know the importance of advertising and its ethics	Upto K3
21UEHS31	ENGLISH FOR SPECIFIC PURPOSES	CO 1	become familiar with mechanics of writing	Upto K3
		CO 2	develop thinking ability and reading strategies	Upto K3
		CO 3	develop communication and writing skills	Upto K3
		CO 4	develop a planned approach towards their	Upto K3



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			career	
		CO 5	write academically	Upto K3
21UEHN31	ENGLISH FOR EMPLOYABILITY– I	CO 1	become familiar with key concepts of use of vocabulary	Upto K3
		CO 2	develop thinking ability and polish their expression in group discussions	Upto K3
		CO 3	develop communication and writing skills	Upto K3
		CO 4	develop a planned approach towards their career	Upto K3
		CO 5	work efficiently in teams	Upto K3
21UEHC41	CANADIAN LITERATURE	CO 1	receive knowledge on different literatures and cultures across the world.	Upto K3
		CO 2	develop awareness of the basic features and functions of the concept.	Upto K3
		CO 3	write in different genres.	Upto K3
		CO 4	address the themes and debates that has shaped changing culture and nature globally.	Upto K3
		CO 5	strengthen the critical and literary skills and enrich their understanding skills	Upto K3
21UEHC42	INDIAN DIASPORIC LITERATURE	CO 1	assess the postcolonial themes of Diasporic literature with reference to geography.	Upto K3
		CO 2	examine the factors determine the writing	Upto K3



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			and reception of literature.	
		CO 3	examine the changing historical, political, socioeconomic, and cultural contexts	Upto K3
		CO 4	appraise the complex and fragmented history in the reformulation of cultural.	Upto K3
		CO 5	to understand and analyse different cultures	Upto K3
21UEHA41	PUBLIC SPEAKING	CO 1	acquire the correct use of English in formal way	Upto K3
		CO 2	improve vocabulary	Upto K3
		CO 3	develop communication skills, to overcome fear and confidence	Upto K3
		CO 4	communicate in a professional way	Upto K3
		CO 5	get proper pronunciation	Upto K3
21UEHS41	ENGLISH FOR COMPETITIVE EXAMINATIONS	CO 1	use English in formal way	Upto K3
		CO 2	improve vocabulary	Upto K3
		CO 3	develop communication skills	Upto K3
		CO 4	write effectively in a professional way	Upto K3
		CO 5	develop reading skills and will be able to comprehend the passages	Upto K3
21UEHN41	ENGLISH FOR	CO 1	become familiar with key concepts of use of	Upto K3



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	EMPLOYABILITY – II		grammar.	
		CO 2	develop communicative skills	Upto K3
		CO 3	develop writing skills	Upto K3
		CO 4	understand life skills	Upto K3
		CO 5	face interview and participate in group discussion	Upto K3
21UEHC51	POSTCOLONIAL LITERATURE	CO 1	become familiar with the literary concepts of post colonialism	Upto K3
		CO 2	analyse the contributions of the prose writers of colonized countries	Upto K3
		CO 3	understand the narrative forms of diverse cultures through short stories	Upto K3
		CO 4	compare and contrast indigenous literature and culture	Upto K3
		CO 5	examine the issues in post-colonial fiction	Upto K3
21UEHC52	SHAKESPEARE	CO 1	understand the nature of theatres and audience of the Elizabethan age	Upto K3
		CO 2	appreciate Shakespearean comedy	Upto K3
		CO 3	appreciate Shakespearean Tragedy	Upto K3
		CO 4	identify and explore the dialects of Shakespearean play	Upto K3
		CO 5	understand and identify the elements of	Upto K3



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			Shakespearean play	
21UEHC53	INTRODUCTION TO LITERARY CRITICISM	CO 1	understand the classical period of literary criticism	Upto K3
		CO 2	demonstrate an understanding of Neo-Classicalists	Upto K3
		CO 3	analyse and appreciate different perspectives of Romantic and Victorian critics	Upto K3
		CO 4	comprehend Twentieth Century criticism	Upto K3
		CO 5	demonstrate the emergence of various approaches	Upto K3
21UEHC54	ENGLISH LANGUAGE TEACHING	CO 1	become familiar with the learning and teaching concepts	Upto K3
		CO 2	understand basic methods and approaches	Upto K3
		CO 3	understand the use of technology and ICT tools	Upto K3
		CO 4	understand the principles of teaching prose, poetry	Upto K3
		CO 5	develop You Tube, blogs	Upto K3
21UEHE51	FUNDAMENTALS OF ACADEMIC WRITING	CO 1	develop and sharpen their academic and professional writing skills	Upto K3
		CO 2	enhance reading, reasoning and research skills	Upto K3



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		CO 3	develop vocabulary	Upto K3
		CO 4	develop grammatical patterns	Upto K3
		CO 5	build their LSRW skills	Upto K3
21UEHE52	TECHNICAL WRITING	CO 1	explore technical process through writing.	Upto K3
		CO 2	learn about different genre and techniques.	Upto K3
		CO 3	have refined vocabulary skill.	Upto K3
		CO 4	understand the importance of technical writing and channelize their skills.	Upto K3
		CO 5	develop their writing skill.	Upto K3
21UEHE53	CREATIVE WRITING	CO 1	determine their goal as a writer.	Upto K3
		CO 2	explore their creativity.	Upto K3
		CO 3	learn about different genre and technique.	Upto K3
		CO 4	acquire refined vocabulary skill	Upto K3
		CO 5	reinforce their creative ideas into writing.	Upto K3
21UEHS51	TRANSLATION STUDIES: THEORY AND PRACTICE	CO 1	understand the theory and practice of translation	Upto K3
		CO 2	become familiar with the history of translation	Upto K3
		CO 3	acquire clarity regarding problems of translation	Upto K3



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		CO 4	understand Classics from ancient and new Tamil literatures	Upto K3
		CO 5	undertake an independent translation practice	Upto K3
21UEHS52	PERSONALITY ENRICHMENT	CO 1	be more proficient in their future career	Upto K3
		CO 2	to manage in different situations	Upto K3
		CO 3	improve the quality of their body language	Upto K3
		CO 4	utilize the skills acquired and use effectively in social space	Upto K3
		CO 5	set a perfect goal in life and acquire it	Upto K3
21UEHC61	INTRODUCTION TO LITERARY THEORY	CO 1	comprehend the value of theoretical models	Upto K3
		CO 2	know the important key concepts and arguments	Upto K3
		CO 3	acquire knowledge of literary theory and how to interpret	Upto K3
		CO 4	develop a close reading and analysis of the text	Upto K3
		CO 5	know and apply practical knowledge of critical theory and criticism	Upto K3
21UEHC62	PHONETICS AND	CO 1	understand and have a better understanding of organs of speech and speech mechanism	Upto K3



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	TRANSCRIPTIONS			
		CO 2	know the importance of sound speech and sound producing organs	Upto K3
		CO 3	acquire knowledge of phonetic symbols	Upto K3
		CO 4	develop a knowledge on phonetic transcriptions	Upto K3
		CO 5	know and apply practical knowledge on syllabification and word accent	Upto K3
21UEHC63	WOMEN'S WRITING	CO 1	get knowledge on women's writing and their literatures across globe	Upto K3
		CO 2	develop awareness of the basic features and functions of the concept.	Upto K3
		CO 3	help them write in different genres.	Upto K3
		CO 4	address the themes and debates that have shaped changing culture and nature globally.	Upto K3
		CO 5	strengthen the critical and literary skills and enrich their understanding skills	Upto K3
21UEHC64	AMERICAN LITERATURE	CO 1	acquire knowledge on American literature and cultures of the nation.	Upto K3
		CO 2	develop awareness of the basic features and functions of the concept.	Upto K3
		CO 3	identify the key features of poetry.	Upto K3
		CO 4	address the themes and debates that has	Upto K3



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			shaped changing culture and nature globally.	
		CO 5	identify and describe the major critical approaches to literary interpretation: New Criticism/ Formalism, Reader – Response, Feminism, and Marxism	Upto K3
21UEHE61	INDIAN LITERATURES IN TRANSLATION	CO 1	acquire knowledge on various Indian or regional literatures translated in English	Upto K3
		CO 2	create an awareness on the salient features of the concept	Upto K3
		CO 3	understand multiple genres	Upto K3
		CO 4	insight into the various global debates	Upto K3
		CO 5	strengthen their critical and literary skills and enrich their comprehending skills	Upto K3
21UEHE62	GENDER STUDIES	CO 1	get an introduction on Gender studies and the related theories	Upto K3
		CO 2	be aware of the features of the concept.	Upto K3
		CO 3	engage themselves with different genres	Upto K3
		CO 4	address the thematic debates in global literary ambiance	Upto K3
		CO 5	be enriched in their spirit of criticism and the power of comprehension	Upto K3
21UEHE63	ART FOR LITERATURE	CO 1	receive knowledge to survey literature through art	Upto K3



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		CO 2	comprehend the basic features and functions of the concept.	Upto K3
		CO 3	engage themselves with varied genres of literature	Upto K3
		CO 4	be aware of globally emerging trends with regard to art and literature	Upto K3
		CO 5	strengthen their critical and literary skills and enrich their understanding skills	Upto K3
21UEHE64	TRAVEL LITERATURE	CO 1	receive knowledge travelogues, an innovative literary genre	Upto K3
		CO 2	develop awareness of the basic features and functions of the travel narratives, a creative literary art	Upto K3
		CO 3	effectively record their travels and adventures	Upto K3
		CO 4	differentiate between and appreciate the emerging trends in travel literature across the globe.	Upto K3
		CO 5	strengthen their analytical skills to thematically analyse the travelogues and other indigenous forms of travel literature	Upto K3
21UEHE65	MYTH AND LITERATURE	CO 1	receive knowledge on myth literature recognize the prominence of Myth as a genre of literature	Upto K3



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		CO 2	become familiar with mythical concepts and symbols and kinds	Upto K3
		CO 3	critically appreciate Myth as an imaginative art form	Upto K3
		CO 4	address the themes and debates that have shaped changing culture and nature globally.	Upto K3
		CO 5	strengthen the critical and literary skills and enrich their understanding skills	Upto K3
21UEHE66	ECO LITERATURE	CO 1	acquire knowledge on eco literature and environmental issues	Upto K3
		CO 2	develop awareness of the environmental issues and the bondage that exists between human and natural systems	Upto K3
		CO 3	write in different genres.	Upto K3
		CO 4	develop an understanding and a spirit of inquiry into the globally emerging trends in eco literature	Upto K3
		CO 5	strengthen the critical and literary skills and enrich their understanding skills	Upto K3
BACHELOR OF BUSINESS ADMINISTRATION				
21UBNV11	வணிகக் கடிதங்கள்	CO 2	impart Brief Introduction about Business Letters and its uses.	K1
		CO 3	draft Business Letters and Confirmation	K2



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			Letters.	
		CO 4	draft Business Enquiry Letters and Complaint and reply letters.	K2,K3
		CO 5	acquire knowledge on drafting Circular Letters, Sales Letter and Public letters	K2,K3
		CO 1	get an introduction to Bank Letters and Job Application Letters	K2,K3
21UBNC11	FINANCIAL ACCOUNTING	CO 2	identify the basic concepts needed for Book keeping	K1
		CO 3	apply the basic concepts and prepare Journal, ledger and trial balance	K2,K3
		CO 4	design the format for final accounts	K2
		CO 5	analyze the information and prepare final accounts	K3
		CO 1	use the knowledge obtained and solve complex problems	K2,K3
21UBNC12	BUSINESS ENVIRONMENT	CO 2	understand the concept of Business Environment in relation to socio, economic and political factors.	K1
		CO 3	impart knowledge and skill to understand the role of business in society.	K2
		CO 4	develop moral and ethical ability among students by learning business ethical	K1,K2,



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			practices.	
		CO 5	analyse the economical background of privatization to understand the modern economy.	K1,
		CO 1	deliberate various economic system and its impact on business.	K1
21UCEA11	BUSINESS ECONOMICS	CO 2	provide basic knowledge of Business Economics and its scope	K1
		CO 3	impart knowledge of utility concepts and demand analysis in an illustrative manner.	K2
		CO 4	illustrate various cost concepts with theoretical and diagrammatic presentation	K1,K2,K3
		CO 5	portray the market structure and price determination policies in various markets.	K1,K3
		CO 1	develop and impart knowledge about pricing policies and pricing methods and also provide economic background of profit	K1
21UBNV21	அலுவலக மேலாண்மை	CO 2	be familiarized with Modern Office Management and its uses.	K1
		CO 3	understand on the Functioning of Organization and Various activities like Centralised Post Handling.	K2
		CO 4	know about Filing, Order of Filing and Types.	K2



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		CO 5	impart students with knowledge on various machines used in office and their functions	K2,K3
		CO 1	be familiarized on Office Reports, Types and Structure.	K3
21UBNC21	COST ACCOUNTING	CO 1	identify the basic concepts needed for Cost Accounting	K1
		CO 2	apply the basic concepts in various areas of production	K2,K3
		CO 3	design the format for cost control	K2
		CO 4	analyze the information and apply techniques	K3
		CO 5	use the knowledge obtained and make business decisions	K2,K3
21UBNC22	BANKING TECHNOLOGY	CO 1	provide basic knowledge of Banking system	K1
		CO 2	make the students to understand banking operations and its instruments	K2
		CO 3	develop the banking skills about the students	K1,K2,
		CO 4	expose modern banking system and its development.	K1,K3
		CO 5	develop e-banking skills to the students	K1



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Contact No.: 87542 09994

87542 08885

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21UBNA21	NEW ECONOMIC SYSTEM OF INDIA	CO 1	To portray the economic development of India	K1
		CO 2	To impart knowledge about population and its policy framework	K2
		CO 3	To make the students to understand the capital formation process and its trend.	K1,K2,
		CO 4	To Picturise agricultural and industrial scenario of India with functioning of its related institutions.	K1,K2
		CO 5	To explore the process of economic planning and its achievement and failure with empirical evidence.	K1
21UBNSS1	SECRETARIAL PRACTICE	CO 1	understand the basic concepts of the Company and its kinds.	K1
		CO 2	develop knowledge on formation of company	K2,
		CO 3	understand the role of a company secretary	K2, K3
		CO 4	understand the procedure for conducting meetings of a company	K2
		CO 5	get awareness on overall management of companies as per the Act.	K2,
21UBNC31	PRINCIPLES OF MANAGEMENT	CO 1	identify the basic concepts of management	Upto K3



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		CO 2	apply the basic concepts of management to obtain the business objectives	Upto K3
		CO 3	design the format for effective utilization of resources	Upto K3
		CO 4	analyze the situation and take good business decisions	Upto K3
		CO 5	use the knowledge obtained and solve business problems	Upto K3
21UBNC32	BUSINESS STATISTICS	CO 1	formulate the knowledge of statistics and its application in the field of business.	Upto K3
		CO 2	discuss the application of statistics in the field of business.	Upto K3
		CO 3	create the knowledge on basic statistical tools.	Upto K3
		CO 4	adapt to the application of statistical tools in specific business situations	Upto K3
		CO 5	develop the analytical and reasoning skills.	Upto K3
21UBNC33	ORGANISATIONAL BEHAVIOUR	CO 1	understand fundamentals of Organizational Behaviour and its models	K1
		CO 2	outline on the concepts like Group Dynamics, Group formation and Group	Upto K2



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			Development	
		CO 3	understand about Motivation and to demonstrate Motivational Techniques or Theories.	Upto K2
		CO 4	explain about Morale among employees and how it affects the functioning of Organization.	Upto K3
		CO 5	summarize about Organizational Change, Challenges and overcoming the resistance for Change in the Organization.	Upto K3
21UBNA31	FOREIGN TRADE MANAGEMENT	CO 1	receive basic knowledge of global trade and its scope	Upto K3
		CO 2	understand trade operations and its instruments	Upto K3
		CO 3	understand the concept of balance of payments	Upto K3
		CO 4	portray the foreign exchange market and exchange Rate determination policies in various markets.	Upto K3
		CO 5	get knowledge about foreign trade policy and export measures.	Upto K3
21UBNS31	COMPUTER SKILLS – I	CO 1	understand the Basics of Computers and	K1



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			Operations.	
		CO 2	know about the basic components of Computer	Upto K2
		CO 3	know the Concept of Operation Systems(Windows) and the Options.	Upto K3
		CO 4	understand about basics of MS Word	Upto K3
		CO 5	know about the advanced options of MS Word	Upto K3
21UBNS32	COMPUTER SKILLS –II	CO 1	understand the Basics of MS Excel	K1
		CO 2	apply statistics formulas using MS Excel	Upto K2
		CO 3	work on MS – PowerPoint	Upto K3
		CO 4	create PowerPoint Slides and Create a presentation	Upto K3
		CO 5	understand Tally and make entries in Tally	Upto K3
21UBNN31	BASIC PRINCIPLES OF MANAGEMENT	CO 1	identify the basic concepts of management	K1
		CO 2	apply the basic concepts to take better decisions	Upto K3



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		CO 3	design the format for effective utilization of resources	Upto K3
		CO 4	analyze the situation and solve business problems	Upto K3
		CO 5	use the knowledge obtained in successful running of business	Upto K3
21UBNN32	BUSINESS COMMUNICATION	CO 1	identify the basics of business communication	K1
		CO 2	identify the types of business letters	K1
		CO 3	know about sales letters and draft sales letters	K2
		CO 4	draft Situation based Circular letters	K2
		CO 5	understand about bank correspondence letters and draft bank letters	K2
21UBNC41	ELEMENTS OF MERCANTILE LAW	CO 1	identify the basic concepts of Contract Act and Labour law	K1
		CO 2	apply the basic concepts to enter into contracts and deal with human resources	Upto K3
		CO 3	design the format for drafting contracts	Upto K3
		CO 4	analyze the situation and apply the rules of	Upto K3



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			contract act and labour law	
		CO 5	use the knowledge obtained and solve complex situations	Upto K3
21UBNC42	BUSINESS MATHEMATICS	CO 1	formulate basic methods of Analytical Geometry, Set theory, business calculus, and their basic applications in business.	Upto K3
		CO 2	understand the concept of Matrices and simple application	Upto K2
		CO 3	apply the acquired knowledge and skills with practical problems in economics	Upto K3
		CO 4	formulate mathematical equations for business analysis.	Upto K3
		CO 5	outline the optimization methods using differential calculus	Upto K2
21UBNC43	MARKETING MANAGEMENT	CO 1	acquire knowledge on Marketing, 4 P's in Marketing and Consumer Behaviour	K1
		CO 2	familiar with the Concept of Product Planning, Product Lifecycle and Branding	Upto K3
		CO 3	know about Pricing, Different Kinds of Pricing and Steps in determining price.	Upto K3
		CO 4	outline various Channels Of Distribution,	Upto K3



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			Retailing and Wholesaling.	
		CO 5	summarize on the concept of Sales Promotion and different kinds of Sales Promotion.	Upto K3
21UBNA41	INDUSTRIAL RELATIONS	CO 1	understand the basic concepts of industrial relations and its significance.	Upto K3
		CO 2	understand the industrial disputes and its settlement procedures	Upto K3
		CO 3	receive knowledge about collective bargaining process in Indian industries	Upto K3
		CO 4	explore various causes and settlement of grievances and working of grievance system.	Upto K3
		CO 5	get knowledge about workers participation in management and prospects and problems of trade union in India.	Upto K3
21UBNS41	E – COMMERCE SKILLS – I	CO 1	acquire basic knowledge about Electronic commerce and a brief introduction about it.	K1
		CO 2	understand the Business models and types in E – Commerce	Upto K2
		CO 3	know the concept of B2C E – Commerce and its impact on traditional retail system	Upto K3



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			and process of online purchasing.	
		CO 4	understand the concept of B2B E – commerce based on Buyer and supplier.	Upto K3
		CO 5	get an introduction to all type Electronic Payments and smart cards.	Upto K2
21UBNS42	E-COMMERCE SKILLS – II	CO 1	impart basic knowledge about Electronic commerce and a brief introduction about it.	K1
		CO 2	understand the Business models and types in E – Commerce	Upto K2
		CO 3	know the concept of B2C E – Commerce and its impact on traditional retail system and process of online purchasing.	Upto K3
		CO 4	understand the concept of B2B E – commerce based on Buyer and supplier.	Upto K3
		CO 5	acquire an introduction to all type Electronic Payments and smart cards.	Upto K2
21UBNN41	BASICS OF ORGANIZATIONAL BEHAVIOUR	CO 1	understand basics of Organizational Behaviour and its role	K1
		CO 2	know about Individual Behaviour in an	Upto K2



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Course Code	Name of the Course	CO	CO Statement	Knowledge level (According to Blooms taxonomy)
			Organization and the factors associated with it	
		CO 3	impart basics about Motivation and its techniques	Upto K2
		CO 4	explain about Organizational Change and its barriers and to analyse how an Organization adopts to it.	Upto K3
		CO 5	outline the Leadership Theories, Styles and how it affects business.	Upto K3
21UBNN42	EMPLOYABILITY SKILLS	CO 1	understand interpersonal skills	K1
		CO 2	know about life skills (SWOT)	K2
		CO 3	impart basics interview skills	K2
		CO 4	know and practice Group Discussion	K2
		CO 5	know about stress management	K2
21UBNZ41	CONSUMERISM	CO 1	understand the basic concepts of the consumers and markets in our country	K1
		CO 2	understand the consumer protection Law	Upto K2
		CO 3	understand the grievance redressal mechanism available for consumers	Upto K2



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		CO 4	understand the role of industry regulators in consumer protection	Upto K2
		CO 5	developing awareness on Consumer issues	Upto K2
21UBNC51	OPERATIONS MANAGEMENT	CO 1	identify the basic concepts of Operations Management	Upto K3
		CO 2	apply the concepts of Operations Management to obtain competitive advantage	Upto K3
		CO 3	design the format for effective utilization of resources	Upto K3
		CO 4	analyze the concepts and use them to take good business decisions	Upto K3
		CO 5	use the knowledge obtained and gain competitive advantage to earn more profit	Upto K3
21UBNC52	HUMAN RESOURCES MANAGEMENT	CO 1	understand the fundamental Concepts and functions of Human Resource Management.	Upto K3
		CO 2	explain about Job Analysis and Full Life Cycle of Recruitment Process.	Upto K3
		CO 3	demonstrate on Training and Development, Types and Methods.	Upto K3
		CO 4	understand about Wage and Salary Management and methods involved in it.	Upto K3



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		CO 5	gain knowledge on Performance appraisal and its methods to apply in an Organization	Upto K3
21UBNC53	FINANCIAL MANAGEMENT	CO 1	understand the basics of financial management and its scope	Upto K3
		CO 2	determine various sources of finance to corporate form of business	Upto K3
		CO 3	discuss various concepts related to Working Capital management.	Upto K3
		CO 4	make use of various tools to calculate cost of capital	Upto K3
		CO 5	develop analytical skills in selection of project for finance.	Upto K3
21UBNCR1	SUMMER TRAINING	CO 1	develop Skills in the application of theory to practical work stations.	Upto K3
		CO 2	develop Skills and techniques directly applicable to their careers.	Upto K3
		CO 3	enhance Group Cohesiveness and Team Work.	Upto K3
		CO 4	know the basic functioning of Business and its practices	Upto K3
		CO 5	use the knowledge obtained and Prepare a Report	Upto K3
21UBNE51	CASE ANALYSIS	CO 1	know how to examine the managerial case	Upto K3



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			or problem.	
		CO 2	know the basic management leadership theories mostly used in industries and understand methods to manage change	Upto K3
		CO 3	analyse the event occurred with Marketing Problems	Upto K3
		CO 4	provide Solution for uncertain situations and provide solutions with their Managerial abilities in human resource management	Upto K3
		CO 5	have an increase in their Managerial Efficiency and will be able to prepare reports which will help them to handle Organization Environment.	Upto K3
21UBNE52	TOTAL QUALITY MANAGEMENT	CO 1	get acquainted with Fundamental principles of TQM and a brief introduction on it.	Upto K3
		CO 2	understand Conceptual framework on the Various Quality Models and Tools.	Upto K3
		CO 3	know about various Quality Management Standards and how it is applied in the organization	Upto K3
		CO 4	understand about Benchmarking and FMEA Analysis to know what are the failure rates in a production unit and how an organization	Upto K3



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			manages it.	
		CO 5	summarize on thorough understanding of TQM Principles and about ISO 9000 Standards in business.	Upto K3
21UBNE53	STRATEGIC MANAGEMENT	CO 1	identify the basic concepts of Strategy, needs and limitations	Upto K3
		CO 2	demonstrate the environmental analysis, SWOT Analysis and Value Chain Approach	Upto K3
		CO 3	summarize the factors influencing strategy and 7s Framework	Upto K3
		CO 4	define how to implement the strategy and evaluation of strategy	Upto K3
		CO 5	understand Strategic Control Process and Use the knowledge to Adopt the Business Uncertainties	Upto K3
21UBNSP1	GROUP DISCUSSION SKILLS (PRACTICALS)	CO 1	know about Group Discussion	Upto K3
		CO 2	understand the types of Group Discussion	Upto K3
		CO 3	know about the rules in Group Discussion	Upto K3
		CO 4	analyze and discuss various management topics within a group	Upto K3
		CO 5	know the importance of Team Work	Upto K3
21UBNC61	MANAGEMENT	CO 1	understand the scope of Management	Upto K3



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	ACCOUNTING		Accounting.	
		CO 2	get exposure on the tools and techniques of Management Accounting	Upto K3
		CO 3	gain practice in preparing various Budgets	Upto K3
		CO 4	understand and apply the Financial Statement Analysis with Ratios and Fund flow statement	Upto K3
		CO 5	apply Marginal Costing techniques in Managerial Decisions.	Upto K3
21UBNC62	ENTREPRENEURSHIP DEVELOPMENT	CO 1	identify the basic concepts of Entrepreneurship	Upto K3
		CO 2	apply the basic concepts to prepare project report	Upto K3
		CO 3	get to know about institutions supporting entrepreneurs	Upto K3
		CO 4	understand the incentives and concessions given by Government to small entrepreneurs	Upto K3
		CO 5	use the knowledge obtained to understand the problem and revive sick units	Upto K3
21UBNC63	RESEARCH METHODOLOGY	CO 1	relate and be able to explain business research	Upto K3
		CO 2	understand about sampling methods and identify the difference between probability	Upto K3



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			and non – probability sampling method	
		CO 3	understand about Data collection methods.	Upto K3
		CO 4	analyse the Data	Upto K3
		CO 5	learn about interpretation and report writing	Upto K3
21UBNE61	SERVICES MARKETING	CO 1	understand about Services Marketing – classification and Demand vs Supply Management.	Upto K3
		CO 2	acquire knowledge on Services Marketing Mix and its elements.	Upto K3
		CO 3	know about types of Distribution channels and about the role of People and Physical Evidence in Services Marketing.	Upto K3
		CO 4	understand about Services Marketing Process and Marketing Strategies.	Upto K3
		CO 5	receive knowledge on Service Quality and Various dimensions and tools associated with it.	Upto K3
21UBNE62	RETAIL MANAGEMENT	CO 1	identify the basic concepts of Retailing	Upto K3
		CO 2	understand the concept of Stores Operation and HR related issues in Retailing	Upto K3
		CO 3	design the format for effective Stores Operation	Upto K3
		CO 4	introduce concepts of Micro Marketing and	Upto K3



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			Multi Channel Retailing	
		CO 5	use the knowledge obtained and become a successful retailer	Upto K3
21UBNE63	DIGITAL MARKETING	CO 1	explain about fundamental concepts of Digital Marketing	Upto K3
		CO 2	outline about the importance of Online Marketing	Upto K3
		CO 3	understand about Email Marketing and Blogging and how to market the products using these technologies.	Upto K3
		CO 4	know about Social Media Marketing and their Components and how it impacts today's business.	Upto K3
		CO 5	summarize on Digital Marketing and recent trends in it.	Upto K3
21UBNEV1	FIELD STUDY	CO 1	receive field related knowledge	Upto K3
		CO 2	acquire skills on sampling design & questionnaire designing	Upto K3
		CO 3	become aware of collection of data	Upto K3
		CO 4	analyze the data.	Upto K3
		CO 5	be trained to prepare final report	Upto K3
21UBNSP2	INTERVIEW SKILLS (PRACTICALS)	CO 1	understand the methods & types of Interview	Upto K3



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		CO 2	be aware about the dress codes of Interview	Upto K3
		CO 3	know the technique of Resume writing	Upto K3
		CO 4	build self-confidence and to face difficult situation	Upto K3
		CO 5	be aware about Frequently asked questions in Interviews	Upto K3
B.COM				
21UAC A11	வணிகக் கடிதங்கள்	CO 1	வணிகக் கடிதத்தின் நோக்கத்தையும் அவற்றின் கூறுகள், பொதுவான அம்சங்கள் மற்றும் படிவத்தை அறிந்து கொள்ளுதல்.	K1, K2
		CO 2	வியாபாரத்திற்கு தேவையான முனைவுக் கடிதங்கள், விலைப்புள்ளிகள், ஆணையறுக்கள் மற்றும் சரக்கு பெற்றுக் கொண்டதை போன்ற அனைத்து வகையான கடிதங்கள் மூலம் தெரிந்து கொள்தல்	K1, K2, K3
		CO 3	விசாரணைக் கடிதங்களில் தொடங்கி புகார்கள் சரிகட்டுதல்கள், நிலுவைத்தொகை, வசூல் மற்றும் கணக்கை நேர் செய்தல் வரை கடிதங்களை எழுதிப் பழகுதல்.	K1, K2, K3
		CO 4	சுற்றுக் கடிதங்கள் தயார் செய்தல் மற்றும் அரசு, பொதுசேவை அமைப்பு சார்ந்தவை வரைதல்	K2, K3
		CO 5	வேலை வாய்ப்பிற்கான கடிதங்கள் மற்றும் பத்திரிக்கை ஆசிரியருக்கு மடல்கள் பயன்படும் வகையில் இப்பாடம் அமைந்துள்ளது.	K1, K2, K3



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Contact No.: 87542 09994

87542 08885

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soucollege@gmail.com

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Course Code	Name of the Course	CO	CO Statement	Knowledge level (According to Blooms taxonomy)
21UCEC11	Financial Accounting – I	CO 1	understand the preparation of Journal and Ledger.	K1, K2
		CO 2	prepare the Single, Double, Triple column cash book and Petty cash book as well as Trial balance.	K1, K2, K3
		CO 3	acquire the knowledge of preparation of final accounts.	K1, K2, K3
		CO 4	locate the errors in the transactions by applying the types of errors.	K2, K3
		CO 5	acquire knowledge about application of methods of depreciation.	K1, K2, K3
21UCEC12	Principles of Management	CO 1	understand the basic concepts of management and also explain the roles and responsibilities of managers.	K1, K2
		CO 2	gain the proper planning and elements and techniques of planning recognize and apply the skills necessary for carrying out effective management	K1, K2
		CO 3	remember organizational structure impacts strategy, performance, and operations for applying the same to the executive the business.	K1, K2, K3
		CO 4	understand the basic concepts of staffing motivation techniques and leadership	K2, K3



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			qualities.	
		CO 5	understand the controlling techniques and effective controls for attaining goals of business organization.	K2, K3
21UBNA11	Business Economics	CO 1	explain basic knowledge of Business Economics and its scope	K1
		CO 2	get knowledge of utility concepts and demand analysis in an illustrative manner.	K2
		CO 3	illustrate various cost concepts with theoretical and diagrammatic presentation	K1,K2,K3
		CO 4	portray the market structure and price determination policies in various markets.	K1,K3
		CO 5	develop and get knowledge about pricing policies and pricing methods and also provide economic background of profit	K1
21UACA21	அலுவலக மேலாண்மை	CO 1	அலுவலக மற்றும் நவீன அலுவலகத்தின் மேலாண்மையின் செயல்பாடுகள் அதன் முக்கியத்துவத்தை அறிய செய்தல்	K1, K2
		CO 2	பணியின் சூழ்நிலைகளையும் மற்றும் தபால்களை கையாளுதல் படிக்கப்படுதல்	K1, K2, K3
		CO 3	அலுவலக கோப்பை இடுதல் அவற்றின் அம்சங்கள் மற்றும் பராமரித்தல்	K1, K2, K3
		CO 4	இயந்திரங்களை கையாளுதல், பராமரித்தல் மற்றும் அதன் அடிப்படைப் கோட்பாடுகளை	K2, K3



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			அறிய செய்தல்	
		CO 5	அலுவலக அறிக்கைகள் அவற்றின் முக்கியத்துவம், வகைகள், செயலாக்கம் கற்க செய்தல்	K1, K2, K3
21UCEC21	Financial Accounting – II	CO 1	understand the concepts and application of methods in single entry system.	K1, K2
		CO 2	acquire the knowledge of preparation of self balancing system.	K1, K2
		CO 3	gain the preparation of bills of exchange.	K1
		CO 4	use the calculation of interest in account current and average due date.	K2, K3
		CO 5	apply the preparation of receipts and payment accounts and income and expenditure account.	K1, K2, K3
21UCEC22	Banking Theory Law and Practice	CO 1	understand the nature of present day banking in India.	K1, K2
		CO 2	acquire the nature of banking law and to know the procedure for making transactions in the banking institutions.	K1, K2
		CO 3	gain knowledge in the dynamics of banking transactions.	K1, K2
		CO 4	understand the meaning and importance of developments in the practices of banking in India.	K2



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		CO 5	use the principles of good lending, the concepts of – Advances, Hypothecation and pledge.	K1, K2, K3
21UCEA21	Economic Development of India	CO 1	portray the economic development of India	K1
		CO 2	impart knowledge about population and its policy framework	K2
		CO 3	make the students to understand the capital formation process and its trend.	K1,K2,
		CO 4	Pictures' agricultural and industrial scenario of India with functioning of its related institutions.	K1,K2
		CO 5	explore the process of economic planning and its achievement and failure with empirical evidence.	K1
21UCEC31	FINANCIAL MANAGEMENT	CO 1	recollect the concept and importance of financial management	Upto K3
		CO 2	examine various methods and techniques for calculating cost of capital	Upto K3
		CO 3	have thorough knowledge about various theories of capital structure	Upto K3
		CO 4	gain knowledge indifferent methods of	Upto K3



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			capital budgeting and its applications.	
		CO 5	get knowledge about various dividend policies.	Upto K3
21UCEC32	BUSINESS STATISTICS	CO 1	acquire knowledge about averages to be used in business research	Upto K3
		CO 2	gain knowledge about dispersion and skewness measures	Upto K3
		CO 3	gain knowledge about the application of correlation	Upto K3
		CO 4	understand the techniques used in regression	Upto K3
		CO 5	acquire knowledge in measurement of trend, index number and its application in business research	Upto K3
21UCEC33	FINANCIAL ACCOUNTING – III	CO 1	understand the preparation of capital accounts.	Upto K3
		CO 2	acquire knowledge in the accounting practice prevailing in admission of a partner	Upto K3
		CO 3	gain knowledge in accounting practice prevailing in retirement and death of a partner	Upto K3



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		CO 4	gain knowledge in accounting practice and dissolution of a firm and sale of a company	Upto K3
		CO 5	expand knowledge in accounting practice prevailing in Insolvency of a partner and Piece-meal Distribution	Upto K3
21UCEA31	PROMOTIONAL MARKETING	CO 1	gain knowledge about methods of promotional mix and strategies of sales activities	Upto K3
		CO 2	equipped with the knowledge regarding sales promotion and provide duties and responsibilities of sales manager	Upto K3
		CO 3	enable clear knowledge about sales promotion	Upto K3
		CO 4	comprehend advertising activities and implement their own ideas for developing business.	Upto K3
		CO 5	acquire knowledge regarding Advertising media	Upto K3
21UCES31	AUDITING	CO 1	acquire the basic concepts of auditing	Upto K3
		CO 2	understand the internal audit and auditors duty	Upto K3
		CO 3	learn the various aspects of vouching	Upto K3
		CO 4	explain about verification, valuation of tangible and intangible assets	Upto K3



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		CO 5	understand about auditors report, certificates and kinds of reports.	Upto K3
21UCESP1	BANKING PRACTICAL	CO 1	know and use the forms available in the bank	Upto K3
		CO 2	know about the practical work	Upto K3
		CO 3	gain knowledge of filling up of various form	Upto K3
		CO 4	knowledge about the specimen of fixed deposit receipt demand draft	Upto K3
		CO 5	knowledge about format of guarantee, railway receipts, lorry receipts and bank balance sheet	Upto K3
21UCEN31	SALESMANSHIP	CO 1	explain the various selling methods	Upto K3
		CO 2	understand the characteristics of a successful salesman	Upto K3
		CO 3	analyse the qualities of a good salesman	Upto K3
		CO 4	differentiate the various types , duties and responsibilities of salesmanship	Upto K3
		CO 5	describe the remuneration plans	Upto K3
21UCEN32	BUSINESS ORGANIZATION – I	CO 1	gain knowledge about business profession and employment	Upto K3
		CO 2	be acquainted with qualities of good businessman	Upto K3



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		CO 3	get in–depth knowledge regarding partnership organization , its merits and demerits	Upto K3
		CO 4	develop knowledge about cooperative organization	Upto K3
		CO 5	analyse and differentiate cooperative with sole trader and partnership firm	Upto K3
21UCEC41	HUMAN RESOURCE MANAGEMENT	CO 1	explain human resource planning dealing with surplus and deficient manpower	Upto K3
		CO 2	describe the meanings of terminology and tools used in managing employees effectively	Upto K3
		CO 3	prepare a selection strategy for a specific job	Upto K3
		CO 4	gain knowledge in develop, analyse and apply advanced training strategies and specifications for the delivery of training program	Upto K3
		CO 5	compare and contrast the different techniques involved in the performance appraisal process.	Upto K3
21UCEC42	BUSINESS MATHEMATICS	CO 1	recognize set theory in applicability, solve and communicate real life problems	Upto K3
		CO 2	gain the working knowledge on indices and	Upto K3



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			surds	
		CO 3	discern effects of imparting the tenets of arithmetic application involved in decision making.	Upto K3
		CO 4	differentiate power functions and determine the nature of derivative tests.	Upto K3
		CO 5	define and understand the relationship between matrix and determinants and represent real world applications.	Upto K3
21UCEC43	FINANCIAL ACCOUNTING – IV	CO 1	understand the preparation of fire insurance claim	Upto K3
		CO 2	prepare hire purchase and installment purchase system	Upto K3
		CO 3	acquire knowledge of preparation of branch accounts	Upto K3
		CO 4	gain knowledge about accounting practice prevailing in departmental accounting	Upto K3
		CO 5	understand the preparation of royalty accounts	Upto K3
21UCEA41	ENTREPRENEURSHIP	CO 1	understand the concept of entrepreneurship and its qualities	Upto K3
		CO 2	describe the functions and problems of women entrepreneurs	Upto K3



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		CO 3	identify the Institutional finance to entrepreneurs	Upto K3
		CO 4	analyse the various schemes available to entrepreneurs	Upto K3
		CO 5	build the preparation of project report	Upto K3
21UCES41	GOODS & SERVICES TAX	CO 1	understand the objectives, Canons of Taxation, Characteristics of a Good Tax system in India	Upto K3
		CO 2	acquire knowledge on goods exempt from Goods and Services Tax	Upto K3
		CO 3	understand the Enactment of GST Bills and Economic Growth	Upto K3
		CO 4	acquire the knowledge of the GST Council and GST Council Secretariat	Upto K3
		CO 5	gain the knowledge on Strengths of Goods and Services Tax in India and Threats of GST in India	Upto K3
21UCESP2	COMMERCE PRACTICAL	CO 1	know the concept of voucher, invoice, debit note and credit note	Upto K3
		CO 2	gain knowledge of preparation of statement of affairs of a joint stock company	Upto K3
		CO 3	acquire knowledge of filling up of equity share application form, share transferred	Upto K3



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			deed and proxy form	
		CO 4	understand the currencies of different Countries	Upto K3
		CO 5	acquire knowledge to fill up the PAN Card application, Nomination form and Assignment form	Upto K3
21UCEN41	ADVERTISING	CO 1	explain the various concepts of publicity, salesmanship and promotion	Upto K3
		CO 2	understand the functions of advertising	Upto K3
		CO 3	analyse the advantages to manufacturers, wholesalers and retailers	Upto K3
		CO 4	identify the various kinds of advertising	Upto K3
		CO 5	describe the merits and demerits of advertisement media	Upto K3
21UCEN42	BUSINESS ORGANIZATION – II	CO 1	acquire basic knowledge of business organization	Upto K3
		CO 2	read, understand and critically evaluate the information about various types of companies	Upto K3
		CO 3	describe the processes underlying diversity within an organization.	Upto K3
		CO 4	cognise organisational communications and decision-making	Upto K3



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		CO 5	demonstrate the roles, skills and functions of companies	Upto K3
21UCEC51	INCOME TAX LAW & PRACTICES – I	CO 1	understand the various concepts of Income Tax and the sections of various exempted incomes	Upto K3
		CO 2	identify the exempted and taxable allowances , perquisites and to solve the problems based on Income from Salary	Upto K3
		CO 3	calculate the Net Annual Value under the head House property	Upto K3
		CO 4	compute the Income from Business and Profession	Upto K3
		CO 5	identify the capital assets and solve the problems of Capital gain and also the other sources incomes.	Upto K3
21UCEC52	COST ACCOUNTING	CO 1	recall various concepts of costing and costing methods	Upto K3
		CO 2	analyze the various elements of costing	Upto K3
		CO 3	explain the labour wage payment system	Upto K3
		CO 4	outline the cost under process costing system	Upto K3
		CO 5	examine operational costing and reconciliation of cost and financial	Upto K3



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			statements.	
21UCEC53	CORPORATE ACCOUNTING – I	CO 1	analyse about the procedure for issue , forfeiture and reissue of shares	Upto K3
		CO 2	gain knowledge about the redemption of debentures	Upto K3
		CO 3	acquaint knowledge with the calculation of profit – prior incorporation.	Upto K3
		CO 4	compute the problems related to accounting treatment in the books of purchasing company and the vendor company	Upto K3
		CO 5	prepare the valuation of goodwill and shares	Upto K3
21UCEC54	ENVIRONMENT OF BUSINESS	CO 1	scan the environment and its effect on business	Upto K3
		CO 2	be equipped with provisions of the government with respect to the business	Upto K3
		CO 3	analyse economic system and the policies	Upto K3
		CO 4	cope with the international practices in the business	Upto K3
		CO 5	analyse cultural factor and social responsibilities of business	Upto K3
21UCEE51	BUSINESS LEGISLATION – I	CO 1	assess the various elements related business law and contract	Upto K3



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		CO 2	interpret different type of contract and its features	Upto K3
		CO 3	explain about the agency system related to creation and termination of agency	Upto K3
		CO 4	compare between rights and duties of indemnity, guarantee	Upto K3
		CO 5	examine the difference between sale and guarantee to sell and its features	Upto K3
21UCEE52	INDUSTRIAL ORGANISATION	CO 1	understand the knowledge of modern industry	Upto K3
		CO 2	provide the concepts of promotion of new undertaking and plant location	Upto K3
		CO 3	gain knowledge of the concepts of industrial combination	Upto K3
		CO 4	explain the knowledge of causes and effects of capitalization.	Upto K3
		CO 5	understand the relationship between market outcomes, social welfare, and the conduct of firms;	Upto K3
21UCEE53	E-BANKING	CO 1	understand the Payment Systems and Electronic Banking	Upto K3
		CO 2	explain the product features and services of ATM cash deposit machine.	Upto K3



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		CO 3	discuss the profitability ,risk management and frauds of mobile and internet e-banking	Upto K3
		CO 4	understand the Evolution of EFT System; Automated Clearing Systems; Funds Transfer Systems	Upto K3
		CO 5	explain the need for E-banking products and usage of cards and various payment systems.	Upto K3
21UCES51	COMPANY ORGANISATION	CO 1	understand of meaning and activities of companies.	Upto K3
		CO 2	acquire knowledge about Incorporation of company	Upto K3
		CO 3	receive knowledge about prospectus and shares.	Upto K3
		CO 4	understand procedure of meetings and resolutions	Upto K3
		CO 5	understand the winding up of the company	Upto K3
21UCEC61	INCOME TAX LAW & PRACTICES – II	CO 1	understand the term clubbing of income and set-off and carry forward of losses	Upto K3
		CO 2	identify the deduction of incomes under sections 80	Upto K3
		CO 3	calculate the total taxable income of an individual and HUF	Upto K3
		CO 4	compute the total taxable income of Partners	Upto K3



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			and Association of Persons.	
		CO 5	gain knowledge of various assessment procedures and Permanent Account Number.	Upto K3
21UCEC62	MANAGEMENT ACCOUNTING	CO 1	outline the various concepts relating to management accounting	Upto K3
		CO 2	analyze financial statements using ratio analysis	Upto K3
		CO 3	evaluate the working capital management of companies	Upto K3
		CO 4	compare various alternatives using marginal costing and decision making	Upto K3
		CO 5	analyze new budget and budgetary control for organizations	Upto K3
21UCEC63	CORPORATE ACCOUNTING – II	CO 1	understand the conceptual Knowledge of the accounting standards.	Upto K3
		CO 2	get basic knowledge of accounting procedures of Banking Companies.	Upto K3
		CO 3	gain basic knowledge of accounting procedures of Insurance Companies.	Upto K3
		CO 4	compute the accounting treatment of Holding Companies.	Upto K3
		CO 5	analyze the concepts and preparation of	Upto K3



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Contact No.: 87542 09994

87542 08885

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Course Code	Name of the Course	CO	CO Statement	Knowledge level (According to Blooms taxonomy)
			liquidators' final statements	
21UCEE61	BUSINESS LEGISLATION-II	CO 1	assess the various elements related to sale of goods act	Upto K3
		CO 2	interpret different type of carriage of goods act	Upto K3
		CO 3	explain about the legal provisions relating to arbitration	Upto K3
		CO 4	compare between central consumer protection council and state consumer protection council	Upto K3
		CO 5	examine about the essential commodities act.	Upto K3
21UCEE62	COMPANY LAW	CO 1	understand the basic tenets of Company Law regime.	Upto K3
		CO 2	explain about the various flaws in existing Company Law and how the judiciary has responded to them.	Upto K3
		CO 3	develop clear understanding about the practical situations faced by the various stakeholders of Indian Company Law regime in their professional life.	Upto K3
		CO 4	have an awareness about the rights of affected parties (against irregular company	Upto K3



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Course Code	Name of the Course	CO	CO Statement	Knowledge level (According to Blooms taxonomy)
			operations) in India.	
		CO 5	develop analytical perspective about the existing Company Law framework so as to enable them to suggest necessary changes.	Upto K3
21UCEE63	PRINCIPLES OF INSURANCE	CO 1	gain an insight into essential elements of insurance contract	Upto K3
		CO 2	acquire knowledge about the principles and procedure for taking a life policy	Upto K3
		CO 3	gain broader understanding of life insurance policy conditions and their claims	Upto K3
		CO 4	familiarized with the legal and financial aspects of marine insurance	Upto K3
		CO 5	able to identify the importance of fire insurance need	Upto K3
21UCEE64	FINANCIAL MARKETS AND SERVICES	CO 1	understand the role and importance of Indian financial market	Upto K3
		CO 2	apply and analyse the concepts relevant to new issue market	Upto K3
		CO 3	evaluate the role of regulatory bodies to develop the financial market	Upto K3
		CO 4	provide a comprehensive and in-depth knowledge about mutual funds and comprehend the concept of factoring.	Upto K3



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		CO 5	assess new venture opportunities and analyse strategic choices in relation to new ventures	Upto K3
21UCEE65	CAPITAL MARKETS	CO 1	acquire knowledge in the concept of financial markets	Upto K3
		CO 2	gain knowledge about various aspects of regulation of Indian capital market	Upto K3
		CO 3	understand the working mechanism of primary market	Upto K3
		CO 4	gain knowledge on the working mechanism of stock exchanges	Upto K3
		CO 5	acquire knowledge on the concept of underwriting and IPO	Upto K3
21UCEE66	CONSUMER RIGHTS AND EDUCATION	CO 1	recollect the Consumerism and different types of consumers.	Upto K3
		CO 2	examine of the Responsibilities of consumers.	Upto K3
		CO 3	have through knowledge about the consumer protection Act.	Upto K3
		CO 4	gain knowledge different prevention of food Adulteration Act.	Upto K3
		CO 5	get knowledge about the different methods of creating awareness.	Upto K3



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21UCES61	ACCOUNTING SOFTWARE – TALLY	CO 1	explain the role and need computers in accounting & creation of company	Upto K3
		CO 2	create primary groups ,single group and sub groups	Upto K3
		CO 3	prepare voucher entries for the given transactions.	Upto K3
		CO 4	prepare budgets and controls.	Upto K3
		CO 5	create purchase and sales order.	Upto K3
B.Com. CORPORATE SECRETARYSHIP				
21UCPC11	FINANCIAL ACCOUNTING - I	CO 1	explain the concepts and rules of book keeping	K1
		CO 2	understand double entry system and preparation of cash book	K2
		CO 3	explain the rules of final accounts of sole trading business.	K1, K3
		CO 4	rectify the accounting errors.	K1, K2, K3
		CO 5	describe the methods of depreciation.	K1, K2,K3
21UCPC12	PRINCIPLES OF MANAGEMENT	CO 1	understand the basic concepts, evolution of management and the roles and responsibilities of managers.	K1,K2.
		CO 2	describe the elements and techniques of planning and decision making.	K1,K2.



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		CO 3	discuss the nature and the types of organisation	K1,K2.
		CO 4	explain the concepts of staffing, directing, motivation leadership and communication in management	K1,K2.
		CO 5	list out the stages of control process and use of computers and IT in management control.	K1,K2,K3
21UCPA11	COMMERCIAL LAW	CO 1	identify the basic concepts of commercial law and the elements of valid contract.	K1, K2
		CO 2	discuss the types of contract, performance and discharge of contract.	K1
		CO 3	explain the remedies for the aggrieved party.	K2, K3
		CO 4	enumerate special contracts.	K1, K2
		CO 5	enumerate bailment and pledge.	K1, K2
21UCPC21	BANKING LAW & PRACTICE	CO 1	define the provisions of banking regulation, rights of banker and the customer.	K1, K2
		CO 2	classify the types of bank accounts, benefits and features and outline the partnership firm, joint stock company and joint Hindu family etc.,	K1, K2
		CO 3	compare the essential features of cheque, bills, promote and endorsement of cheque.	K1, K2,K3
		CO 4	understand the duties of paying and	K1, K2



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			collecting banker.	
		CO 5	discuss the principles of good lending, mortgage , hypothecation NPA and debt recovery tribunal.	K1, K2, K3
21UCPC22	FINANCIAL ACCOUNTING – II	CO 1	differentiate double entry with single entry and its conversion into double entry.	K1,K2,K3
		CO 2	prepare self balancing ledger	K2,K3
		CO 3	explain the types of commercial bills.	K1,K2,K3
		CO 4	compute average due date and methods of charging interest	K1,K2,K3
		CO 5	compute the final accounts of non-trading concern such as clubs, association.	K1,K2,K3
21UCPA21	INDUSTRIAL LAW	CO 1	discuss factories act and its rules.	K1
		CO 2	describe social security resources to workman in India with reference to workman's Compensation act 1923.	K1, K2
		CO 3	describe social welfare resources to workers in India with refer to ESI act.	K1.
		CO 4	explain retirement benefit scheme to workman gratuity act.	K1, K2.
		CO 5	describe grievance, redressal and conciliation of industrial disputes.	K1.



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21UCPC31	COMPANY LAW AND SECRETARIAL PRACTICE – I	CO 1	understand the company's rights, duties & liabilities of company secretary	Upto K3
		CO 2	explain the meaning of promoter, certificate of incorporation, MOA, AOA, alteration & contents of MOA & AOA	Upto K3
		CO 3	list the contents of prospectus & to understand the certificate of commencement of business.	Upto K3
		CO 4	classify the kinds of share capital, shares & bonus shares	Upto K3
		CO 5	differentiate members & shareholder and identify the rights & liabilities of members	Upto K3
21UCPA31	BUSINESS STATISTICS	CO 1	know business statistics concepts and its importance in business operation.	Upto K3
		CO 2	understand various tools and techniques to measure the central banking.	Upto K3
		CO 3	develop the skills and understand the various deviation and its measurement methods.	Upto K3
		CO 4	illustrate the application of correlation and regression in business.	Upto K3
		CO 5	get knowledge about trend analysis and time	Upto K3



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			series measurement methods.	
21UCPS31	PERSONALITY DEVELOPMENT	CO 1	understand the concepts of personality , success & failure	Upto K3
		CO 2	explain the meaning of attitude and its types	Upto K3
		CO 3	determine the significance of motivation & demotivation	Upto K3
		CO 4	discover self – esteem& interpersonal relationships	Upto K3
		CO 5	build the Resume and face personal interview	Upto K3
21UCPS32	PRINCIPLES OF INSURANCE	CO 1	understand the meaning of insurance, assurance and its classifications	Upto K3
		CO 2	explain life insurance and it types	Upto K3
		CO 3	elaborate on fire insurance, types and how to settle the claim.	Upto K3
		CO 4	describe the meaning of marine insurance, types of Marine loss, settlement of claim.	Upto K3
		CO 5	outline the meaning of motor insurance, crop insurance, personal accident insurance, medical insurance, health insurance, cattle insurance.	Upto K3



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21UCPN31	BUSINESS ACCOUNTING	CO 1	understand the meaning of accounting, accounting principles and book keeping	Upto K3
		CO 2	Prepare journal and ledger	Upto K3
		CO 3	find out the preparation of trial balance and the errors disclosed by trial balance	Upto K3
		CO 4	calculate the valuation of depreciation and classify the methods of depreciation.	Upto K3
		CO 5	prepare trading A/c, P & L A/c, Balance sheet with adjustments	Upto K3
21UCPC41	COMPANY LAW AND SECRETARIAL PRACTICE – II	CO 1	understand the meaning of debentures, difference between shareholders & debenture holders and duties of secretary	Upto K3
		CO 2	identify the appointment of director, qualification and disqualification of director, Duties & liabilities of directors.	Upto K3
		CO 3	classify the kinds of meeting, resolution and its types, procedures followed for conduct corporate meeting.	Upto K3
		CO 4	explain the definition of dividend, forms of dividend, appointment of auditors, rights & duties of auditors.	Upto K3
		CO 5	discuss the meaning of winding up of company, modes of winding up & duties	Upto K3



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			performed by secretary at the time of winding up.	
21UCPA41	BUSINESS ECONOMICS	CO 1	gain basic knowledge of Business Economics and its scope	Upto K3
		CO 2	get knowledge of utility concepts and demand analysis in an illustrative manner.	Upto K3
		CO 3	illustrate various cost concepts with theoretical and diagrammatic presentation	Upto K3
		CO 4	portray the market structure and price determination policies in various markets.	Upto K3
		CO 5	receive knowledge about pricing policies and pricing methods and also provide economic background of profit	Upto K3
21UCPS41	AUDITING	CO 1	understand the meaning of audit and its types	Upto K3
		CO 2	explain merits and demerits of the audit program and its contents	Upto K3
		CO 3	describe the meaning & the difference of internal cheque, internal audit & statutory audit	Upto K3
		CO 4	find the importance of vouching of cash & trading transactions	Upto K3



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		CO 5	discuss the qualifications, appointment, rights, and liabilities of an auditor	Upto K3
21UCPS42	PRINCIPLES OF MARKETING	CO 1	explain the concept of marketing & selling and the role of marketing in economic development.	Upto K3
		CO 2	understand the definition of product and the stages in new product development.	Upto K3
		CO 3	choose the types of pricing policies & strategies.	Upto K3
		CO 4	identify the kinds of channel distribution.	Upto K3
		CO 5	elaborate the meaning of sales promotion & types with examples	Upto K3
21UCPN41	ELEMENTS OF COMPANY LAW	CO 1	explain the meaning of company and the difference between Private limited and Public limited company.	Upto K3
		CO 2	understand the definition of promoter and certificate of incorporation.	Upto K3
		CO 3	write the meaning of members, shareholders and their rights & liabilities.	Upto K3
		CO 4	prepare MOA & AOA and its contents.	Upto K3
		CO 5	describe the meaning of meeting, types of meeting, proxy, agenda, minutes and quorum.	Upto K3



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21UCPC51	COST AND MANAGEMENT ACCOUNTING	CO 1	know about meaning, methods, types and element of cost.	Upto K3
		CO 2	learn on the various techniques of material control.	Upto K3
		CO 3	have through knowledge on control procedure of labor and Overhead cost.	Upto K3
		CO 4	learn on the practical application of Marginal and Standard Costing.	Upto K3
		CO 5	have thorough knowledge on Budgeting.	Upto K3
21UCPC52	BUSINESS ENVIRONEMENT AND LEGISLATION	CO 1	understand an overview of Business Environment in India	Upto K3
		CO 2	analyze, and appreciate, the importance of key environmental factors and to study the impact of environmental factors on the Business Policies and Decisions	Upto K3
		CO 3	understand the concept of Foreign Exchange and Management act & to study the concept of Securities contract, act its functions	Upto K3
		CO 4	study the concept of Trade Mark Act.	Upto K3



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		CO 5	understand the concept of Consumer Protection Act and Competition Act.	Upto K3
21UCPC53	INCOME TAX LAW AND PRACTICE	CO 1	understand the basic concepts of income tax.	Upto K3
		CO 2	understand and know the calculation procedure of income from salary and house property income.	Upto K3
		CO 3	understand the concept and computation of gain on Business or Profession, Capital gains and Other Sources income	Upto K3
		CO 4	understand the method of set off and carry forward and deductions from gross total income.	Upto K3
		CO 5	know the assessment procedure of Individual and Company.	Upto K3
21UCPC54	CORPORATE ACCOUNTING	CO 1	understand and prepare the Accounting for Share Capital	Upto K3
		CO 2	prepare the Accounting for Debentures	Upto K3
		CO 3	prepare the Accounting for Underwriting	Upto K3
		CO 4	understand and prepare the Final Accounts of the Company	Upto K3



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		CO 5	understand the concept and component of Financial Statement Analysis	Upto K3
21UCPE51	FINANCIAL MANAGEMENT	CO 1	know the basic concepts of financial management.	Upto K3
		CO 2	understand the concepts of cost of capital and Leverage.	Upto K3
		CO 3	understand the various approaches in Capital Structure and Capital Budgeting.	Upto K3
		CO 4	gain an insight about dividend policy and working capital.	Upto K3
		CO 5	analyse the Financial Statements.	Upto K3
21UCPE52	HUMAN RESOURCE MANAGEMENT	CO 1	understand the recent HRM concepts and its challenges.	Upto K3
		CO 2	understand the role of Human Resource Management in the organization strategic planning	Upto K3
		CO 3	gain knowledge on HR training and appraisal process.	Upto K3
		CO 4	gain basic knowledge of assessing and techniques of performance appraisal	Upto K3
		CO 5	know the compensation policy of the enterprises and understand recent development of wage and salary	Upto K3



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			administration	
21UCPE53	BUSINESS COMMUNICATION	CO 1	know about the principles, objectives and importance of communication.	Upto K3
		CO 2	know how to make business enquiries, place orders and write collection letters.	Upto K3
		CO 3	write banking, insurance and agency letters.	Upto K3
		CO 4	acquire knowledge on report preparation.	Upto K3
		CO 5	gain practical knowledge in E-Communication.	Upto K3
21UCPS51	COMPUTER APPLICATION IN BUSINESS	CO 1	know the basic concepts of computer application.	Upto K3
		CO 2	understand MS word and its application	Upto K3
		CO 3	gain an insight about MS Power Point and its application	Upto K3
		CO 4	understand the application of MS Excel	Upto K3
		CO 5	develop their understanding on internet and its usage	Upto K3
21UCPC61	ADVANCED CORPORATE ACCOUNTING	CO 1	understand and prepare the accounts of Holding Companies	Upto K3
		CO 2	prepare the accounts of Banking Companies	Upto K3



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		CO 3	prepare the Insurance Company accounts	Upto K3
		CO 4	prepare the liquidator's Final Statement.	Upto K3
		CO 5	understand the concept and component of Indian and International Accounting Standard.	Upto K3
21UCPC62	GENERAL LAW	CO 1	understand about the sources of Indian law.	Upto K3
		CO 2	explain about the Indian Constitution, its rights and duties, powers of the President, Prime Minister, Council of Ministers.	Upto K3
		CO 3	gain knowledge about the concept of Indian penal code and offences relating to Documents and Property Marks.	Upto K3
		CO 4	know about the criminal procedure code and powers.	Upto K3
		CO 5	know about the Rights To Information Act and its role	Upto K3
21UCPC63	GOODS AND SERVICE TAX & CUSTOMS	CO 1	describe the system of Indirect taxes in India and the bases for the levy of indirect taxes.	Upto K3
		CO 2	identify the reasons for the levy GST Identify the Structure of GST.	Upto K3
		CO 3	apply the concept of taxable supply and	Upto K3



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			input tax credit and register for GST and file returns as per GST Rules	
		CO 4	apply the concept of place of supply and can determine the nature of supply.	Upto K3
		CO 5	identify the taxable event of the levy of Customs duty in India and its Structure and apply the rules of classification and valuation of goods for customs purpose.	Upto K3
21UCPE61	BUSINESS MATHEMATICS	CO 1	acquire knowledge about the Basics of theory of sets operation.	Upto K3
		CO 2	understand Indices and Surds problems	Upto K3
		CO 3	know the mathematical functions of simple, compound interest and annuities.	Upto K3
		CO 4	become familiar with the concepts of differential and integral calculus.	Upto K3
		CO 5	gain the knowledge in types of matrices	Upto K3
21UCPE62	FINANCIAL MARKETS AND SERVICES	CO 1	know about the concepts and meaning of money market.	Upto K3
		CO 2	know the concept of Financial Intermediaries.	Upto K3
		CO 3	gain knowledge in New Issues Market and Secondary Markets.	Upto K3
		CO 4	acquire knowledge on credit rating agencies.	Upto K3



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		CO 5	gain knowledge about merchant banking services.	Upto K3
21UCPE63	RESEARCH METHODOLOGY	CO 1	understand the meaning of Research and process	Upto K3
		CO 2	gain knowledge in types of research and methods of sampling techniques	Upto K3
		CO 3	acquire knowledge in sources and collections of data	Upto K3
		CO 4	know how to prepare and analyze the statistical testing procedure	Upto K3
		CO 5	prepare research report	Upto K3
21UCPEV1	PROJECT WORK	CO 1	receive job related knowledge	Upto K3
		CO 2	develop skills systematically so that they may learn quickly	Upto K3
		CO 3	align to the work environment	Upto K3
		CO 4	analyze the data and prepare final report	Upto K3
		CO 5	meet the demands of getting jobs in the industry	Upto K3
21UCPS61	ENTREPRENEURSHIP DEVELOPMENT	CO 1	know the basic concepts of Entrepreneurship.	Upto K3
		CO 2	understand and develop the business idea	Upto K3
		CO 3	gain an insight about startup of business	Upto K3



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Contact No.: 87542 09994

87542 08885

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soucollege@gmail.com

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		CO 4	understand the finance offering to the new startup industries.	Upto K3
		CO 5	develop skill on application of Electronic Commerce	Upto K3
B.Sc. COMPUTER SCIENCE				
21UCSC11	PROGRAMMING IN C	CO 1	identify the basic concepts needed for program development	K1
		CO 2	apply the basic concepts and develop program to find solutions for simple problems	K2,K3
		CO 3	design programs to solve complex problems by using suitable control statements	K1,K3
		CO 4	analyze the problem and design efficient program using functions	K1,K3
		CO 5	use array and structure to handle volume of data	K2,K3
21UCSA11	DISCRETE STRUCTURES	CO 1	identify the basic concepts Set theory & Relations	K1
		CO 2	give knowledge about Matrix Algebra	K2,K3
		CO 3	inculcate the idea of Logics using Truth tables	K1,K3
		CO 4	acquire knowledge about the basic concepts	K1,K3



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			of Graph Theory and its applications	
		CO 5	use array and structure to handle volume of data	K2,K3
21UCSS11	DIGITAL COMPUTER FUNDAMENTALS	CO 1	describe the basics of Number Systems, Codes and logic gates	K1
		CO 2	understand the concepts of Boolean Algebra and Karanaugh Maps.	K1,K2
		CO 3	analyze the purpose and applications of Combinational and Sequential Logic	K2,K3
		CO 4	discuss the various types of Combinational and Sequential Logic.	K2,K3
		CO 5	explain the purpose, working principles and timing diagram of Registers and Counters.	K2,K3
21UCSC21	DATA STRUCTURES AND ALGORITHMS	CO 1	identify data structures needed to solve specific problems	K1
		CO 2	analyze the data structures for effective use in problem solving	K2,K3
		CO 3	design and develop efficient algorithms in terms of Space and Time	K3
		CO 4	troubleshoot algorithms	K3
		CO 5	analyze time complexity of algorithms	K2,K3



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21UCSA21	PROBABILITY & STATISTICS	CO 1	identify the basic concepts Central tendencies	K1
		CO 2	acquire knowledge about Measures of Dispersion	K2,K3
		CO 3	inculcate the idea of Curve Fitting, Correlation & Regression	K1,K3
		CO 4	gain knowledge about the basic concepts of Probability & Random variables	K1,K3
		CO 5	gain knowledge about theoretical Discrete & Continuous distributions	K2,K3
21UCSS21	COMPUTER ORGANIZATION & ARCHITECTURE	CO 1	acquire knowledge on registers, instructions , timing and control	K1
		CO 2	understand and explain various types of instruction format, addressing modes, data transfer and manipulation instruction and apply the basic concepts to develop assembler program	K2,K3
		CO 3	identify the memory requirement of a CPU and understands the working principles of parallel processing and pipeline processing	K1,K2
		CO 4	gain knowledge on usage of I/O interfaces and various types of data transfers	K1, K2



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		CO 5	understand various types of memory and its organizations	K1
21UCSC31	OBJECT ORIENTED PROGRAMMING USING C++	CO 1	compare Procedure – oriented programming and the evolution of Object oriented programming	Upto K3
		CO 2	identify basic concepts of OOP, benefits and its applications.	Upto K3
		CO 3	write object oriented programs using classes and objects.	Upto K3
		CO 4	design object oriented programs that can focus on reusability – Inheritance	Upto K3
		CO 5	utilize compile time polymorphism and runtime polymorphism with pointers and virtual functions and File concepts	Upto K3
21UCSCP3	LAB: OBJECT ORIENTED PROGRAMMING USING C++	CO 1	write programs using Object oriented programming paradigm – Encapsulation (Classes and objects), Polymorphism and Inheritance.	Upto K3
		CO 2	apply various features like constructors and destructors, overloading – function and operators	Upto K3
		CO 3	utilize different types of inheritance to suit different applications.	Upto K3



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		CO 4	design to write programs using Object oriented programming paradigm that enables runtime polymorphism using pointers and virtual functions.	Upto K3
		CO 5	apply Object oriented programming paradigm for flat file organization. – Sequential and Random access	Upto K3
21UCSA31	OPERATIONS RESEARCH – I	CO 1	State the history of Operations Research	Upto K3
		CO 2	Describe Linear Programming Problem, Mathematical formulation of LPP and Solve the LPP by using Graphical method	Upto K3
		CO 3	Solve LPP by Simplex method and Big – M method	Upto K3
		CO 4	Illustrate various methods in finding the Initial solution for the Transportation problem and to find Optimum solution using MODI method	Upto K3
		CO 5	Demonstrate and solve Assignment problems and Travelling Salesman problem	Upto K3
21UCSSP1	LAB : LINUX AND SHELL PROGRAMMING	CO 1	write simple programs using formula	Upto K3



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		CO 2	write simple programs using mathematical logics	Upto K3
		CO 3	write programs using one dimension array data structures	Upto K3
		CO 4	write programs using two dimension array data structures	Upto K3
		CO 5	write programs for solving problems using Strings	Upto K3
21UCSN31	OFFICE AUTOMATION	CO 1	gain an awareness about fundamentals of computers	Upto K3
		CO 2	get knowledge about document handling using MS – WORD	Upto K3
		CO 3	create worksheets and graphs using MS – EXCEL	Upto K3
		CO 4	gain knowledge on Slide presentation using MS – POWER POINT	Upto K3
		CO 5	receive knowledge on creating and accessing database using MS – ACCESS	Upto K3
21UCSC41	PROGRAMMING IN JAVA	CO 1	understand the basic concepts of Object oriented programming and java evolution and features	Upto K3
		CO 2	apply the basic concepts of OOP, java	Upto K3



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			features and its applications.	
		CO 3	write object oriented programs using classes and objects and Applet and Graphics programs.	Upto K3
		CO 4	design object oriented programs ,multithreading, exception handling, interface, package and applet program that can focus on java features	Upto K3
		CO 5	utilize compile time polymorphism and runtime polymorphism with overloading and interface and File concepts	Upto K3
21UCSCP4	LAB: JAVA PROGRAMMING	CO 1	write programs using Object oriented programming paradigm – Encapsulation (Classes and objects), Polymorphism and Inheritance.	Upto K3
		CO 2	apply various java features like multithreading, exceptional handling, interface, package, overloading, overriding.	Upto K3
		CO 3	utilize different types of inheritance to suit different applications.	Upto K3
		CO 4	design to write programs using Object oriented programming paradigm that enables runtime polymorphism using interface and applet programming	Upto K3



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		CO 5	apply Object oriented programming paradigm for flat file organization. – Sequential and Random access	Upto K3
21UCSA41	OPERATIONS RESEARCH - II	CO 1	Replacement problems helps us to find the optimum period of replacement of various items	Upto K3
		CO 2	The main aim of an inventory management system is to keep the stock in such a way that it is neither overstock nor under stock.	Upto K3
		CO 3	The objective of a queuing model is to find out the optimum service rate and the number of servers so that the average cost of being in queuing system and the cost of service are minimised.	Upto K3
		CO 4	PERT/CPM is a powerful tool for planning, scheduling and controlling of projects.	Upto K3
		CO 5	Game theory is used extensively in various forms of collective bargaining and negotiation	UptoK3
21UCSSP2	LAB: VISUAL PROGRAMMING	CO 1	write programs using simple controls in VB	Upto K3
		CO 2	write programs to design forms	Upto K3
		CO 3	write programs using data controls	Upto K3



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		CO 4	write programs using animation controls	Upto K3
		CO 5	write programs using data validity controls	Upto K3
21UCSN41	INTRODUCTION TO INTERNET	CO 1	understand the basic concepts of Internet and Create simple web page using physical tags of HTML	Upto K3
		CO 2	present the information in standard form in a web page using structure tags supported by the browsers	Upto K3
		CO 3	design the layout for a web page using browser support tags	Upto K3
		CO 4	develop a web site with the provision to go around all pages	Upto K3
		CO 5	design a website using a theme available in Frame and Forms .	Upto K3
21UCSC51	RELATIONAL DATABASE MANAGEMENT SYSTEMS	CO 1	describe the purpose of Database System, Different database models and Database Architecture	Upto K3
		CO 2	explain the basic concepts of relational data model, entity–relationship model, relational database design, relational algebra, relational calculus	Upto K3
		CO 3	design ER–models to represent simple	Upto K3



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			database application scenarios	
		CO 4	improve the ER–model to relational tables, populate relational database and understand and formulate SQL queries on data	Upto K3
		CO 5	implement ACID properties on database transactions and improve the database design by normalization	Upto K3
21UCSC52	OPERATING SYSTEM CONCEPTS	CO 1	understand the fundamentals of Operating systems and process and processor scheduling concepts	Upto K3
		CO 2	understand the fundamentals and problems of Asynchronous concurrent execution processes	Upto K3
		CO 3	understand the problem of Deadlock and deadlock recovery	Upto K3
		CO 4	understand the fundamentals of real and virtual memory concepts	Upto K3
		CO 5	understand the fundamentals disk organization and file managements	Upto K3
21UCSC53	SOFTWARE ENGINEERING	CO 1	understand the Introduction about Software Engineering and phase–I of software life cycle: Planning a software Project	Upto K3
		CO 2	gain knowledge about the software cost factors and Cost estimation techniques	Upto K3



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		CO 3	know about the Software Requirements Specification (SRS) and various Relational, State oriented notations	Upto K3
		CO 4	understand about the various Design Notations and Design Techniques. Also gain knowledge about Unit testing and Debugging techniques	Upto K3
		CO 5	know about Software Maintenance activities and also gain knowledge about Software Project Management	Upto K3
21UCSCP5	LAB: OPEN SOURCE PROGRAMMING USING PHP & MYSQL	CO 1	design, code and debug in PHP using basic features	Upto K3
		CO 2	design and develop codes using GET and POST request	Upto K3
		CO 3	design and develop programs for state management using session and cookies	Upto K3
		CO 4	design and implement programs that uses various objects, features in PHP	Upto K3
		CO 5	design and develop applications that connects with the database	Upto K3
21UCSE51	DATA COMMUNICATION AND	CO 1	understand network communication using the layered concept, Open System Interconnect (OSI) and the Internet Model	Upto K3



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	COMPUTER NETWORKS		and understand various types of transmission media, network devices; and parameters of evaluation of performance for each media and device	
		CO 2	understand the concept of flow control, error control and LAN protocols; to explain the design of, and algorithms used in, the physical, data link layers.	Upto K3
		CO 3	understand the concept of Network Layer function, routing algorithms and datagram service	Upto K3
		CO 4	understand the functioning of transport layer, TCP protocol, connection establishment, congestion control and transport layer protocols	Upto K3
		CO 5	understand the fundamental concept of network security, model of network security, security services and cryptography	Upto K3
21UCSE52	PHP PROGRAMMING	CO 1	understand the basic concepts of PHP and using variables, operators, data types and creating scripts	Upto K3
		CO 2	identify the conditional control statements in PHP Working with String and Numeric Functions	Upto K3



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		CO 3	understand the concepts of Data in Arrays and Processing Arrays with Loops and Iterations Working with Dates and Times	Upto K3
		CO 4	describe the procedures for Working with Files and Directories in PHP	Upto K3
		CO 5	understand the basics of using MySQL ,Simple XML and DOM Extension	Upto K3
21UCSE53	PYTHON PROGRAMMING	CO 1	learn the syntax and semantics of Python Programming Language.	Upto K3
		CO 2	write Python functions to facilitate code reuse and manipulate strings.	Upto K3
		CO 3	illustrate the process of structuring the data using lists, tuples and dictionaries.	Upto K3
		CO 4	demonstrate the use of built-in functions to navigate the file system.	Upto K3
		CO 5	appraise the need for working on web scraping.	Upto K3
21UCSE54	ARTIFICIAL INTELLIGENCE	CO 1	understand what an AI technique is and define AI problems as state space search problem	Upto K3
		CO 2	learn Heuristic search techniques: Generate – and – test – Hill climbing – Best-first search – Problem reduction – Constraint	Upto K3



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			satisfaction – Means–ends analysis	
		CO 3	learn to represent knowledge using predicate logic	Upto K3
		CO 4	learn to solve AI problems using Resolution. Also learn to represent knowledge using rules	Upto K3
		CO 5	learn to solve Gaming problems using minimax procedure and learn to identify the characteristics of an expert system	Upto K3
21UCSS51	QUANTITATIVE APTITUDE	CO 1	solve problems on Numbers, HCF & LCM of numbers and Decimal Fractions.	Upto K3
		CO 2	solve problems on Square roots & Cube roots, Average, Problems on Numbers, Problems on Ages.	Upto K3
		CO 3	solve problems on Percentage, Profit & Loss , Ratio & Proportion.	Upto K3
		CO 4	solve problems on Time & Work, Time & Distance	Upto K3
		CO 5	solve problems on Simple Interest, Compound Interest, Area , Volume & Surface areas.	Upto K3
21UCSSP3	LAB : SQL AND PLSQL	CO 1	demonstrate DDL,DML and DCL operations in Oracle–SQL. Managing Databases and Tables, Inserting, Updating, and Deleting	Upto K3



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			Data, Querying with SQL SELECT commands.	
		CO 2	implement SQL queries using Aggregate functions, set operations and time, date and string functions by multiple tables.	Upto K3
		CO 3	utilize the basic data types, Functions, Arrays, Strings, Date and Times, and Design to write PL/SQL programs using decision making and looping, functions, arrays and strings.	Upto K3
		CO 4	design to write programs using triggers and procedures.	Upto K3
		CO 5	write a PL/SQL Coding for packages.	Upto K3
21UCSC61	DATA MINING AND WAREHOUSING	CO 1	understand the data mining concepts regarding types of data, knowledge, techniques and applications	Upto K3
		CO 2	understand the data warehousing concepts, data cube, OLAP & OLTP and Attribute–Oriented Induction	Upto K3
		CO 3	gain knowledge about Association rule mining algorithms such as Apriori, FP–Growth for extracting knowledge from large data bases	Upto K3
		CO 4	learn the classification techniques using	Upto K3



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			various classification algorithms such as decision tree induction, Bayesian for extracting knowledge from large data bases	
		CO 5	learn the clustering techniques using various clustering algorithms such as k-means, k-medoids, etc., for extracting knowledge from large data bases. Also learn about various data mining applications	Upto K3
21UCSC62	COMPUTER GRAPHICS	CO 1	understand the fundamentals of computer graphics, display devices, input and output devices	Upto K3
		CO 2	understand the line, circle and ellipse generations	Upto K3
		CO 3	understand the attributes of line, circle and ellipse commands	Upto K3
		CO 4	understand the fundamentals of two dimensional geometric transformations	Upto K3
		CO 5	understand the fundamentals of two dimensional viewing transformations	Upto K3
21UCSCP6	LAB: PYTHON PROGRAMMING	CO 1	learn simple programs using formulas	Upto K3
		CO 2	learn simple programs to solve mathematical problems	Upto K3



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		CO 3	learn python programs to play simple games	Upto K3
		CO 4	learn python programs to solve simple problems related to Computer graphics	Upto K3
		CO 5	learn python programs to solve simple problems related to Data Science	Upto K3
21UCSCP7	LAB: WEB DESIGN	CO 1	develop static web page with various text formatting elements, list, tables ,image, marquee using HTML	Upto K3
		CO 2	develop web site with multiple web pages using Frames, links using HTML, CSS	Upto K3
		CO 3	develop interactive web page using Form Elements using HTML	Upto K3
		CO 4	develop dynamic web pages to implement basic logics using Java Script	Upto K3
		CO 5	develop dynamic web pages with client side validation using Java Script	Upto K3
21UCSE61	WEB TECHNOLOGY	CO 1	define and describe about internet and various internet terminologies, protocols and web concepts	Upto K3
		CO 2	explain SGML, understands HTML and able to write programs using HTML	Upto K3
		CO 3	define and explain Client Side Scripting, to write programs using Java Script	Upto K3



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		CO 4	understand the fundamentals of Server Side Scripting, Web Server programming and implementation using Servlets	Upto K3
		CO 5	understand the technology of developing dynamic web pages using JSP and explores the programming features of JSP	Upto K3
21UCSE62	CLOUD COMPUTING	CO 1	understand the history and Basic knowledge of Cloud computing.	Upto K3
		CO 2	understand different architectures of cloud computing such as Software as a Service (SaaS) – Infrastructure as a Service (IaaS) – Platform as a Service (PaaS)	Upto K3
		CO 3	describe about applications of cloud computing by using case studies	Upto K3
		CO 4	understand about cloud data centers and CRM management	Upto K3
		CO 5	understand security threats and solution in clouds	Upto K3
21UCSE63	MACHINE LEARNING USING PYTHON	CO 1	learn the Python libraries and tools	Upto K3
		CO 2	learn Supervised Machine Learning Algorithms	Upto K3
		CO 3	understand Unsupervised Learning and preprocessing	Upto K3



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Contact No.: 87542 09994

87542 08885

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Course Code	Name of the Course	CO	CO Statement	Knowledge level (According to Blooms taxonomy)
		CO 4	get knowledge on Data and Engineering Features	Upto K3
		CO 5	understand Model Evaluation and Improvement - Cross-Validation - Grid Search - Evaluation Metrics and Scoring	Upto K3
21UCSE64	CYBER SECURITY	CO 1	understand the concept of Cyber security and issues and challenges associated with it.	Upto K3
		CO 2	understand the cyber crimes, their nature, legal remedies and as to how report the crimes through available platforms and procedures	Upto K3
		CO 3	appreciate various privacy and security concerns on online Social media and understand the reporting procedure of inappropriate content, underlying legal aspects and best practices for the use of Social media platforms	Upto K3
		CO 4	understand the basic concepts related to E-Commerce and digital payments. They will become familiar with various digital payment modes and related cyber security aspects, RBI guidelines and preventive measures against digital payment frauds.	Upto K3



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Course Code	Name of the Course	CO	CO Statement	Knowledge level (According to Blooms taxonomy)
		CO 5	understand the basic security aspects related to Computer and Mobiles. They will be able to use basic tools and technologies to protect their devices	Upto K3
21UCSEV1	PROJECT & VIVA-VOCE	CO 1	learn to do Planning and write software requirements specifications of a software project	Upto K3
		CO 2	learn to do architectural & detailed design of a software project	Upto K3
		CO 3	learn to write the source code of the software project	Upto K3
		CO 4	learn to do unit testing, debugging, Integration & Acceptance testing of the software project	Upto K3
		CO 5	learn to write the report of a software project	Upto K3
B.Sc. CHEMISTRY				
21UCYC11	GENERAL CHEMISTRY-I	CO 1	understand atom on the basis of classical mechanics	K2
		CO 2	understand the atomic properties	K2,K3
		CO 3	gain knowledge of bonding in molecules	K1, K2
		CO 4	remember the various chemical interactions in molecules through bonding concepts.	K1



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		CO 5	gain knowledge about the acids- bases, the oxidation states and balance redox reactions	K1,K4
21UCYC12	GENERAL CHEMISTRY- II	CO 1	know the basics of organic chemistry	K2
		CO 2	understand the concepts of organic reactions	K2,K3
		CO 3	understand the extraction of metals and its ores	K2, K6
		CO 4	remember the properties of hydrogen and hydrides	K1
		CO 5	analyze the nature of non-aqueous solvents	K1,K4
21UBYA11	Plant Diversity and Plant Biotechnology	CO 1	recognize and expose the diversity and complexity of plant life forms	K1
		CO 2	understand clearly about the life forms based on their morphology and anatomy	K2
		CO 3	gain the glimpse of economic importance the lower plants	K3
		CO 4	explain the principles and applications of tissue culture	K3
		CO 5	get knowledge about the Mass multiply of mushrooms and biofertilizers and their benefits	K3
21UBYAP1	Plant Diversity, Applied Botany, Taxonomy,	CO 1	identify the various groups of plants based on their morphology	K1



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Course Code	Name of the Course	CO	CO Statement	Knowledge level (According to Blooms taxonomy)
	Embryology of Angiosperms & Plant Physiology			
		CO 2	distinguish the life forms at generic level based on anatomical variations	K2
		CO 3	be equipped with micro preparation of various groups of plants	K3
		CO 4	explain the principles, importance and applications of plants	K3
21UCYC21	INORGANIC CHEMISTRY - I	CO 1	understand the basic knowledge of alkali metals	K2
		CO 2	study the characteristics of alkaline earth metals	K2,K3
		CO 3	analyze the Group 13 elements & its compounds	K2, K6
		CO 4	summarize the characteristics of Group 14 elements	K1 ,K4
		CO 5	understand the basic ideas of Group 15 elements	K1,K4
21UCYC22	PHYSICAL CHEMISTRY - I	CO 1	understand the gases law and its applications	K2
		CO 2	interpret the knowledge interaction of	K2,K3



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			liquids	
		CO 3	understand the various types of crystals.	K2, K6
		CO 4	gain the knowledge of catalysis and adsorption	K1
		CO 5	acquire the basic knowledge of colloids.	K1,K4
21UCYCP1	Volumetric Analysis	CO		
21UBYA21	Taxonomy, Embryology of Angiosperms & Plant Physiology	CO 1	identify angiosperm plants based on their morphology	K1
		CO 2	recognize the importance of Plant Resources	K2
		CO 3	explain the fundamentals of plant embryology	K3
		CO 4	study the structure and development of microsporangium and mega sporangium	K3
		CO 5	know the value of the basic physiological process and metabolic functions in plants.	K3
21UBYAP1	Plant Diversity, Applied Botany, Taxonomy, Embryology of Angiosperms & Plant Physiology	CO 1	identify the various groups of plants based on their morphology	K1



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		CO 2	distinguish the life forms at generic level based on anatomical variations	K2
		CO 3	be equipped with micro preparation of various groups of plants	K3
		CO 4	explain the principles, importance and applications of plants	K3
21UCYC31	ORGANIC CHEMISTRY – I	CO 1	explain the chemistry of alkanes, cycloalkanes and conformations of cycloalkanes	Upto K3
		CO 2	spell the chemistry of alkenes, alkadienes, alkynes	Upto K3
		CO 3	apply the rules of aromatic compounds	Upto K3
		CO 4	explain the preparation and chemical properties of aliphatic and aromatic halogen compounds	Upto K3
		CO 5	comprehend the preparation and properties of alcohols, phenols and benzyl alcohol	Upto K3
21UCYCP2	INORGANIC QUALITATIVE ANALYSIS	CO 1	analyze the acid radicals present in any given inorganic salt mixture	Upto K3
		CO 2	eliminate the interfering acid radicals	Upto K3
		CO 3	identify the basic radicals and its groups in	Upto K3



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Course Code	Name of the Course	CO	CO Statement	Knowledge level (According to Blooms taxonomy)
			the mixture of salt.	
		CO 4	analyze the basic radical systematically	Upto K3
		CO 5	develop their qualitative analytical skill of any given inorganic salt mixtures	Upto K3
21UPSA31	PROPERTIES OF MATTER, THERMAL PHYSICS, AND OPTICS	CO 1	understand the basic concepts of the elastic behavior of solids and the bending behavior of beams and determine the expressions for young's modulus and rigidity modulus.	Upto K3
		CO 2	explain the physics of the flow of liquid in terms of viscosity, derive the equation of Bernoulli's theorem in hydrodynamics and its applications.	Upto K3
		CO 3	identify modes of heat transfer in solids, liquids, and gases and explain laws governing radiations.	Upto K3
		CO 4	define fundamental laws of thermodynamics and explain their application to thermodynamic processes – Carnot cycle, entropy change in a reversible and irreversible process.	Upto K3
		CO 5	describe the phenomena in wave optics like interference, diffraction, and polarization, identify the differences in them and demonstrate the experiments based on these	Upto K3



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			phenomena.	
21UCYS31	LABORATORY TECHNIQUES	CO 1	explain the knowledge about lab safety methods include safe handling of toxic and poisonous chemicals and provide knowledge about first aid in case of small lab accidents.	Upto K3
		CO 2	understand and analyse the acid radicals and eliminate the interfering acid radicals	Upto K3
		CO 3	apply acidimetric, alkali metric and redox method for the quantitative volumetric estimation.	Upto K3
		CO 4	remember application of chromatographic techniques	Upto K3
		CO 5	do the lab techniques on purification methods such as sublimation, distillation and crystallization	Upto K3
21UCYN31	CHEMISTRY FOR HUMAN WELFARE – I	CO 1	learn the sources & classification of types of water, acidity, alkalinity, BOD, COD, RO method & sewage treatment.	Upto K3
		CO 2	get an awareness of food, carbohydrates, proteins, vitamins, milk & milk products.	Upto K3
		CO 3	study the different kinds of fertilizers, insecticides & pesticides.	Upto K3



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		CO 4	gain the basic knowledge of polymers, rubbers & resins	Upto K3
		CO 5	understand the preparation of various household products methods and their ill effects.	Upto K3
21UCYC41	INORGANIC CHEMISTRY – II	CO 1	gain the importance of group 16 elements in industrial purpose	Upto K3
		CO 2	understand the behaviour of halogen compounds with other elements	Upto K3
		CO 3	realize the significance of noble gases in chemistry	Upto K3
		CO 4	know the numerous properties of d-block elements in chemistry	Upto K3
		CO 5	understand the preparation and properties of f-block elements.	Upto K3
21UCYCP2	INORGANIC QUALITATIVE ANALYSIS	CO 1	analyze the acid radicals present in any given inorganic salt mixture	Upto K3
		CO 2	eliminate the interfering acid radicals	Upto K3
		CO 3	identify the basic radicals and its groups in the mixture of salt.	Upto K3
		CO 4	analyze the basic radical systematically	Upto K3
		CO 5	develop their qualitative analytical skill of any given inorganic salt mixtures	Upto K3



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21UPSA41/ 21UPSA21	ELECTRICITY, ELECTRONICS, ATOMIC AND NUCLEAR PHYSICS	CO 1	gain the knowledge of different laws of electrostatics.	Upto K3
		CO 2	understand the concepts and laws of current electricity and demonstrate the experiment to determine the resistivity of the material of wire and calibrate voltmeter and ammeter.	Upto K3
		CO 3	distinguish moving coil galvanometers dead beat ballistic and demonstrate the experiments for voltage and current sensitiveness	Upto K3
		CO 4	understand the basics of diodes and transistors and solve the problems in the binary number system and analyze the logic circuits	Upto K3
		CO 5	acquire the basic knowledge in atomic and nuclear physics	Upto K3
21UCYS41	DAIRY CHEMISTRY	CO 1	understand the physical properties of milk and its composition	Upto K3
		CO 2	infer the various processes of milk	Upto K3
		CO 3	know about the milk products	Upto K3



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		CO 4	recognize the various types of milks	Upto K3
		CO 5	understand the ice-cream products and milk products	Upto K3
21UCYN41	CHEMISTRY FOR HUMAN WELFARE –II	CO 1	understand the basic principle and applications of fireworks, pyrotechny and explosives.	Upto K3
		CO 2	get exposure about the basic knowledge of cement, glass, refractories & abrasives.	Upto K3
		CO 3	learn the basic methods for the manufacture of paint, pigments, varnishes, enamels and lacquers.	Upto K3
		CO 4	study the basic ideas of drugs and their applications	Upto K3
		CO 5	know the simple methods for the preparation of various cosmetics	Upto K3
21UCYC51	ORGANIC CHEMISTRY – II	CO 1	explain the preparation and mechanism of aliphatic aldehydes & ketones.	Upto K3
		CO 2	spell the chemistry of aromatic aldehydes and ketones.	Upto K3
		CO 3	explain the preparation and chemical properties of aliphatic and aromatic carboxylic acids.	Upto K3
		CO 4	comprehend the preparation and properties	Upto K3



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			of substituted carboxylic acids, aromatic sulphonic acids and dicarboxylic acids	
		CO 5	identify the stereo chemical aspects of organic molecules	Upto K3
21UCYC52	PHYSICAL CHEMISTRY – II	CO 1	characterize the chemical state of a system and predicting equilibrium relations of the phases.	Upto K3
		CO 2	understand the flow of energy in chemical processes.	Upto K3
		CO 3	know the concept of heat engine, a study about the relations towards entropy, free energy changes and chemical potential.	Upto K3
		CO 4	calculate the concentration of reactants for maximizing products, determine the molecular weight of chemical substances using colligative properties.	Upto K3
		CO 5	gain knowledge about kinetics and its theories and can solve the problems related to kinetics	Upto K3
21UCYCP3	PHYSICAL CHEMISTRY EXPERIMENTS	CO	recall the principles of various physical chemistry experiments. To systematically perform the procedure relating to electrical and non-electrical experiments. To calculate and process the measured values obtained	Upto K3



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			from the experiments.	
21UCYCP4	ORGANIC ESTIMATION AND ORGANIC PREPARATION	CO	understand the principles behind the estimations of phenol, aniline & glycine iodometrically. To interpret a suitable method for the preparation of organic compounds.	Upto K3
21UCYE51	COORDINATION CHEMISTRY, BIO-INORGANIC CHEMISTRY AND ORGANOMETALLIC COMPOUNDS	CO 1	gain the importance of basic idea of coordination chemistry	Upto K3
		CO 2	understand the properties of metal complexes	Upto K3
		CO 3	realize the significance of bioinorganic chemistry	Upto K3
		CO 4	know the function of hemoglobin, myoglobin and chlorophyll	Upto K3
		CO 5	understand the preparation and properties of organometallic compounds.	Upto K3
21UCYE52	CHEMISTRY OF MATERIALS	CO 1	gain the knowledge about solid matters	Upto K3
		CO 2	learn the preparative and characterized	Upto K3



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			technique for solid materials	
		CO 3	understand the knowledge about electrical and optical properties.	Upto K3
		CO 4	acquire the idea about the magnetic properties.	Upto K3
		CO 5	study about the special materials.	Upto K3
21UCYE53	FORENSIC CHEMISTRY	CO 1	learn the collection of samples and preservation of evidences.	Upto K3
		CO 2	understand the examination and identification of drugs	Upto K3
		CO 3	gain the knowledge of finger print and forensic serology.	Upto K3
		CO 4	identify the types of crime detection	Upto K3
		CO 5	find the forgery in various fields.	Upto K3
21UCYE54	ANALYTICAL CHEMISTRY AND COMPUTER APPLICATIONS IN CHEMISTRY	CO 1	interpret the data and errors in chemistry.	Upto K3
		CO 2	understand the applications of colorimetric techniques.	Upto K3
		CO 3	get the knowledge of precipitation and	Upto K3



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			purification using gravimetric techniques.	
		CO 4	understand the role of polarimetric techniques and radioactive tracers.	Upto K3
		CO 5	demonstrate the steps involved in 'C' program and 'C' programs in Chemistry using C language.	Upto K3
21UCYE55	MEDICINAL CHEMISTRY	CO 1	tell the theory of pharmacokinetics model	Upto K3
		CO 2	summarize the theory of drug design and discovery	Upto K3
		CO 3	explain the relationship between physical parameters and drug activity	Upto K3
		CO 4	study the psycho active and cardio vascular drug	Upto K3
		CO 5	apply the synthetic methodologies of various types of drugs	Upto K3
21UCYE56	POLYMER CHEMISTRY	CO 1	understand polymerization – forms of polymers – co-polymerization.	Upto K3
		CO 2	gain knowledge the types of polymers – addition	Upto K3
		CO 3	gain knowledge the types of polymers– condensation	Upto K3
		CO 4	understand the properties of co-polymerization	Upto K3



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		CO 5	learn about the applications of polymers	Upto K3
21UCYS51	APPLIED ORGANIC SPECTROSCOPY	CO 1	recognize the significance of the principles, laws, approximations, etc., to understand the transitions in atoms and molecules.	Upto K3
		CO 2	learn the significance of absorption laws and the influence of UV visible to organic molecules	Upto K3
		CO 3	compare the spectral pattern and evaluate the parameters essential for structural determinations.	Upto K3
		CO 4	analyze scientifically the various spectra and identify the appropriate structure of chemical compounds.	Upto K3
		CO 5	understand the various aspects in NMR spectroscopy	Upto K3
21UCYS52	APPLIED CHEMISTRY	CO 1	understand the role of fertilizers, pesticides and insecticide	Upto K3
		CO 2	get the knowledge of Match Industry, Pyrotechnology & Explosives	Upto K3
		CO 3	relate the cement, silicate and zeolites	Upto K3
		CO 4	understand the concepts of manufacture of paints and pigments	Upto K3
		CO 5	construct the basic concepts of rubber and	Upto K3



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			designing new type of polymer products.	
21UCYC61	ORGANIC CHEMISTRY – III	CO 1	explain the preparation, properties of aliphatic and aromatic nature of nitrogen containing compounds.	Upto K3
		CO 2	discuss the preparation and properties of polynuclear hydrocarbons.	Upto K3
		CO 3	spell the chemistry of heterocyclic compounds	Upto K3
		CO 4	comprehend the preparation and synthetic applications of organometallic & active methylene compounds	Upto K3
		CO 5	analyse the mechanism of rearrangement reactions and synthetic importance of reagents	Upto K3
21UCYC62	PHYSICAL CHEMISTRY –III	CO 1	relate electronic structure, symmetry of molecules to their physical properties and reaction mechanism.	Upto K3
		CO 2	understand the behaviour of ions in solutions through various theories.	Upto K3
		CO 3	apply the electrochemical cells in chemical analysis	Upto K3
		CO 4	understand the photochemical transformations that occur through photochemical processes.	Upto K3



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		CO 5	know the concepts in various electromagnetic spectrum and apply them in structural analysis.	Upto K3
21UCYCP5	GRAVIMETRIC ESTIMATION AND INORGANIC COMPLEX PREPARATION	CO	estimate the barium, lead and calcium by gravimetric methods and prepare the coordination number 4 & 6 metal complexes.	Upto K3
21UCYCP6	ORGANIC ANALYSIS	CO	detect elements in organic substances and analyze the various functional groups and preparation of their derivatives.	Upto K3
21UCYE61	CHEMISTRY OF BIOMOLECULES	CO 1	understand the basic concepts & synthesis of carbohydrates	Upto K3
		CO 2	construct the structure, synthesis of alkaloids and biological role of vitamins	Upto K3
		CO 3	explain the classification, isolation, structure and extraction of terpenes and lipids.	Upto K3
		CO 4	integrate and assess the different methods of preparation of amino acids and gain advanced knowledge and understanding in aspect of proteins.	Upto K3
		CO 5	illustrate the structure & applications of steroids, hormones & nucleic acids and their functions in the metabolism of living	Upto K3



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			organisms.	
21UCYE62	BATTERY AND FUEL CELLS	CO 1	compare and classify the various energy storage systems	Upto K3
		CO 2	analyze concepts of thermodynamics and kinetics involved in electrochemical reactions	Upto K3
		CO 3	develop components and processes of various battery systems	Upto K3
		CO 4	identify the recent developments in battery systems including electrode and electrolyte materials	Upto K3
		CO 5	utilize fuel cells and E-vehicle system	Upto K3
21UCYE63	FOOD CHEMISTRY	CO 1	explain the basic group of foods and constituents carbohydrates	Upto K3
		CO 2	summarize the different types of food adulterants.	Upto K3
		CO 3	illustrate the food spoilage – food preservation.	Upto K3
		CO 4	construct the classification, functions and deficiencies of vitamins.	Upto K3
		CO 5	understand the mineral elements in foods.	Upto K3
21UCYS61	PHARMACEUTICAL & CLINICAL CHEMISTRY	CO 1	gain the knowledge towards pharmaceutical terminologies, drugs and their importance.	Upto K3



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Contact No.: 87542 09994

87542 08885

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Course Code	Name of the Course	CO	CO Statement	Knowledge level (According to Blooms taxonomy)
		CO 2	know the application of chemical inorganic and organic substances in pharmaceutical field.	Upto K3
		CO 3	realize the characteristic and applications of various anaesthetics.	Upto K3
		CO 4	know the elementary idea about the drugs: Antipyretics, Analgesics, anti-inflammatory agents, Sulphonamide, Antimalarials and Arsenical drugs.	Upto K3
		CO 5	gain the knowledge blood composition, grouping and Rh factor and its clinical analysis and acquire the knowledge about urine clinical analysis.	Upto K3
21UCYS62	GREEN CHEMISTRY AND NANO CHEMISTRY	CO 1	gain the importance of basic idea of principle of green chemistry	Upto K3
		CO 2	understand the role of green solvents	Upto K3
		CO 3	realize the significance of green approach in synthesis of compounds	Upto K3
		CO 4	know the basic idea of nanochemistry	Upto K3
		CO 5	understand the application of nanoparticles	Upto K3
B.Sc. MATHEMATICS				
21UMSC11	DIFFERENTIAL	CO 1	calculate the differentiation of any type of functions.	K1, K2



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	CALCULUS			
		CO 2	describe the concepts of subtangent and subnormal and length of arc.	K1,K2
		CO 3	find the radius of curvature and pedal equation to the given curves.	K1, K3
		CO 4	calculate the evolutes and the envelopes of the given curves.	K2, K3
		CO 5	find the maximum and minimum values to the functions and Jacobian	K1, K3
21UMSC12	THEORY OF EQUATIONS	CO 1	understand the methods of forming equations	K1, K2
		CO 2	understand the symmetric functions of roots and Newton's theorem.	K1, K3
		CO 3	solve the reciprocal equations	K3
		CO 4	discuss the increase or decrease the roots.	K2
		CO 5	find the roots using Newton's, Horner's, Cardon's and Ferrari methods	K3
21UMSS11	ARITHMETIC ABILITY	CO 1	solve various types of solving problem involving numbers	K2
		CO 2	understand the averages	K3
		CO 3	find the areas of various geometrical shapes.	K2,K3
		CO 4	get the knowledge about the time and distance.	K2, K3



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		CO 5	solve the problems on trains and logarithms	K1,K3
21UMSA11	ANCILLARY MATHEMATICS –I	CO 1	discuss the measure of degree of association or correlation and rank correlation between the two sets of values.	K2, K3
		CO 2	find the fourier series expansions of various functions and half range fourier series.	K1, K2
		CO 3	define various types of index numbers and the application of index numbers in practical life like fixing of wages, cost of living etc.,	K1, K3
		CO 4	define various matrices and find the rank of the matrix and the consistency of simultaneous linear equations.	K1, K2
		CO 5	find the inverse of a square matrix using Cayley-Hamilton theorem and compute its Eigen values and Eigen vectors.	K1, K3
21UMSC21	INTEGRAL CALCULUS	CO 1	find the reduction formula for various functions	K1,K2
		CO 2	evaluate the double integral problems	K3
		CO 3	evaluate the triple integrals	K2,K3
		CO 4	do the problems using beta and gamma functions.	K2
		CO 5	solve problems on Fourier series	K1,K3
21UMSC22	ANALYTICAL	CO 1	find angle and distance between two planes,	K1, K2



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	GEOMETRY OF THREE DIMENSIONS		lengths of perpendicular, bisecting planes	
		CO 2	learn the Symmetric form of Straight line ,image of a point about a plane, image of line about a plane	K2, K3
		CO 3	understand the Plane and straight line, angle between a plane and a straight line, coplanar lines.	K2
		CO 4	evaluate the Shortest Distance between two lines, skew lines, intersection of four planes	K1, K3
		CO 5	know about the Sphere, equation of the sphere, equation of the tangent plane, orthogonal sphere.	K1, K2, K3
21UMSS21	VECTOR CALCULUS	CO 1	understand the concepts of differentiation of vectors.	K1, K2
		CO 2	understand the concepts of gradient, divergence and curl and its properties.	K2, K3
		CO 3	discuss solenoidal and irrotational of vector function.	K2
		CO 4	evaluate the integral of a vector valued function using line and surface integrals.	K2, K3



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		CO 5	understand the concepts of Green's and Gauss divergence theorem.	K3
21UMSA21	ANCILLARY MATHEMATICS-II	CO 1	formulate a linear programming problem mathematically and write it in standard form.	K1, K2
		CO 2	acquire the knowledge of various types of solutions of LPP.	K1,K2, K3
		CO 3	discuss various methods of solving a LPP.	K1, K3
		CO 4	compute the initial basic feasible solution of a transportation problem using various methods and solving a transportation problem.	K1, K3
		CO 5	know about assignment problems and find the optimal solution by Hungarian method.	K1, K3
21UMSC31	MECHANICS	CO 1	prove various law of forces.	Upto K3
		CO 2	prove theorems on resolved parts.	Upto K3
		CO 3	find the resultant of two like and unlike parallel forces and to define moment of a force.	Upto K3
		CO 4	explain about path of a projectile and solve various problems relating projectiles.	Upto K3
		CO 5	discuss simple harmonic motion.	Upto K3



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21UMSC32	NUMERICAL ANALYSIS	CO 1	solve algebraic ,transcendental and simultaneous equations using different method	Upto K3
		CO 2	find the missing data using the concept of finite differences and Gauss formula	Upto K3
		CO 3	solve problems using Gauss, Strilings, Bessels and Lagranges method	Upto K3
		CO 4	be familiar with the concept of numerical differentiation and finding maxima and minima of the problem	Upto K3
		CO 5	solve the numerical integration problem using different methods	Upto K3
21UMSA31	GRAPH THEORY AND LAPLACE TRANSFORM	CO 1	give examples of various types of graphs.	Upto K3
		CO 2	prove theorems using concept of coverings and degree sequences.	Upto K3
		CO 3	define connectedness	Upto K3
		CO 4	find solutions of Laplace transformations problems by applying suitable results.	Upto K3
		CO 5	find solutions of Inverse Laplace transformations problems by applying suitable results.	Upto K3



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21UMSN31	FUNDAMENTALS OF MATHEMATICS – I	CO 1	apply the basic properties and enable to solve the problem	Upto K3
		CO 2	apply the formula and understand the methods of solving the problem	Upto K3
		CO 3	use definitions and properties of solving the problems	Upto K3
		CO 4	use basic set theory definitions and enable to solve the problems	Upto K3
		CO 5	apply the formula and forming the quadratic equations and find its solutions	Upto K3
21UMSC41	DIFFERENTIAL EQUATIONS	CO 1	understand the concept of exact differential equations, Equations solvable for p, y, x, Clairaut's form	Upto K3
		CO 2	gain knowledge about linear equations with constant coefficients and variable coefficients	Upto K3
		CO 3	understand simultaneous differential equations and linear equations of the second order	Upto K3
		CO 4	understand derivation of partial differential equations and Lagrange's method of solving linear equations.	Upto K3



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		CO 5	gain knowledge about standard forms – up to Clairaut's form.	Upto K3
21UMSC42	SEQUENCE AND SERIES	CO 1	solve problems based on sequences	Upto K3
		CO 2	prove theorems using concept of algebra of limits	Upto K3
		CO 3	define sub sequences and Cauchy sequences	Upto K3
		CO 4	find solution for problem by applying suitable test.	Upto K3
		CO 5	test the convergence of series	Upto K3
21UMSA41	PROGRAMMING IN C – THEORY	CO 1	know the data types and syntax of operators and expressions.	Upto K3
		CO 2	write simple programmes using branching and i/o statements	Upto K3
		CO 3	write the programmes using looping and arrays	Upto K3
		CO 4	know the concepts of strings and functions.	Upto K3
		CO 5	know the concepts of structures	Upto K3
21UMSN41	FUNDAMENTALS OF MATHEMATICS – II	CO 1	solve problems involving HCF & LCM and their relationships	Upto K3
		CO 2	find solutions for problems on numbers	Upto K3
		CO 3	determine means and extremes, distinguish between ratio & proportion	Upto K3



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		CO 4	compute the IBFS of a transportation problem using various methods	Upto K3
		CO 5	find the optimal solution by Hungarian method	Upto K3
21UMSC51	MODERN ALGEBRA	CO 1	learn about subgroups with examples, center, normalize, permutation groups, symmetric groups of order n.	Upto K3
		CO 2	discuss cyclic groups, order of an element, cosets and the proof of Lagrange's theorem.	Upto K3
		CO 3	deal with normal subgroups, quotient groups and homomorphisms.	Upto K3
		CO 4	gain knowledge about isomorphisms, rings, its definition and examples.	Upto K3
		CO 5	learn about the elementary properties of rings, isomorphisms and types of rings.	Upto K3
21UMSC52	REAL ANALYSIS	CO 1	prove theorems using relevant concepts	Upto K3
		CO 2	give examples and solve problems	Upto K3
		CO 3	apply definition to prove theorem	Upto K3
		CO 4	discuss continuity and connectedness	Upto K3
		CO 5	derive results using various concept of compactness	Upto K3
21UMSC53	OBJECT ORIENTED PROGRAMMING IN C++	CO 1	describe the procedural and object oriented paradigm with concepts of expressions and	Upto K3



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			control structures	
		CO 2	understand the concepts of functions, classes and objects	Upto K3
		CO 3	understand dynamic memory management techniques using constructors and destructors	Upto K3
		CO 4	describe the concept of function overloading and type conversion	Upto K3
		CO 5	classify inheritance with the understanding of early and late binding	Upto K3
21UMSE51	STATISTICS – I	CO 1	recognise, describe and calculate the measure of the spread of data : mean, variance, s, d and range	Upto K3
		CO 2	find the inter – relation between two or more phenomenon with the help of curve fitting	Upto K3
		CO 3	find the inter – relation between two or more phenomenon with the help of correlation and regression	Upto K3
		CO 4	make a bridge between elementary statistical tool and probability theory	Upto K3
		CO 5	explain the mathematical expectation and moments and solve discrete and continuous random variables.	Upto K3
21UMSE52	OPERATIONS	CO 1	know the historical development of OR,	Upto K3



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	RESEARCH – I		models in OR, scientific method, limitations and features in OR	
		CO 2	understand the mathematical formulation of LPP, solving the graphical solution and simplex method (simple problems).	Upto K3
		CO 3	understand the Big – M method of a LPP, Two phase simplex method and duality problems.	Upto K3
		CO 4	find an IBFS of transportation problem using various methods	Upto K3
		CO 5	find the optimal solution by Hungarian method for solving Assignment problem.	Upto K3
21UMSE53	NUMBER THEORY	CO 1	discuss the Divisibility of numbers, Prime and composite numbers, Euclid's theorem and Unique Factorisation theorem	Upto K3
		CO 2	understand the theorem of Arithmetic, representation of an integer and Arithmetic functions	Upto K3
		CO 3	know perfect numbers, Euclid's theorem, Euler's function and learn various theorems	Upto K3
		CO 4	understand Greatest integer functions, Mobius function and Mobius Inversion Formula	Upto K3
		CO 5	analyse Congruences, Residues, Residue	Upto K3



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			classes, complete residue system, Reduced residue system, Linear congruence, Chinese Remainder theorem.	
21UMSE54	BOOLEAN ALGEBRA AND LOGIC	CO 1	express the verbal sentence in symbolic form and determine the truth table of the statement.	Upto K3
		CO 2	determine the validity of the argument.	Upto K3
		CO 3	determine the truth value of the statement and to negate the statement.	Upto K3
		CO 4	write the dual of the Boolean equation and finding the number of sub algebras.	Upto K3
		CO 5	express the Boolean expression as a sum of product and finding fundamental product in Karnaugh map.	Upto K3
21UMSC61	LINEAR ALGEBRA	CO 1	explain the base concept of vector space and properties of vectors on the base and demonstrate understanding of the concepts of vector space and subspace.	Upto K3
		CO 2	demonstrate understanding of linear independence, span, and basis and apply principles of matrix algebra to linear transformations.	Upto K3
		CO 3	demonstrate understanding of inner products and associated norms	Upto K3



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		CO 4	carry out matrix operations, including inverses and determinants and determine eigenvalues and eigenvectors and solve eigenvalue problems.	Upto K3
		CO 5	understand Bilinear forms – Matrix of a Bilinear form	Upto K3
21UMSC62	COMPLEX ANALYSIS	CO 1	explain the definition of C – R equations, analytic Functions, and harmonic functions.	Upto K3
		CO 2	do problems based on linear transformations, fixed points, and some special cases of linear transformations.	Upto K3
		CO 3	evaluate the problems based on complex integration by using cauchy's theorem, theorem of higher derivatives.	Upto K3
		CO 4	explain the series expansion of analytic functions using Taylor's series, Laurent's series and to solve the problems based on the power series.	Upto K3
		CO 5	understand the concepts of the residue of a function and are able to do problems based on Residues and evaluation of definite integrals.	Upto K3
21UMSC63	STATISTICS – II	CO 1	apply the statistical tools in real life	Upto K3



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			problems with the help of attributes	
		CO 2	apply the statistical tools in real life problems with the help of index numbers	Upto K3
		CO 3	apply the theoretical discrete distributions like binomial and poisson distribution and continuous distribution like normal distribution in thr relevant application area	Upto K3
		CO 4	conduct and interpret the hypothesis test for a single population mean, variance,s,d,correlation.	Upto K3
		CO 5	apply different testing tools like t – test,f – test and chi – square test to analyse the relevant real life problems	Upto K3
21UMSC64	PROGRAMMING IN JAVA	CO 1	understand the concepts of constants, variables, data types, symbolic constants and type casting.	Upto K3
		CO 2	gain knowledge about operators, expressions, decision making.	Upto K3
		CO 3	understand class, objects, methods, arrays and strings.	Upto K3
		CO 4	analyze interfaces and packages and create packages.	Upto K3
		CO 5	gain knowledge about multithreaded programming and manages errors and	Upto K3



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			exceptions.	
21UMSE61	OPERATIONS RESEARCH – II	CO 1	solve the problems based on sequencing	Upto K3
		CO 2	understand the concepts of Game and strategies	Upto K3
		CO 3	identify the suitable model in inventory	Upto K3
		CO 4	describe the various models	Upto K3
		CO 5	arrive conclusion based on PERT and CPM	Upto K3
21UMSE62	PYTHON PROGRAMMING	CO 1	apply the python keywords and all the types of functions.	Upto K3
		CO 2	use operators and expressions and able to change precedence and associativity of arithmetic operators.	Upto K3
		CO 3	create lists and tuples and accessing elements of a list	Upto K3
		CO 4	use the loop control statements and all types of functions.	Upto K3
		CO 5	understand the syntax and basics of a function and its uses.	Upto K3
21UMSE63	ASTRONOMY	CO 1	understand the concepts of spherical trigonometry by using formulas and Analogies	Upto K3
		CO 2	apply the idea to represent different system	Upto K3



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			of coordinates of Celestial sphere diagrammatically and study the changes in the coordinates of the Sun during the year.	
		CO 3	understand different zones of earth and duration of night and day at different zones.	Upto K3
		CO 4	mathematically derive the expression for Dip of the horizon and twilight	Upto K3
		CO 5	verify Kepler's law of motion and derive Kepler's law of motion from Newton's law of gravitation.	Upto K3
B.Sc. PHYSICS				
21UPSC11	MECHANICS AND RELATIVITY	CO 1	apply laws of conservation of momentum appropriately in rigid body rotations and analyze the change in velocity and loss of Kinetic energy for the impact of elastic bodies.	K2,K3,K4
		CO 2	explain the Moment of Inertia of rigid bodies.	K1,K2,K5
		CO 3	elucidate the Kepler's laws of motion and ascertain the gravitational constant and acceleration due to gravity at different places.	K1,K4
		CO 4	describe the properties velocity, torque, angular acceleration and centre of mass of	K4,K5



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			rotating body.	
		CO 5	explain the concept of Relativity and its applications.	K2,K3
21UPSS11	LASER PHYSICS	CO 1	understand the basic concepts of Laser.	K1,K2
		CO 2	explain the types of Lasers.	K6, K3
		CO 3	explain the Industrial applications of Laser.	K3, K2
		CO 4	explain the application of Laser in the Medical field.	K3, K2
		CO 5	infer the importance of Laser in Communications.	K5, K3
21UPSA11	PROPERTIES OF MATTER, THERMAL PHYSICS AND OPTICS	CO 1	understand the basic concepts of the elastic behavior of solids and the bending behavior of beams and determine the expressions for young's modulus and rigidity modulus.	K2, K3
		CO 2	explain the physics of the flow of liquid in terms of viscosity and derive the equation of Bernoulli's theorem in hydrodynamics and its applications.	K2, K3
		CO 3	identify modes of heat transfer in solids, liquids, and gases and explain laws governing radiations.	K1, K2



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Course Code	Name of the Course	CO	CO Statement	Knowledge level (According to Blooms taxonomy)
		CO 4	define fundamental laws of thermodynamics and explain their application to thermodynamic processes - Carnot cycle, entropy change in a reversible and irreversible process.	K1, K2
		CO 5	describe the phenomena in wave optics like interference, diffraction, and polarization, identify the differences in them and demonstrate the experiments based on these phenomena.	K1, K2, K3,
21UPSC21	PROPERTIES OF MATTER AND SOUND	CO 1	identify the materials suitable for construction of buildings, based on the moduli of elasticity.	K1,K2
		CO 2	get the knowledge on properties of liquids and its applications..	K1, K3
		CO 3	analyze the viscous properties of liquids and creating knowledge about how different liquids utilized in various mechanism	K1, K4
		CO 4	realize the concept of sound in physics and design the different methods of producing and analyzing ultrasonic waves	K6, K4
		CO 5	understand the concepts of acoustic comfort and the theories used in building acoustics	K2, K5



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Contact No.: 87542 09994

87542 08885

sourashtracollege.com

soucollege@gmail.com

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21UPSS21	PROGRAMMING IN C	CO 1	understand the basic concepts of C tokens	K1, K2
		CO 2	explain the 'C' expressions and operators	K1, K2
		CO 3	understand the fundamentals of control statements in C programming	K1, K2
		CO 4	elaborate the decision making instruction using branching and looping. Implement simple problems using C language.	K1, K2, K3
		CO 5	apply concepts of an array to handle a group of data and implement simple problems using C language.	K1, K2, K3
21UPSA21/ 21UPSA41	ELECTRICITY, ELECTRONICS, ATOMIC AND NUCLEAR PHYSICS	CO 1	gain the knowledge of different laws of electrostatics which helps to solve problems	K1, K6
		CO 2	understand the concepts and laws of current electricity and demonstrate the experiment to determine the resistivity of the material of wire and calibrate voltmeter and ammeter.	K1, K2, K4
		CO 3	distinguish moving coil galvanometers dead beat ballistic and demonstrate the experiments for voltage and current sensitiveness	K2, K4



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		CO 4	understand the basics of diodes and transistors and solve the problems in the binary number system and analyze the logic circuits	K1, K3, K4
		CO 5	acquire the basic knowledge in atomic and nuclear physics	K1
21UPSC31	ELECTRICITY AND ELECTROMAGNETISM	CO 1	gain the knowledge of different laws of electrostatics which helps to solve problems	Upto K3
		CO 2	understand the concepts and laws of current electricity and demonstrate the experiment to determine the resistivity of the material of wire and calibrate voltmeter and ammeter.	Upto K3
		CO 3	explain the magnetic induction due to various types of current – carrying conductors	Upto K3
		CO 4	recall the laws of electromagnetic induction	Upto K3
		CO 5	explain various circuits consisting of capacitors, resistors, and inductors and demonstrate various bridges	Upto K3
21UPSC32	HEAT AND THERMODYNAMICS	CO 1	acquire knowledge of different scales of temperature which helps to solve problems.	Upto K3
		CO 2	classify the types of specific heat capacities a gas.	Upto K3



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		CO 3	understand the process of heat transmission and demonstrate the experiments to determine the thermal conductivity of the bad conductor, the specific heat of the liquid.	Upto K3
		CO 4	explain the degrees of freedom, equipartition of energy and mean free path	Upto K3
		CO 5	understand the laws of thermodynamics and gain knowledge about Maxwell's relations.	Upto K3
21UCYA31	ALLIED CHEMISTRY– I	CO 1	recognize the chemical bonding between atoms	Upto K3
		CO 2	understand the gases law and its applications	Upto K3
		CO 3	realise the rate of reactions in chemical kinetics.	Upto K3
		CO 4	understand the various types of organic reactions.	Upto K3
		CO 5	gain the basic idea about coordination chemistry	Upto K3
21UPSN31	FUNDAMENTALS OF PHYSICS – I	CO 1	write the dimensional formula for the physical quantities.	Upto K3



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Course Code	Name of the Course	CO	CO Statement	Knowledge level (According to Blooms taxonomy)
		CO 2	understand the concepts of three states of matter and applying the concept of heat capacities in the real life	Upto K3
		CO 3	recall kinds of energies and its application and uses.	Upto K3
		CO 4	outline the importance of renewable and non – renewable energy resources	Upto K3
		CO 5	understand the formation of images using convex and concave lenses and to illustrate the defects of eye and rectification	Upto K3
21UCYAP2	VOLUMETRIC ANALYSIS	CO	Illustrate the estimation of substance by various types of titration method	Upto K3
21UPSC41	OPTICS AND SPECTROSCOPY	CO 1	gain knowledge of geometrical optics helps in the practical model of many optical systems and instruments including aberrations in lens system.	Upto K3
		CO 2	explain the phenomenon of interference and demonstrate various experiments in interference.	Upto K3
		CO 3	classify the two types of diffraction and demonstrate the experiment to determine the wavelength of light.	Upto K3
		CO 4	explain the theory, production, detection of	Upto K3



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			various types of polarized light.	
		CO 5	get knowledge of Spectroscopy helps to extract the dynamic information about the molecule.	Upto K3
21UPSC42	MATHEMATICAL METHODS	CO 1	explain the fundamental aspects of numerical analysis and find out the solution of non – linear equations by numerical methods.	Upto K3
		CO 2	solve the simultaneous linear algebraic equations through various methods in numerical techniques.	Upto K3
		CO 3	solve eigenvalue problems using matrices that are relevant in physics and explain theorems on matrix.	Upto K3
		CO 4	define and explain the properties of special functions like gamma and beta functions, their relation and solve problems.	Upto K3
		CO 5	solve differentiation and integration using appropriate numerical methods	Upto K3
21UCYA41	ALLIED CHEMISTRY– II	CO 1	obtain the basic fundamental idea of solid state.	Upto K3



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		CO 2	get the information regarding the electrochemistry	Upto K3
		CO 3	gain the basic knowledge of polymer chemistry	Upto K3
		CO 4	understand the various aspects organic compounds in spectroscopy	Upto K3
		CO 5	know the various industrial products	Upto K3
21UPSN41	FUNDAMENTALS OF PHYSICS – II	CO 1	explain the different laws of electrostatics.	Upto K3
		CO 2	understand the concepts of different types of cells.	Upto K3
		CO 3	recall alternating current generation by various power stations.	Upto K3
		CO 4	outline the importance of Induction coil.	Upto K3
		CO 5	illustrate various circuits consisting of capacitors, resistors, and inductors and Apply to diode and bridge rectifier	Upto K3
21UCYAP2	VOLUMETRIC ANALYSIS	CO	Illustrate the estimation of substance by various types of titration method	Upto K3
21UPSC51	ATOMIC PHYSICS AND QUANTUM MECHANICS	CO 1	know the various atom model and the structure of atom in atomic physics and	Upto K2



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			understand the concept of quantum numbers.	
		CO 2	understand the properties of electron and its behavior in the atoms.	Upto K2
		CO 3	know about the concept of matter waves, debroglie hypothesis and understand the Heisenberg uncertainty principle and experiments for their proof	Upto K2
		CO 4	acquire the knowledge of postulates of quantum mechanics and inadequacy of classical mechanics and derive the Schrodinger wave equation and applications.	Upto K3
		CO 5	apply the schrodinger wave equation to solve many problems like particle in a box, barrier penetration, Harmonic oscillator etc.,	Upto K3
21UPSC52	NUCLEAR PHYSICS	CO 1	acquire knowledge on the static properties of nuclei and to understand the background of various nuclear models	Upto K2
		CO 2	identify the concept of radioactivity and to understand different modes of decay	Upto K2
		CO 3	know the process of nuclear fission and fusion and its utilization	Upto K3
		CO 4	illustrate the function of nuclear detectors and particle accelerators	Upto K3



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		CO 5	interpret the concept of cosmic rays and the basic interaction between fundamental particles	Upto K3
21UPSE51	ANALOG ELECTRONICS	CO 1	apply the theorems to analyse complicated circuits and understand the basic concepts of semiconductor devices, active and passive components.	Upto K3
		CO 2	understand transistor biasing, describe the methods of transistor biasing and circuit analysis.	Upto K3
		CO 3	understand the importance of feedback in oscillators and to develop skill in constructing AC generators.	Upto K3
		CO 4	explain special semiconductor devices that have been developed to exercise fine control over the large blocks of power in a system.	Upto K3
		CO 5	understand the characteristics of operational amplifiers and to perform mathematical calculations	Upto K3
21UPSE52	MICROPROCESSOR FUNDAMENTALS	CO 1	understand the basic architecture of 8085 and discuss the pin description of 8085	Upto K3
		CO 2	gain knowledge about the instruction set of 8085 and develop skill in programming	Upto K3



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Course Code	Name of the Course	CO	CO Statement	Knowledge level (According to Blooms taxonomy)
			techniques.	
		CO 3	understand interfacing concepts and explain timing diagram of 8085	Upto K3
		CO 4	describe interfacing I/O port to 8085 and explain the operating modes	Upto K3
		CO 5	apply the interrupts in 8085 for data transfer and remember the types of interrupts	Upto K3
21UPSE53	ENERGY PHYSICS	CO 1	acquire knowledge of conventional and non-conventional energy sources	Upto K3
		CO 2	classify the different types of Solar Collectors	Upto K3
		CO 3	understand the photovoltaic principle and apply it in the construction of solar cell	Upto K3
		CO 4	outline the importance of biomass resources and describe the working of Biomass gasifier	Upto K2
		CO 5	understand the importance of wind energy and explain the necessity of energy storage	Upto K2
21UPSS51	BIO PHYSICS	CO 1	understand the force exerted by the vertebra to head stationary in the erect position and to illustrate rotational equilibrium and translational equilibrium with examples.	Upto K2
		CO 2	employ the pressure flow relation for laminar blood flow using Poiseuille's	Upto K3



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			formula	
		CO 3	explain the dynamics of gas transport in blood cells	Upto K2
		CO 4	recall the characteristics of Sound	K1
		CO 5	define the light and describe the nature of light and Physiology of the eye.	Upto K2
21UPSS52	OPTO ELECTRONICS	CO 1	gain knowledge about the basic principles of LCD and LED.	K1
		CO 2	explain the Principle, and characteristics of laser and describe the concept of holography	Upto K2
		CO 3	illustrate the characteristics of photo detectors, photo diode and photo transistors.	Upto K2
		CO 4	summarize the basic concepts of fibre optics and elaborate the transmission of light in a optical fibre.	Upto K2
		CO 5	classify the types of optical fibres and discuss the advantages of fibre optic communication.	Upto K3
21UPSC61	SOLID STATE PHYSICS	CO 1	know about the structure of the solids and acquire knowledge of bonding in solids and crystal lattice.	K1
		CO 2	understand the production of X-rays with their properties and its application.	Upto K3
		CO 3	acquire the knowledge about the properties	K1



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			of metals and their effect	
		CO 4	study and know about the properties of magnetic materials along with the Langevin's theory of magnetism	Upto K2
		CO 5	acquire the knowledge about the band theory of solids and dielectric properties of materials.	Upto K2
21UPSE61	CLASSICAL AND STATISTICAL MECHANICS	CO 1	illustrate the mechanics of system of particles and their equations of motion.	Upto K2
		CO 2	explain the Lagrangian formulation and able to solve various mechanical problems.	Upto K3
		CO 3	understand the Hamiltonian formulation and adapt to various applications	Upto K3
		CO 4	interpret the types of ensembles and explain the basic concepts in classical statistics.	Upto K2
		CO 5	understand B.E. and F.D statistics and compare the classical and quantum statistics.	Upto K3
21UPSE62	SPECTROSCOPY	CO 1	gain knowledge about the rotation spectra and analysis by microwave spectroscopy	K1
		CO 2	summarize the different types of oscillators and study the analysis by Infra-red Spectroscopy	Upto K2



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		CO 3	apply the principles to explain spectra obtained due to energy level transitions in molecules	Upto K3
		CO 4	illustrate the rotational fine structure of electronic vibrational transition.	Upto K2
		CO 5	acquire knowledge about instrumentation and techniques in IR Spectrometer.	Upto K2
21UPSE63	ASTRO PHYSICS	CO 1	understand the birth of modern astronomy, Kepler's law of Planetary motion and visualize the effect of the three laws on the orbit of planets, asteroids and comets.	Upto K2
		CO 2	learn theoretical and practical aspects of modern telescopes, photometry and spectroscopy.	Upto K2
		CO 3	understand the temperature, atmospheric pressure of a planet. Describe solar and lunar eclipses	Upto K2
		CO 4	explain theoretical evolution of stars, white dwarfs. Understand the basic physics of black holes.	Upto K2
		CO 5	discuss milky way galaxy and its structure and understand Big Bang theory	Upto K3
21UPSE64	DIGITAL ELECTRONICS AND	CO 1	employ the codes and number systems converting circuits and compare different	Upto K3



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	COMMUNICATION		types of logic families	
		CO 2	learn the minimization techniques to simplify the hardware requirements of digital circuits and implement it, design and apply for real time digital circuits.	Upto K3
		CO 3	understand the working mechanism and design guidelines of different combinational and sequential circuits .	Upto K3
		CO 4	express basic concepts of modulation and demodulation in digital communication analyse the noise characteristics of a communication system.	Upto K3
		CO 5	get a thorough understanding of communication and satellite systems and knowledge of satellite links .	Upto K3
21UPSE65	PROBLEM SOLVING SKILL IN PHYSICS	CO 1	get problem knowledge about translational and rotational mechanics	Upto K2
		CO 2	develop the problem solving techniques in thermal physics	Upto K2
		CO 3	know about the concept electricity and magnetism, problem solving and its applications	Upto K2



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		CO 4	highlight the importance of method of solving the problem in quantum mechanics	Upto K3
		CO 5	show the output and application of general physics and mathematics while solving the	Upto K3
21UPSE66	RADIATION SAFETY	CO 1	explain about Nucleus, its energy states and radioactivity principles.	K1
		CO 2	infer the Physics aspects of Interaction of ionizing radiation with matter.	Upto K2
		CO 3	understand the function of scintillation detectors and methods of detection.	Upto K2
		CO 4	apply radiation safety management in different situation.	Upto K3
		CO 5	write the applications of nuclear techniques used in different fields.	Upto K3
21UPSS61	MEDICAL PHYSICS	CO 1	acquire knowledge about the structure of our body	Upto K2
		CO 2	understand the hearing and visualization function of our body	Upto K2
		CO 3	describe the function of bio medical instruments and its applications	Upto K3
		CO 4	obtain information about X rays and scanning devices	K1
		CO 5	elucidate the concept of biological recording system and its outputs	Upto K3



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21UPSS62	NANOPHYSICS	CO 1	get the basic knowledge in nanomaterials.	K1
		CO 2	understand the scientific perspective of nanomaterials.	Upto K2
		CO 3	recognize single domain magnetic nanoparticles.	Upto K2
		CO 4	identify the techniques suitable for nanomaterial synthesis.	Upto K3
		CO 5	know the significance of nanomaterials.	Upto K3
UNDERGRADUATE (UG) PROGRAMME SELF – FINANCE				
B.Sc. BIOCHEMISTRY				
21UBCC11	BIOMOLECULES	CO 1	comprehend the fundamental knowledge of Biomolecules and their Structure.	K1,K2
		CO 2	to comprehend the occurrence, physical and chemical properties of biomolecules	K2
		CO 3	to know about the physiological importance of biomolecules in the human system	K2
		CO 4	to know the biological importance of various Biomolecules.	K2
		CO 5	to understand the significance of Biomolecules.	K2
21UBCCP1	CORE LAB- I	CO 1	to infer the normal constituents of Carbohydrate, protein, lipid, amino acid and their significance.	K2



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		CO 2	to experiment with the biological Quantitative for DNA and RNA	K3
		CO 3	to quantitatively analyze the constituents of starch, lactose, casein, caffeine using standard methods.	K4
		CO 4	to estimate the variations in the levels of pH and using colorimeter.	K5
		CO 5	to determine the role of Biomolecules estimation quantitative and qualitative analysis	K5
21UBCS11	NUTRITIONAL BIOCHEMISTRY	CO 1	understand simple concepts related to Nutrition like balanced diet, RDA etc.,	K1
		CO 2	appreciate the correlation between food and energy requirements and utilization.	K2, K3
		CO 3	understand the body requirements- carbohydrates, lipids and proteins in specific quantities and its deficiency or excess leading to disorders.	K2, K3
		CO 4	realize the contribution of minerals, trace elements and vitamins to the wellbeing of humans.	K2, K3
		CO 5	appreciate experiments carried out by scientists to enable understand the requirement of different molecules by the	K2, K3



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			body.	
21UBCA11	ALLIED CHEMISTRY FOR LIFE SCIENCES - I	CO 1	figure out the inclusive account of atomic structure and the applications of radioisotopes.	K1,K2,K3
		CO 2	identify with the kinds and characteristics of chemical bonds, molecular interactions and dipole interactions.	K1,K2
		CO 3	discern the concepts of acids& bases and to be acquainted with the biological importance of buffer solutions.	K1,K2, K3
		CO 4	categorize the means of expressing the concentration of solutions and to appreciate the applications of osmosis & isotonic solutions.	K1, K2
		CO 5	appreciate the principles and applications of surface chemistry.	K2, K3
21UBCAP1	TITRIMETRIC ANALYSIS	CO	Illustrate the estimation of substance by various types of titration method	K2,K3,K4, K5
21UBCC21	BIOCHEMICAL TECHNIQUES	CO 1	to understand the impact of the scientific instrumentation in the area of research.	K1,K2
		CO 2	understanding the applications of centrifugation and colorimetry in biological investigation	K2



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		CO 3	develop competence in handling various chromatographic techniques and apply them in isolating and characterizing different biological molecules.	K2
		CO 4	understanding the principles of Electrophoresis and its applications	K2
		CO 5	to comprehend the importance and applications of radioactive isotope	K2
21UBCCP1	CORE LAB - I	CO 1	to infer the normal constituents of Carbohydrate, protein, lipid, amino acid and their significance.	K2
		CO 2	to experiment with the biological Quantitative for DNA and RNA	K3
		CO 3	to quantitatively analyse the constituents of starch, lactose, casein, caffeine using standard methods.	K4
		CO 4	to estimate the variations in the levels of pH and using colorimeter.	K5
		CO 5	to determine the role of Biomolecules estimation quantitative and qualitative analysis	K5
21UBCS21	PHARMACOLOGY	CO 1	understand the basic scientific concepts and principles that serve as the foundational underpinnings of the pharmacological	K1



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Contact No.: 87542 09994

87542 08885

🌐 sourashtracollege.com

✉ soucollege@gmail.com

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			sciences.	
		CO 2	appreciate the fundamental pharmacological properties that influences route of administration, drug action; drug efficacy and potency.	K1,K2
		CO 3	apply the basic pharmacological knowledge in the prevention and treatment of various diseases.	K3
		CO 4	explicate the mechanism of drug action at organ system/sub cellular/ macromolecular levels.	K2,K3
		CO 5	demonstrate the ability to effectively communicate and work collaboratively together with peers in the small group setting to successfully address problems of pharmacological significance.	K3
21UBCA21	ALLIED CHEMISTRY FOR LIFE SCIENCES II	CO 1	To realize the vital notions of organic chemistry.	K1,K2
		CO 2	To understand the organization, chemical properties and applications of carbohydrates.	K2 ,K3
		CO 3	To recognize the classification, structure and biological significance of aminoacids, proteins and nucleic acids.	K1,K2, K3



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		CO 4	To discern the occurrence, structural and biological significance of alkaloids and terpenoids.	K1, K2
		CO 5	To appreciate the classification, structure and therapeutic uses of analgesic, antipyretic, anaesthetic and antibiotic drugs.	K1, K2, K3
21UBCAP1	TITRIMETRIC ANALYSIS	CO	illustrate the estimation of substance by various types of titration method	K2,K3,K4, K5
21UBCC31	ENZYMOLGY AND ENZYME TECHNOLOGY	CO 1	comprehend the fundamental knowledge on enzymes and their importance in biological reactions.	Upto K3
		CO 2	understand the difference between a chemical catalyst and biocatalyst and understand activation energy.	Upto K3
		CO 3	characterize the enzymes in each enzymatic class, examples of such enzymes and their application in practice	Upto K3
		CO 4	demonstrate the mechanism involved in the production of biosensors and immobilized enzyme systems.	Upto K3
		CO 5	identify the clinical, industrial and biomedical applications of enzymes.	Upto K3



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21UBCCP2	LAB IN BIOCHEMICAL ANALYSIS	CO 1	gain awareness about basic reactions of biomolecules.	Upto K3
		CO 2	describe various types of biochemical reaction.	Upto K3
		CO 3	estimate the biomolecules in the various samples	Upto K3
		CO 4	know the utility of biomolecules in identification of adulterants.	Upto K3
		CO 5	determine the role of Biomolecules estimation in quantitative and qualitative analysis	Upto K3
21UBCA31	CELL BIOLOGY & GENETICS	CO 1	outline the cell structure – prokaryotic and eukaryotic – plant and animal cells. and basic concepts of microscopy	Upto K3
		CO 2	infer the cellular organs and their activities of function	Upto K3
		CO 3	make use of the process of cell division in Chromatin	Upto K3
		CO 4	compare the concepts of Mendelian Genetics–Mendel’s experiments, Mendel’s laws of inheritance	Upto K3
		CO 5	analyse the linkage Principle, crossing over in Drosophila and Sex–linked inheritance	Upto K3



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21UBCAP2	CELL BIOLOGY AND GENETICS & BIODIVERSITY AND CONSERVATION	CO 1	illustrate part of microscope and their function.	Upto K3
		CO 2	interpret cell inclusions, cell organelles and cell stages.	Upto K3
		CO 3	articulate to study of mendelian trait in man and genetic disorders.	Upto K3
		CO 4	correlate Measuring Biodiversity – Species diversity index.	Upto K3
		CO 5	appraise Indian map mark important Biodiversity regions	Upto K3
21UBCS31	MEDICAL LAB TECHNOLOGY	CO 1	understand good laboratory practices in a chemistry/biochemistry laboratory.	Upto K3
		CO 2	learn qualitative and quantitative analysis of constituents of biological fluids such as urine, blood and their estimation using standard methods	Upto K3
		CO 3	get trained in performing routine microbiological practices such as sterilization, media preparation, maintenance of microbial culture, staining etc	Upto K3
		CO 4	learn techniques and to learn the principles	Upto K3



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			of blood typing.	
		CO 5	learn about the normal constituents of urine, blood and their significance in maintaining good health	Upto K3
21UBCN31	HEALTH AND HUMAN DISEASES	CO 1	know about health and importance of yoga in human system	Upto K3
		CO 2	comprehend the fundamental knowledge of diseases and its causes with treatment	Upto K3
		CO 3	know about the importance of Vaccination and prevention of diseases.	Upto K3
		CO 4	know the importance of healthy habits and disease prevention.	Upto K3
		CO 5	understand the emergency procedures and techniques.	Upto K3
21UBCC41	METABOLISM	CO 1	understand the concepts of metabolism.	Upto K3
		CO 2	study about over view of metabolism – have an understanding about energetics	Upto K3
		CO 3	describe the Metabolism of carbohydrates, lipids and its regulation	Upto K3
		CO 4	describe the metabolism of amino acids, nucleic acids and its regulation.	Upto K3
		CO 5	understand how metabolism is regulated by enzymes and hormones	Upto K3



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21UBCCP2	LAB IN BIOCHEMICAL ANALYSIS	CO 1	gain awareness about basic reactions of biomolecules.	Upto K3
		CO 2	describe various types of biochemical reaction.	Upto K3
		CO 3	estimate the biomolecules in the various samples	Upto K3
		CO 4	know the utility of biomolecules in identification of adulterants.	Upto K3
		CO 5	determine the role of Biomolecules estimation in quantitative and qualitative analysis	Upto K3
21UBCA41	BIODIVERSITY AND CONSERVATION	CO 1	illustrate part of Biodiversity, ecosystem and Biodiversity management organization	Upto K3
		CO 2	interpret types of biodiversity and its index.	Upto K3
		CO 3	articulate mega diversity hotspots and IUCN.	Upto K3
		CO 4	correlate biodiversity conservation and biospheres.	Upto K3
		CO 5	appraise Biological Diversity and Geographical Indications	Upto K3
21UBCAP2	CELL BIOLOGY AND GENETICS & BIODIVERSITY AND	CO 1	illustrate the parts of microscope and their function.	Upto K3



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	CONSERVATION			
		CO 2	interpret cell inclusions, cell organelles and cell stages.	Upto K3
		CO 3	articulate mendelian trait in man and genetic disorders.	Upto K3
		CO 4	correlate measuring Biodiversity – Species diversity index.	Upto K3
		CO 5	appraise Indian map mark important Biodiversity regions	Upto K3
21UBCS41	BIOSTATISTICS	CO 1	define the basis of statistics	Upto K3
		CO 2	list the different methods of representation of data	Upto K3
		CO 3	classify central tendency	Upto K3
		CO 4	summarize probability	Upto K3
		CO 5	apply correlation and regression analysis	Upto K3
21UBCN41	HERBAL MEDICINE	CO 1	describe the theoretical aspects of extraction, purification and identification of natural products	Upto K3
		CO 2	develop techniques for new product development from natural sources.	Upto K3
		CO 3	design methods of standardization for herbal drug or formulations	Upto K3
		CO 4	identify phytoconstituents and adulterants in	Upto K3



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			herbal drugs	
		CO 5	explain various concepts and designs for quality control of herbs	Upto K3
21UBCC51	MOLECULAR BIOLOGY	CO 1	acquire knowledge related to discovery of DNA as genetic material, DNA replication, transcription, DNA repair and translation.	Upto K3
		CO 2	have a basic knowledge related to processes of transcription and translation in prokaryotes and eukaryotes.	Upto K3
		CO 3	understand the Coding and non-coding regions of eukaryotic genome and their importance.	Upto K3
		CO 4	develop understanding of the molecular basis of RNA processing and RNA splicing.	Upto K3
		CO 5	comprehend the ways in which the biological processes are regulated and the significance of regulation in maintaining different life forms.	Upto K3
21UBCC52	MICROBIOLOGY	CO 1	define the fundamentals of basic microbiology.	Upto K3
		CO 2	outline the bacterial growth curve.	Upto K3
		CO 3	explain the principles of microscopy technique.	Upto K3
		CO 4	utilize microorganism in food industries.	Upto K3



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		CO 5	relate the role of microbes in agriculture.	Upto K3
21UBCC53	IMMUNOLOGY AND IMMUNOTECHNOLOGY	CO 1	understand the overview of immune system including cells, organs and receptors.	Upto K3
		CO 2	learn structure and functions of different classes of immunoglobulins, the genetic basis of antibody diversity and the importance of humoral, cell-mediated and innate immune responses in combating pathogens.	Upto K3
		CO 3	understand mechanisms involved in different types of hypersensitivity and the importance of conventional vs. recombinant vaccines.	Upto K3
		CO 4	get acquainted with the importance of antigen-antibody interaction in disease diagnosis.	Upto K3
		CO 5	understand the principles of tolerance, autoimmunity and the role of immunity in protection against pathogens.	Upto K3
21UBCCP3	LAB IN MICROBIOLOGY & IMMUNOLOGY	CO 1	isolate microbes from provided samples and to perform bacterial cultures in different media.	Upto K3
		CO 2	get trained in performing routine	Upto K3



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			microbiological practices such as sterilization, media preparation, maintenance of microbial culture, staining etc.	
		CO 3	acquire expertise to culture and screen microbes for antibiotic resistance.	Upto K3
		CO 4	get acquainted with the importance of antigen–antibody interaction in disease diagnosis.	Upto K3
		CO 5	obtain hands–on training in basic separation techniques in biochemistry like chromatography.	Upto K3
21UBCE51	HUMAN PHYSIOLOGY	CO 1	gain a complete knowledge in the physiology of life Gaining a complete knowledge in the physiology of life.	Upto K3
		CO 2	be aware of the functional relationships between various organ systems of the body.	Upto K3
		CO 3	classify blood groups so as to identify the blood groups of patients and donors for the purpose of safe blood transfusion.	Upto K3
		CO 4	understand various systems of the body which support life viz. Circulatory, digestive, respiratory, nervous and excretory systems.	Upto K3
		CO 5	explain the structure and functions of	Upto K3



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			neuron, transmission of nerve impulse and understand neuromuscular coordination.	
21UBCE52	BIOETHICS, BIOSAFETY AND INTELLECTUAL PROPERTY RIGHTS	CO 1	understand the ethics, realize rights and responsibilities in society.	Upto K3
		CO 2	be ethical in biomedical research.	Upto K3
		CO 3	follow standard guidelines in laboratory and clinical trials	Upto K3
		CO 4	follow ethical practices in biomedicine.	Upto K3
		CO 5	identify intellectual property in research and apply for patents.	Upto K3
21UBCE53	ECOLOGY AND ENVIRONMENTAL TOXICOLOGY	CO 1	utilize the knowledge in understanding the ecosystem.	Upto K3
		CO 2	discuss and explain the interaction between various ecosystem and impact of natural disturbances on ecosystem	Upto K3
		CO 3	explicate the harmful effects of radioactive pollutants and their waste.	Upto K3
		CO 4	apply the knowledge in executing preventive measures on understanding toxic metals,	Upto K3



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			organic and inorganic pollutants into environment.	
		CO 5	apply the knowledge in the disposal of waste by various bioremediation methods.	Upto K3
21UBCE54	BIOINFORMATICS	CO 1	recall the basic concepts of internet.	Upto K3
		CO 2	define bioinformatics and its applications.	Upto K3
		CO 3	summarize the biological databases.	Upto K3
		CO 4	compare sequence alignment methods.	Upto K3
		CO 5	apply sequence alignment for phylogeny analysis.	Upto K3
21UBCE55	HOSPITAL MANAGEMENT	CO 1	know and understand the importance and role of various departments, support services in hospitals.	Upto K3
		CO 2	confer about information system in hospitals and Quality assurance.	Upto K3
		CO 3	communicate about Ethics governing various clinical aspects like blood transfusion, transplantation.	Upto K3
		CO 4	comprehend various legal and safety aspects in hospital administration.	Upto K3
		CO 5	discuss counselling and recognize the role of counsellors in Hospital management.	Upto K3
21UBCE56	PHARMACEUTICAL	CO 1	understand drug dosage, routes of	Upto K3



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	BIOCHEMISTRY		administration and about bioavailability of drugs.	
		CO 2	understand about basic principles involved in pharmacokinetics.	Upto K3
		CO 3	understand about the drug receptor interactions and gain knowledge on metabolism.	Upto K3
		CO 4	describe the general principles of adverse drug reactions and acute poisoning.	Upto K3
		CO 5	advance the knowledge on drug discovery process and ethical issues in drug discovery process and in preclinical toxicological studies.	Upto K3
21UBCS51	FOOD PROCESSING TECHNOLOGY	CO 1	explain major food groups and bio-fortification.	Upto K3
		CO 2	know about cereals and pulses milling techniques which To develop entrepreneurial skills.	Upto K3
		CO 3	understand the processing of fruits and vegetables.	Upto K3
		CO 4	understand the various milk processing methods.	Upto K3
		CO 5	gain knowledge on the processing of meat, fish and eggs products and egg products.	Upto K3



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21UBCC61	BIOTECHNOLOGY & GENETIC ENGINEERING	CO 1	describe the fundamental steps in genetic engineering procedures and relate the different vectors used in genetic engineering.	Upto K3
		CO 2	identify various natural and artificial ways to propagate plants to increase genetic variety and infer the use of transgenic plants.	Upto K3
		CO 3	outline the fundamentals of various types of animal cell cultures and identify the suitable methods for producing transgenic animals.	Upto K3
		CO 4	illustrate the <i>biotechnology-based applications of microbes and their enzymes</i> .	Upto K3
		CO 5	discuss the role of biotechnology in industrial sectors.	Upto K3
21UBCC62	PLANT BIOCHEMISTRY	CO 1	acquire knowledge on plant pigments.	Upto K3
		CO 2	comprehend the process of photosynthesis and photorespiration.	Upto K3
		CO 3	receive knowledge on plant nutrition and the role of enzymes in nitrogen fixation.	Upto K3
		CO 4	comprehend the role of plant growth regulators.	Upto K3
		CO 5	understand the plant cell physiology & methodology and application of plant tissue culture.	Upto K3



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21UBCC63	CLINICAL BIOCHEMISTRY	CO 1	determine the normal constituents of urine, blood and their significance in maintaining good health.	Upto K3
		CO 2	explain the metabolic disorders of carbohydrate.	Upto K3
		CO 3	become aware with the variations in the levels of triglycerides and lipoproteins and their relationship with various diseases.	Upto K3
		CO 4	learn about the disorders and the inborn errors of protein, amino acid and nucleic acid metabolism.	Upto K3
		CO 5	gain knowledge about the disorders and the inborn errors of nucleic acid metabolism.	Upto K3
21UBCC64	MEDICAL DIAGNOSTICS	CO 1	develop an understanding of the scientific basis underpinning medical diagnostic assays and technologies.	Upto K3
		CO 2	understand the pathophysiological processes responsible for common biochemical disorders.	Upto K3
		CO 3	understand the enzyme patterns in diseases of various organs such as pancreas, liver, bones, heart and muscle.	Upto K3
		CO 4	give an overview of normal and abnormal metabolic functions, how they impact	Upto K3



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			metabolic processes.	
		CO 5	detail the Clinical application of enzymes in diagnosis, differentiation of functional and non-functional plasma enzymes.	Upto K3
21UBCCP4	LAB IN CLINICAL BIOCHEMISTRY	CO 1	gain knowledge of about the normal constituents of urine, blood and their significance.	Upto K3
		CO 2	learn qualitative analysis of constituents of biological fluids such as urine, blood.	Upto K3
		CO 3	learn quantitative analysis of constituents of biological fluids such as urine, blood and their estimation.	Upto K3
		CO 4	become aware with the variations in the levels of triglycerides and their relationship with various diseases.	Upto K3
		CO 5	get acquainted with the role of enzymes in diagnosis of various diseases.	Upto K3
21UBCE61	ENDOCRINOLOGY AND HORMONAL REGULATIONS	CO 1	gain knowledge about the classification and mechanism of action of hormones and to demonstrate various types of second messengers and their action.	Upto K3
		CO 2	understand hypothalamic and pituitary hormones.	Upto K3
		CO 3	learn various functions of thyroid,	Upto K3



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			parathyroid hormones along with their mechanism of action.	
		CO 4	discuss the link between pancreatic and gastro-intestinal hormones with diseases.	Upto K3
		CO 5	demonstrate the biological functions of adrenal gland hormones and reproductive hormones.	Upto K3
21UBCE62	INDUSTRIAL BIOCHEMISTRY	CO 1	learn about the culture techniques for isolation of microbes from various sources and preserve the isolates.	Upto K3
		CO 2	gain basic knowledge about principles of fermentation and types of fermenters.	Upto K3
		CO 3	describe the microbial production of bioactive compounds such as organic acids, bacterial and fungal polysaccharides, antibiotics and vitamins.	Upto K3
		CO 4	learn about industrial production of alcohol, alcoholic beverages, production of Single Cell Protein, bioethanol and biogas production.	Upto K3
		CO 5	provide fundamental insights to exploit microbes for protecting environment.	Upto K3
21UBCE63	THERAPEUTIC NUTRITION	CO 1	illustrate the nature of nutritional requirements during fever.	Upto K3



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		CO 2	relate the nutrition knowledge in weight management.	Upto K3
		CO 3	classify hypertension and able to trace the root cause, suggest diet for hypertension.	Upto K3
		CO 4	examine about gastrointestinal disorders and summarize the disease management.	Upto K3
		CO 5	apply the knowledge of biochemistry in treating metabolic disorders.	Upto K3
21UBCS61	BIO ENTREPRENEURSHIP	CO 1	understand the concept and scope for bioentrepreneurship.	Upto K3
		CO 2	identify various operations involved in a venture creation.	Upto K3
		CO 3	be aware of gathering funds and launching a winning business.	Upto K3
		CO 4	nurture the organization and harvest the rewards.	Upto K3
		CO 5	utilize the schemes promoted through knowledge centers and various agencies.	Upto K3
B.Sc. MICROBIOLOGY				
21UMBC11	GENERAL MICROBIOLOGY	CO 1	acquire the knowledge on the basic concepts, scope and development of microbiology	K1



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soucollege@gmail.com

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Course Code	Name of the Course	CO	CO Statement	Knowledge level (According to Blooms taxonomy)
		CO 2	understand the principles of microscopy and different types of microscope and its applications.	K2, K3
		CO 3	gain the knowledge on the structural organization of bacteria, analyze the differences between the structural organization of prokaryotes and eukaryotes.	K1, K2
		CO 4	acquire the knowledge on the structural features and life cycle of algae and fungi.	K1, K2
		CO 5	acquire the knowledge on the structural features of bacteria and virus	K1
21UMBA11	ALLIED CHEMISTRY FOR LIFE SCIENCES - I	CO 1	figure out the inclusive account of atomic structure and the applications of radioisotopes.	K1,K2,K3
		CO 2	identify with the kinds and characteristics of chemical bonds, molecular interactions and dipole interactions.	K1,K2
		CO 3	discern the concepts of acids& bases and to be acquainted with the biological importance of buffer solutions.	K1,K2,K3
		CO 4	categorize the means of expressing the concentration of solutions and to appreciate the applications of osmosis & isotonic solutions.	K1,K2



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		CO 5	appreciate the principles and applications of surface chemistry.	K2,K3
21UMBCP1	CORE PRACTICAL – I	CO 1	understand the sterilisation techniques, media preparation, staining techniques, identification and culturing of microbes.	K1, K3
		CO 2	identify and observe the various types of bacteria, fungi, viruses and algae.	K1
		CO 3	identify the bacteria by using various biochemical tests.	K1, K2, K3
21UMBAP1	TITRIMETRIC ANALYSIS	CO	illustrate the estimation of substance by various types of titration method	K2,K3,K4, K5
21UMBS11	MICROBIAL TECHNIQUES	CO 1	understand the lab safety and aseptic techniques	K1
		CO 2	know the types of media	K1, K3
		CO 3	understand the methods to cultivate the bacteria	K1, K2
		CO 4	understand the process of the growth and kinetics of bacteria and factors affecting it	K1, K2
		CO 5	acquire the knowledge on the different methods to preserve and maintenance of the bacterial culture.	K1, K3
21UMBC21	MICROBIAL PHYSIOLOGY AND	CO 1	get acquainted with basics of generation of Energy, Entropy	K1



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	TAXONOMY			
		CO 2	understand Photosynthetic pathways and Inorganic Metabolism	K2, K3
		CO 3	know the process of Bacterial Cell division and Differentiation	K1, K2
		CO 4	acquire the knowledge on the Taxonomy and major characteristic features in Taxonomy	K1, K2
		CO 5	acquire the knowledge on the classification of fungi, virus and algae	K1
21UMBA21	ALLIED CHEMISTRY FOR LIFE SCIENCES – II	CO 1	realize the vital notions of organic chemistry.	K1,K2
		CO 2	understand the organization, chemical properties and applications of carbohydrates.	K2 ,K3
		CO 3	recognize the classification, structure and biological significance of aminoacids, proteins and nucleic acids.	K1,K2, K3
		CO 4	discern the occurrence, structural and biological significance of alkaloids and terpenoids.	K1, K2
		CO 5	appreciate the classification, structure and therapeutic uses of analgesic, antipyretic, anaesthetic and antibiotic drugs.	K1,K2, K3



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21UMBS21	DIAGNOSTIC MICROBIOLOGY AND HAEMATOLOGY	CO 1	acquire the knowledge on the Laboratory Identification of Infectious agents and staining Techniques	K1
		CO 2	understand the principles of Blood components, Blood cells and collection methods.	K2, K3
		CO 3	gain the knowledge on the structural organization of bacteria, analyze the differences between the structural organization of prokaryotes and eukaryotes.	K1, K2
		CO 4	acquire the knowledge on the determinations of Haemoglobin content and counting of Blood Cells.	K1, K2
		CO 5	acquire the knowledge on the microbial analysis of clinical samples.	K1
21UMBCP1	CORE PRACTICAL – I	CO 1	understand the sterilisation techniques, media preparation, staining techniques, identification and culturing of microbes.	K1, K3
		CO 2	identify and observe the various types of bacteria, fungi, viruses and algae.	K1
		CO 3	identify the bacteria by using various biochemical tests.	K1, K2, K3



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21UMBAP1	TITRIMETRIC ANALYSIS	CO	illustrate the estimation of substance by various types of titration method	K2,K3,K4, K5
21UMBC31	MOLECULAR MICROBIOLOGY	CO 1	obtain the knowledge on biological features of nucleic acids and their different forms.	Upto K3
		CO 2	recognise the mechanism of DNA replication and associated enzymes.	Upto K3
		CO 3	acquire a comprehensive outlook on the process of transcription.	Upto K3
		CO 4	recognize the significance of genetic code in protein synthesis.	Upto K3
		CO 5	accomplish familiarity on the concepts of operon and transposable genetic elements.	Upto K3
21UMBCP2	CORE PRACTICAL – II	CO 1	illustrate the key concepts in the basic Microbial Genetics	Upto K3
		CO 2	understand the implication of mutation and its characteristics in prokaryotes.	Upto K3
		CO 3	become familiar with the gene transfer techniques in prokaryotes.	Upto K3
		CO 4	understand the concept of prokaryotic chromosomal DNA isolation.	Upto K3
		CO 5	acquire knowledge in the identification of recombinant bacterial colonies.	Upto K3
21UMBA31	CELL BIOLOGY	CO 1	acquire the knowledge on the structure of	Upto K3



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			plant and animal cells, compare prokaryotic and eukaryotic cells, structure and functions of unit membrane and cytoskeletons.	
		CO 2	understand the structure and functions of cellular components.	Upto K3
		CO 3	accomplish familiarity on the mechanism of photosynthesis and generation of ATP, organization of nuclear components.	Upto K3
		CO 4	understand the events occurring in cell division and how it is accomplished.	Upto K3
		CO 5	become familiar with basic principles of working of Microscopy, centrifugation and acquire skills in cytochemical staining techniques.	Upto K3
21UMBAP2	ALLIED BIOLOGY PRACTICAL	CO 1	identify the different parts of microscope, cell organelles and various stages of mitosis.	Upto K3
		CO 2	appreciate the biodiversity rich regions and able to map them.	Upto K3
		CO 3	know the importance of endemic plants and animals by collecting the information from various sources.	Upto K3
		CO 4	become familiar with the techniques to measure biodiversity and vegetation.	Upto K3



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		CO 5	analyse the data using different statistical techniques.	Upto K3
21UMBS31	MUSHROOM TECHNOLOGY	CO 1	acquire the knowledge on the History of mushroom cultivation, classification of mushrooms and nutritive components of mushrooms.	Upto K3
		CO 2	understand the morphology and lifecycle of mushrooms, techniques employed in isolation of mushroom cultures and spawn production.	Upto K3
		CO 3	accomplish familiarity on the cultivation strategies of different types of mushrooms.	Upto K3
		CO 4	gain awareness on the novel mushroom recipes, medicinal value of mushrooms, pests and pathogens infecting mushrooms.	Upto K3
		CO 5	appreciate the research activities, economics and environmental impact of mushroom cultivation in India.	Upto K3
21UMBN31	FOOD AND DAIRY TECHNOLOGY	CO 1	gain knowledge about food as a substrate for various microbes, the role of factors and its importance.	Upto K3
		CO 2	comprehend the principles and application of different types of food preservation technique	Upto K3



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		CO 3	realize the significance of microbial fermentation in foods.	Upto K3
		CO 4	get equipped with pragmatic understanding of food spoilage and food borne infections.	Upto K3
		CO 5	recognize the microbiological techniques and government regulatory practices employed to ensure food safety.	Upto K3
21UMBC41	MICROBIAL GENETICS	CO 1	get an insight into the history of Bacterial genetics and conceptualization of gene theory.	Upto K3
		CO 2	gain knowledge about the processes behind mutations and impact of mutagens.	Upto K3
		CO 3	attain the conception on the means of genetic exchange in bacteria role in gene mapping.	Upto K3
		CO 4	examine the properties of plasmids and its types.	Upto K3
		CO 5	outline the biology of phages and their role in gene transfer.	Upto K3
21UMBPC2	CORE PRACTICAL – II	CO 1	illustrate the key concepts in the basic Microbial Genetics	Upto K3
		CO 2	understand the implication of mutation and its characteristics in prokaryotes.	Upto K3
		CO 3	become familiar with the gene transfer	Upto K3



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Course Code	Name of the Course	CO	CO Statement	Knowledge level (According to Blooms taxonomy)
			techniques in prokaryotes.	
		CO 4	understand the concept of prokaryotic chromosomal DNA isolation.	Upto K3
		CO 5	acquire knowledge in the identification of recombinant bacterial colonies.	Upto K3
21UMBA41	BIODIVERSITY AND BIOSTATISTICS	CO 1	receive an insight into the learning about the meaning of biodiversity, concept and its scope and presenting the diversity at three levels and knowledge on Mega diversity Centres and Hotspots.	Upto K3
		CO 2	understand the threats to biodiversity and appreciate the role and operation of protected areas in conservation practices and scientific methods to conserve biodiversity and human dependence on biodiversity	Upto K3
		CO 3	understand the role of biostatistics in various biological fields, types and methods for collecting data.	Upto K3
		CO 4	apply the basic techniques to present the data in classification, tabular, diagrammatic and graphic form.	Upto K3
		CO 5	explore the statistical techniques to measure central tendency, dispersion and correlation.	Upto K3
21UMBAP2	ALLIED BIOLOGY	CO 1	identify the different parts of microscope,	Upto K3



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	PRACTICAL		cell organelles and various stages of mitosis.	
		CO 2	appreciate the biodiversity rich regions and able to map them.	Upto K3
		CO 3	know the importance of endemic plants and animals by collecting the information from various sources.	Upto K3
		CO 4	become familiar with the techniques to measure biodiversity and vegetation.	Upto K3
		CO 5	analyse the data using different statistical techniques.	Upto K3
21UMBS41	COSMETIC MICROBIOLOGY	CO 1	acquire knowledge on history of cosmetic microbiology and role of microbes in cosmetic preparation.	Upto K3
		CO 2	explore the microorganisms in cosmetic formulations.	Upto K3
		CO 3	become familiar with the cosmetic product development and the quality control strategies.	Upto K3
		CO 4	exemplify the validation of methodologies employed in cosmetic preparations.	Upto K3
		CO 5	Explicate the cosmetic product regulations.	Upto K3
21UMBN41	MICROBES IN HUMAN HEALTH	CO 1	be familiar with the history of medical microbiology and methods of sterilization.	Upto K3



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		CO 2	understand the etiology of microbial & protozoan infections and its control.	Upto K3
		CO 3	apprehend the significance of diagnostic microbiological assays.	Upto K3
		CO 4	appreciate the efficacy of vaccines in prophylaxis of infectious disease.	Upto K3
		CO 5	recognize the importance of antimicrobial chemotherapy in disease control.	Upto K3
21UMBC51	CLINICAL MICROBIOLOGY	CO 1	gain the basic knowledge about Infectious diseases, Human–microbe interactions, Host defence mechanisms.	Upto K3
		CO 2	understand the pathogenicity of bacterial pathogens.	Upto K3
		CO 3	comprehend the pathogenicity of viral pathogens.	Upto K3
		CO 4	recognize the pathogenicity of fungal pathogens and protozoan parasites.	Upto K3
		CO 5	gain the basic knowledge about Anti–microbial chemotherapy and drug resistance mechanisms.	Upto K3
21UMBC52	AGRICULTURAL AND ENVIRONMENTAL	CO 1	summarise the beneficial role of microbes	Upto K3



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	MICROBIOLOGY			
		CO 2	explain the harmful plant pathogen interactions	Upto K3
		CO 3	list the microbes that can be used as biofertilizers	Upto K3
		CO 4	outline the biogeochemical cycles.	Upto K3
		CO 5	understand the waste management process.	Upto K3
21UMBC53	IMMUNOLOGY	CO 1	become familiar with the historical perspective, cellular and molecular aspects of the immunesystem and the immune response.	Upto K3
		CO 2	understand the characteristics of antigen, antibody and its types.	Upto K3
		CO 3	examine the basic mechanism of hypersensitivity, development of immune cells and their activation and differentiation.	Upto K3
		CO 4	understand the principle and application of various immune techniques.	Upto K3
		CO 5	comprehend the strategies essential for generating or suppressing immune responses as required in hypersensitivity reactions, transplantation,	Upto K3



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			autoimmune diseases and cancer.	
21UMBC54	FOOD AND INDUSTRIAL MICROBIOLOGY	CO 1	understand the role of microbes in food processing	Upto K3
		CO 2	summarise various food preservation techniques	Upto K3
		CO 3	highlight the design and working mechanism of bioreactor	Upto K3
		CO 4	outline the commercially important productsproduction process in large scale	Upto K3
		CO 5	define the biosafety level and good laboratorypractices for quality management	Upto K3
21UMBCP3	CORE PRACTICAL–III	CO 1	acquire technical skills on identification of pathogenic bacteria and antibiotics sensitivity tests.	Upto K3
		CO 2	understand the practical concept on isolation and classification of significant soil microbes.	Upto K3
		CO 3	be aware of various immune cells and enumerate them.	Upto K3
		CO 4	knowledgeably execute serological	Upto K3



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			diagnostic assays.	
		CO 5	obtain technical skills on Food and Industrial Microbiology.	Upto K3
21UMBE51	COMPUTER APPLICATION IN BIOLOGY	CO 1	acquire the knowledge on the basic of computer –History, components and devices of a computer.	Upto K3
		CO 2	understand and operate the computer – Word,Excel, Power point and accesses internet.	Upto K3
		CO 3	gain the knowledge about the basic and recentlanguages of computer–BASIC–FORTRAN	Upto K3
		CO 4	know about the application of computer in biologyusing phylogenetic tree construction and its methods	Upto K3
		CO 5	understand about the sequence analysis usingdifferent software packages–BLAST–FASTA	Upto K3
21UMBE52	BIOREMEDIATION	CO 1	receive knowledge of bioremediation and technologies.	Upto K3
		CO 2	gain expertise on different types of pollutions.	Upto K3



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		CO 3	gain knowledge on the accumulation of various gaseous in the environment.	Upto K3
		CO 4	explain about the major environmental contaminants– Organic and industrial Waste	Upto K3
		CO 5	explain the importance of waste water treatment and impact of using microbes in treatment.	Upto K3
21UMBE53	FERMENTATION AND BIOPROCESS TECHNOLOGY	CO 1	outline the concept of fermentation methods and its modes.	Upto K3
		CO 2	understand the knowledge of basic fermenter designs and its types.	Upto K3
		CO 3	explain the production process using the microorganisms	Upto K3
		CO 4	know about the application of commercially important Primary and Secondary metabolites process.	Upto K3
		CO 5	get educated to control the bioprocess using computer application skills.	Upto K3
21UMBS51	BIOCONTROL	CO 1	understand the basic strategies for biological pest control agents.	Upto K3



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		CO 2	know about the biological interaction of predation and predators.	Upto K3
		CO 3	gain the knowledge of bacteria and fungi used as abiopesticides with examples.	Upto K3
		CO 4	explain about the viral biopesticides.	Upto K3
		CO 5	outline natural control methods of weeds and plant extracts.	Upto K3
21UMBC61	VIROLOGY	CO 1	understand the historical development and basics of virology & assay of viruses.	Upto K3
		CO 2	learn the reproductive pathway of phages.	Upto K3
		CO 3	receive the knowledge about replication strategy animal viruses.	Upto K3
		CO 4	analyse of the replication strategy of plant viruses.	Upto K3
		CO 5	acquire knowledge about human viral infections and antiviral therapies.	Upto K3
21UMBC62	BIOCHEMISTRY AND ENZYMOLOGY	CO 1	understand structure and composition of biomolecules	Upto K3
		CO 2	outline the carbohydrate and fat metabolism	Upto K3
		CO 3	summarise the structure of proteins	Upto K3



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		CO 4	differentiate enzymes based on their function	Upto K3
		CO 5	highlight the use of enzymes in industrial sector	Upto K3
21UMBC63	rDNA TECHNOLOGY	CO 1	understand the principles, methods and tools associated with recombinant technology.	Upto K3
		CO 2	characterize the events in cloning.	Upto K3
		CO 3	perceive the methods of the construction of libraries	Upto K3
		CO 4	understand the different techniques for the selection of clones	Upto K3
		CO 5	learn the various applications of recombinant DNA technology.	Upto K3
21UMBCP4	CORE PRACTICAL – IV	CO 1	understand evaluation of bio-molecules.	Upto K3
		CO 2	analyse bio-molecules by partition techniques.	Upto K3
		CO 3	obtain vital knowledge on rDNA technology.	Upto K3
		CO 4	acquire knowledge about viral culturing techniques.	Upto K3
		CO 5	receive information about basics of Bioinformatics and its application in	Upto K3



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			research.	
21UMBE61	BIOINFORMATICS	CO 1	know about the basics of Bioinformatics and data information.	Upto K3
		CO 2	know about sequence analysis , similarities using different software	Upto K3
		CO 3	strongly understand the data storage methods and drug discovery.	Upto K3
		CO 4	receive updated information about the recent journals enhance the quality of students	Upto K3
		CO 5	enlarge the knowledge on the application of computer.	Upto K3
21UMBE62	BIOTECHNOLOGY	CO 1	understand the different tools and methods are employed in the laboratory for manipulation of DNA	Upto K3
		CO 2	become familiar with various cloning strategies in prokaryotes and eukaryotes	Upto K3
		CO 3	become familiar with the methods of Plant and Animal Tissue Culture and their applications and highlight the design and working mechanism of bioreactor	Upto K3



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		CO 4	become aware of the various biological applications for Human Welfare.	Upto K3
		CO 5	understand the importance of IPR, the social and ethical issues concerning biological materials.	Upto K3
21UMBE63	IPR, BIOSAFETY AND BIOETHICS	CO 1	acquire knowledge on intellectual property rights and their implications in biological research and product development.	Upto K3
		CO 2	understand the role of regulatory agencies for the protection of biological products.	Upto K3
		CO 3	acquire knowledge on Patents and filing procedures	Upto K3
		CO 4	understand the implementing of Biosafety cabinets and their levels.	Upto K3
		CO 5	become aware of the ethical issues involving biological organisms, biological cells, organs and materials.	Upto K3
21UMBE64	ANALYTICAL MICROBIOLOGY	CO 1	understand the basic knowledge of separation techniques of centrifuge.	Upto K3
		CO 2	gain the knowledge of separation of Nucleic acids and purification techniques of DNA.	Upto K3
		CO 3	acquire the knowledge on various separation techniques – SDS PAGE.	Upto K3



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Contact No.: 87542 09994

87542 08885

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soucollege@gmail.com

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Course Code	Name of the Course	CO	CO Statement	Knowledge level (According to Blooms taxonomy)
		CO 4	understand the different types of chromatography techniques.	Upto K3
		CO 5	find out the different types of pharmaceutical quality tests	Upto K3
21UMBE65	MYCOLOGY	CO 1	gain the basic knowledge on the classification of fungi, characteristics of important group of fungi, and their associations with algae.	Upto K3
		CO 2	understand the life cycle of various plant pathogenic fungi, their mode of transmission and disease life cycle.	Upto K3
		CO 3	correlate a particular fungal infection with their clinical manifestations.	Upto K3
		CO 4	identify mycoses with the help of laboratory diagnosis and able to give appropriate treatment.	Upto K3
		CO 5	understand the importance of various fungi in the field of agriculture and biotechnology.	Upto K3
21UMBE66	PARASITOLOGY	CO 1	understand the concept of parasitism, their associations, life cycle and transmission	Upto K3
		CO 2	categorize various parasites	Upto K3
		CO 3	understand the life cycle of various parasites	Upto K3



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			and their mode of transmission.	
		CO 4	correlate a particular parasitic infection with their clinical manifestations	Upto K3
		CO 5	identify parasites with the help of laboratory diagnosis and able to give appropriate treatment.	Upto K3
21UMBS61	PHARMACUETICAL MICROBIOLOGY	CO 1	gain the basic knowledge of pharmaceutical microbiology	Upto K3
		CO 2	explore the different microbial products used in pharmaceutical applications	Upto K3
		CO 3	understand the therapeutic uses, mode of action and toxicity of various drugs	Upto K3
		CO 4	develop the skills of the evaluation of pharmaceutical products	Upto K3
		CO 5	gain information about the good laboratory practices and regulations for utilizing microbial product in pharmaceutical applications	Upto K3
B.Com. COMPUTER APPLICATIONS				
21UACA11	வணிகக் கடிதங்கள்	CO 1	வணிகக் கடிதத்தின் நோக்கத்தையும் அவற்றின் கூறுகள், பொதுவான அம்சங்கள் மற்றும் படிவத்தை அறிந்து கொள்ளுதல்.	K1, K2
		CO 2	வியாபாரத்திற்கு தேவையான முனைவுக் கடிதங்கள், விலைப்புள்ளிகள்,	K1, K2, K3



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			ஆணையறுக்கள் மற்றும் சரக்கு பெற்றுக் கொண்டதை போன்ற அனைத்து வகையான கடிதங்கள் மூலம் தெரிந்துகொள்தல்	
		CO 3	விசாரணைக் கடிதங்களில் தொடங்கி புகார்கள் சரிகட்டுதல்கள், நிலுவைத்தொகை, வசூல் மற்றும் கணக்கை நேர் செய்தல் வரை கடிதங்களை எழுதிப் பழகுதல்.	K1, K2, K3
		CO 4	சுற்றுக் கடிதங்கள் தயார் செய்தல் மற்றும் அரசு, பொது சேவை அமைப்பு சார்ந்தவை வரைதல்	K2, K3
		CO 5	வேலை வாய்ப்பிற்கான கடிதங்கள் மற்றும் பத்திரிக்கை ஆசிரியருக்கு மடல்கள் பயன்படும் வகையில் இப்பாடம் அமைந்துள்ளது.	K1, K2, K3
21UCCC11	Financial Accounting – I	CO 1	understand the preparation of Journal and Ledger.	K1, K2
		CO 2	prepare the Single, Double, Triple column cash book and Petty cash book as well as Trial balance.	K1, K2, K3
		CO 3	acquire the knowledge of preparation of final accounts.	K1, K2, K3
		CO 4	locate the errors in the transactions by applying the types of errors.	K2, K3
		CO 5	acquire knowledge about application of methods of depreciation.	K1, K2, K3
21UCCC12	Business Application	CO 1	identify the basic concepts needed for	K1



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	Programming		program development	
		CO 2	apply the basic concepts and develop program to find solutions for simple problems	K2,K3
		CO 3	design programs to solve complex problems by using suitable control statements	K1,K3
		CO 4	analyze the problem and design efficient program using functions	K1,K3
		CO 5	use array and structure to handle volume of data	K2,K3
21UACA21	அலுவலக மேலாண்மை	CO 1	அலுவலக மற்றும் நவீன அலுவலகத்தின் மேலாண்மையின் செயல்பாடுகள் அதன் முக்கியத்துவத்தை அறியசெய்தல்	K1, K2
		CO 2	பணியின் சூழ்நிலைகளையும் மற்றும் தபால்களை கையாளுதல் பழக்கப்படுத்தல்	K1, K2, K3
		CO 3	அலுவலக கோப்பை இடுதல் அவற்றின் அம்சங்கள் மற்றும் பராமரித்தல்	K1, K2, K3
		CO 4	இயந்திரங்களை கையாளுதல், பராமரித்தல் மற்றும் அதன் அடிப்படைப் கோட்பாடுகளை அறியசெய்தல்	K2, K3
		CO 5	அலுவலக அறிக்கைகள் அவற்றின் முக்கியத்துவம், வகைகள், செயலாக்கம் கற்கசெய்தல்	K1, K2, K3
21UCCC21	Financial Accounting – II	CO 1	understand the concepts and application of methods in single entry system.	K1, K2



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		CO 2	acquire the knowledge of preparation of self-balancing system.	K1, K2
		CO 3	gain the preparation of bills of exchange.	K1
		CO 4	use the calculation of interest in account current and average due date.	K2, K3
		CO 5	apply the preparation of receipts and payment accounts and income and expenditure account.	K1, K2, K3
21UCCC22	JAVA PROGRAMMING	CO 1	use an integrated development environment to write, compile, run, and test, simple object-oriented Java programs.	K1, K2
		CO 2	read and make elementary modifications to Java programs that solve real world problems.	K1, K2
		CO 3	validate input in a Java program.	K1, K2
		CO 4	identify and fix defects and common security issues in code.	K2
		CO 5	document a Java program using Java doc.	K1, K2, K3
21UCCAP2	JAVA LAB	CO 1	list out the Working method of Java Code..	K1, K2, K3
		CO 2	identify and methods used to solve Coding tool and Error Rectify.	K1, K2, K3



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		CO 3	be placed in Development sector.	K1, K2, K3
21UCCC31	DATA BASE MANAGEMENT SYSTEM	CO 1	recollect the concept and importance of database management	Upto K3
		CO 2	examine various methods and techniques for database system.	Upto K3
		CO 3	have thorough knowledge about various theories of database.	Upto K3
		CO 4	gain knowledge in different types of creating methods.	Upto K3
		CO 5	expert knowledge about various types of database.	Upto K3
21UCCCP1	LAB : RDBMS	CO 1	acquire knowledge about averages to be used in create Database	Upto K3
		CO 2	gain knowledge about SQL	Upto K3
		CO 3	gain knowledge about the Database creation	Upto K3
21UCCC33	FINANCIAL ACCOUNTING – III	CO 1	understand the preparation of capital accounts.	Upto K3
		CO 2	acquire knowledge in the accounting practice prevailing in admission of a partner	Upto K3
		CO 3	gain knowledge in accounting practice	Upto K3



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			prevailing in retirement and death of a partner	
		CO 4	gain knowledge in accounting practice and dissolution of a firm and sale of a company	Upto K3
		CO 5	expand knowledge in accounting practice prevailing in Insolvency of a partner and Piece-meal Distribution	Upto K3
21UCCA31	PROMOTIONAL MARKETING	CO 1	gain knowledge about methods of promotional mix and strategies of sales activities	Upto K3
		CO 2	equipped with the knowledge regarding sales promotion and provide duties and responsibilities of sales manager	Upto K3
		CO 3	enable clear knowledge about sales promotion	Upto K3
		CO 4	comprehend advertising activities and implement their own ideas for developing business.	Upto K3
		CO 5	acquire knowledge regarding Advertising media	Upto K3
21UCCS31	AUDITING	CO 1	acquire the basic concepts of auditing	Upto K3
		CO 2	understand the internal audit and auditors duty	Upto K3
		CO 3	learn the various aspects of vouching	Upto K3



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		CO 4	explain about verification, valuation of tangible and intangible assets	Upto K3
		CO 5	understand about auditors report, certificates and kinds of reports.	Upto K3
21UCCSP1	LAB : OFFICE AUTOMATION	CO 1	know and use the forms and create basic of MS Office	Upto K3
		CO 2	know about the practical work	Upto K3
		CO 3	gain knowledge of filling up of various forms	Upto K3
		CO 4	gain knowledge about the EXCEL	Upto K3
		CO 5	acquire knowledge about format of MS–Office	Upto K3
21UCCN31	SALESMANSHIP	CO 1	explain the various selling methods	Upto K3
		CO 2	understand the characteristics of a successful salesman	Upto K3
		CO 3	analyse the qualities of a good salesman	Upto K3
		CO 4	differentiate the various types , duties and responsibilities of salesmanship	Upto K3
		CO 5	describe the remuneration plans	Upto K3
21UCCN32	BUSINESS ORGANIZATION – I	CO 1	gain knowledge about business profession and employment	Upto K3
		CO 2	be acquainted with qualities of good	Upto K3



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			businessman	
		CO 3	get in–depth knowledge regarding partnership organization , its merits and demerits	Upto K2
		CO 4	develop knowledge about cooperative organization	Upto K3
		CO 5	analyse and differentiate cooperative with sole trader and partnership firm	Upto K3
21UCCC41	HUMAN RESOURCE MANAGEMENT	CO 1	explain human resource planning dealing with surplus and deficient manpower	Upto K3
		CO 2	describe the meanings of terminology and tools used in managing employees effectively	Upto K3
		CO 3	prepare a selection strategy for a specific job	Upto K3
		CO 4	gain knowledge in develop, analyse and apply advanced training strategies and specifications for the delivery of training program	Upto K3
		CO 5	compare and contrast the different techniques involved in the performance appraisal process.	Upto K3
21UCCC42	PYTHON	CO 1	write programs for solving problems. into functions	Upto K3



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		CO 2	decompose a Python program	Upto K3
		CO 3	represent compound data using Python lists, tuples, dictionaries.	Upto K3
		CO 4	read and write data from/to files in Python Programs	Upto K3
		CO 5	read, write, execute by hand simple Python programs.	Upto K3
21UCCC43	FINANCIAL ACCOUNTING – IV	CO 1	understand the preparation of fire insurance claim	Upto K3
		CO 2	prepare hire purchase and installment purchase system	Upto K3
		CO 3	acquire knowledge of preparation of branch accounts	Upto K3
		CO 4	gain knowledge about accounting practice prevailing in departmental accounting	Upto K3
		CO 5	understand the preparation of royalty accounts	Upto K3
21UCCA41	ENTREPRENEURSHIP	CO 1	understand the concept of entrepreneurship and its qualities	Upto K3
		CO 2	describe the functions and problems of women entrepreneurs	Upto K3
		CO 3	identify the Institutional finance to entrepreneurs	Upto K3



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		CO 4	analyse the various schemes available to entrepreneurs	Upto K3
		CO 5	build the preparation of project report	Upto K3
21UCCSP2	COMMERCE PRACTICAL	CO 1	know the concept of voucher, invoice, debit note and credit note	Upto K3
		CO 2	gain knowledge of preparation of statement of affairs of a joint stock company	Upto K3
		CO 3	acquire knowledge of filling up of equity share application form, share transferred deed and proxy form	Upto K3
		CO 4	understand the currencies of different Countries	Upto K3
		CO 5	acquire knowledge to fill up the PAN Card application, Nomination form and Assignment form	Upto K3
21UCCSP3	LAB: PYTHON	CO 1	know the concept of PYTHON	Upto K3
		CO 2	gain knowledge of preparation of Application creation.	Upto K3
		CO 3	acquire knowledge of tools in python	Upto K3
		CO 4	understand the concept	Upto K3
		CO 5	acquire knowledge to fill up the creation of designing works in code.	Upto K3
21UCCN41	ADVERTISING	CO 1	explain the various concepts of publicity,	Upto K3



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			salesmanship and promotion	
		CO 2	understand the functions of advertising	Upto K3
		CO 3	analyse the advantages to manufacturers, wholesalers and retailers	Upto K3
		CO 4	identify the various kinds of advertising	Upto K3
		CO 5	describe the merits and demerits of advertisement media	Upto K3
21UCCC51	INCOME TAX LAW & PRACTICES – I	CO 1	understand the various concepts of Income Tax and the sections of various exempted incomes	Upto K3
		CO 2	identify the exempted and taxable allowances, perquisites and to solve the problems based on Income from Salary	Upto K3
		CO 3	calculate the Net Annual Value under the head House property	Upto K3
		CO 4	compute the Income from Business and Profession	Upto K3
		CO 5	identify the capital assets and solve the problems of Capital gain and also the other sources incomes.	Upto K3
21UCCC52	COST ACCOUNTING	CO 1	recall various concepts of costing and costing methods	Upto K3
		CO 2	analyze the various elements of costing	Upto K3



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		CO 3	explain the labour wage payment system	Upto K3
		CO 4	outline the cost under process costing system	Upto K3
		CO 5	examine operational costing and reconciliation of cost and financial statements.	Upto K3
21UCCC53	CORPORATE ACCOUNTING – I	CO 1	analyse about the procedure for issue , forfeiture and reissue of shares	Upto K3
		CO 2	gain knowledge about the redemption of debentures	Upto K3
		CO 3	acquaint knowledge with the calculation of profit – prior incorporation.	Upto K3
		CO 4	compute the problems related to accounting treatment in the books of purchasing company and the vendor company	Upto K3
		CO 5	prepare the valuation of goodwill and shares	Upto K3
21UCCP54	LAB: VISUAL PROGRAMMING USING VB	CO 1	define Visual Basic concepts and properties	Upto K3
		CO 2	create Visual Basic forms with using properties	Upto K3
		CO 3	draft Visual Basic forms with using	Upto K3



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			functions	
		CO 4	prepare Visual Basic forms with using control array and tools	Upto K3
		CO 5	design Visual Basic forms with using graphics and control system	Upto K3
21UCCE51	VISUAL PROGRAMMING	CO 1	define Visual Basic concepts and properties	Upto K3
		CO 2	create Visual Basic forms with using properties	Upto K3
		CO 3	draft Visual Basic forms with using functions	Upto K3
		CO 4	design Visual Basic forms with using graphics and control system	Upto K3
		CO 5	prepare Visual Basic forms with using control array and tools	Upto K3
21UCCE52	E – COMMERCE	CO 1	understand the basic concept of E – Commerce and its applications	Upto K3
		CO 2	gain the knowledge on EDI	Upto K3
		CO 3	understand security and the web	Upto K3
		CO 4	gain knowledge on consumer aspects in E – Commerce	Upto K3
		CO 5	know and apply various digital payment	Upto K3



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			methods	
21UCCE53	MULTIMEDIA	CO 1	recall the tools and animation options	Upto K3
		CO 2	implement the animation techniques	Upto K3
		CO 3	compare the animation techniques in flash	Upto K3
		CO 4	select the appropriate software/tools for animation	Upto K3
		CO 5	describe flash and 3ds max interface	Upto K3
21UCCSP4	LAB: COMPUTERIZED ACCOUNTING USING TALLY	CO 1	understand the basic knowledge on creation of company in Tally software	Upto K3
		CO 2	develop a strong knowledge on ledger creation and group creation	Upto K3
		CO 3	utilise and understand how to create the vouchers with documents	Upto K3
		CO 4	create stock categories and unit measurement	Upto K3
		CO 5	understand the preparation of Financial statement and stock report and GST calculation	Upto K3
21UCCC61	INCOME TAX LAW & PRACTICES – II	CO 1	understand the term clubbing of income and set-off and carry forward of losses	Upto K3
		CO 2	identify the deduction of incomes under	Upto K3



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Contact No.: 87542 09994
 87542 08885

sourashtracollege.com
soucollege@gmail.com

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Course Code	Name of the Course	CO	CO Statement	Knowledge level (According to Blooms taxonomy)
			sections 80	
		CO 3	calculate the total taxable income of an individual and HUF	Upto K3
		CO 4	compute the total taxable income of Partners and Association of Persons.	Upto K3
		CO 5	gain knowledge of various assessment procedures and Permanent Account Number.	Upto K3
21UCCC62	WEB TECHNOLOGY	CO 1	understand the basic concepts of web programming using HTML.	Upto K3
		CO 2	understand the basic concepts using Java script	Upto K3
		CO 3	point out the importance of CSS to design the web pages	Upto K3
		CO 4	create and test dynamic web pages by the use of JavaScript	Upto K3
		CO 5	design a HTML file Using JSP	Upto K3
21UCCC63	CORPORATE ACCOUNTING – II	CO 1	understand the conceptual Knowledge of the accounting standards.	Upto K3
		CO 2	get basic knowledge of accounting procedures of Banking Companies.	Upto K3
		CO 3	gain basic knowledge of accounting procedures of Insurance Companies.	Upto K3
		CO 4	compute the accounting treatment of	Upto K3



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			Holding Companies.	
		CO 5	analyze the concepts and preparation of liquidators' final statements	Upto K3
21UCCE61	MANAGEMENT ACCOUNTING	CO 1	outline the various concepts relating to management accounting	Upto K3
		CO 2	analyze financial statements using ratio analysis	Upto K3
		CO 3	evaluate the working capital management of companies	Upto K3
		CO 4	compare various alternatives using marginal costing and decision making	Upto K3
		CO 5	analyze new budget and budgetary control for organizations	Upto K3
21UCCE62	COMPANY LAW	CO 1	understand the basic tenets of Company Law regime.	Upto K3
		CO 2	explain about the various flaws in existing Company Law and how the judiciary has responded to them.	Upto K3
		CO 3	develop clear understanding about the practical situations faced by the various stakeholders of Indian Company Law regime in their professional life.	Upto K3
		CO 4	have an awareness about the rights of affected parties (against irregular company	Upto K3



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			operations) in India.	
		CO 5	develop analytical perspective about the existing Company Law framework so as to enable them to suggest necessary changes.	Upto K3
21UCCE63	PRINCIPLES OF INSURANCE	CO 1	gain an insight into essential elements of insurance contract	Upto K3
		CO 2	acquire knowledge about the principles and procedure for taking a life policy	Upto K3
		CO 3	gain broader understanding of life insurance policy conditions and their claims	Upto K3
		CO 4	familiarized with the legal and financial aspects of marine insurance	Upto K3
		CO 5	able to identify the importance of fire insurance need	Upto K3
21UCCEV1	PROJECT & VIVA – VOCE	CO 1	receive detail knowledge about the basics of project application software	Upto K3
		CO 2	outline the various modules and its tables to get the result of the project designing	Upto K3
		CO 3	apply appropriate techniques to assess ongoing project performance.	Upto K3
		CO 4	differentiate the data base control model to meet organizational needs	Upto K3
		CO 5	evaluate the academic performance with the	Upto K3



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			practical knowledge in report writing	
21UCCSP5	LAB: WEB TECHNOLOGY	CO 1	understand and apply the various tags in HTML programs	Upto K3
		CO 2	apply knowledge in developing web applications.	Upto K3
		CO 3	analyze a web page and identify its elements and attributes.	Upto K3
		CO 4	assess a web page using HTML and Cascading Style sheets.	Upto K3
		CO 5	analyze and apply the role of languages like HTML, CSS, and JAVA Script protocols in the workings of web and web applications.	Upto K3
B.Sc (INFORMATION TECHNOLOGY)				
21UITC11	PROGRAMMING IN C	CO 1	apply the basic concepts and develop program to find solutions for simple problems	K1
		CO 2	design programs to solve complex problems by using suitable control statements	K2,K3
		CO 3	analyze the problem and design efficient program using functions	K1,K3
		CO 4	use array and structure to handle volume of data	K1,K3
		CO 5	use advanced data structures Pointers and	K2,K3



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			files for data processing	
21UITA11	DISCRETE STRUCTURES	CO 1	identify the basic concepts Set theory & Relations	K1
		CO 2	gain knowledge about Matrix Algebra	K2,K3
		CO 3	inculcate the idea of Logics using Truth tables	K1,K3
		CO 4	gain knowledge about the basic concepts of Graph Theory and its applications	K1,K3
		CO 5	acquire knowledge about Graph Theory, sub graphs and Connectedness solve relevant problems	K2,K3
21UITS11	DIGITAL COMPUTER FUNDAMENTALS	CO 1	describe the basics of Number Systems, Codes	K1
		CO 2	understand the concept of logic gates and Boolean Laws and Theorems.	K1,K2
		CO 3	develop the logic circuit using k-map and truth tables.	K2,K3
		CO 4	know the design of multiplexer, demultiplexer, decoder and encoder.	K2,K3
		CO 5	know binary addition and apply the concept of flipflop.	K2,K3



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21UITC21	FUNDAMENTALS OF DATA STRUCTURES	CO 1	understand about Needs and Types of Data Structures and Categories of Problem Solving	K1
		CO 2	get the Knowledge about Stack and Their implementation and representation	K2,K3
		CO 3	learn about Queue, Dequeue and the implementation of Linkedlist	K3
		CO 4	understand about the various types of sorting	K3
		CO 5	get the knowledge of Trees and Binary Trees and Tree Traversals	K2,K3
21UITA21	STATISTICS	CO 1	identify the basic concepts Central tendencies	K1
		CO 2	gain knowledge about Measures of Dispersion	K2,K3
		CO 3	inculcate the idea of Curve Fitting, Correlation & Regression	K1,K3
		CO 4	gain knowledge about the basic concepts of Probability & Random variables	K1,K3
		CO 5	gain knowledge about theoretical Discrete & Continuous distributions	K2,K3
21UITS21	COMPUTER ORGANIZATION &	CO 1	acquire knowledge on registers, instructions , timing and control	K1



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	ARCHITECTURE			
		CO 2	understand and explain various types of instruction format, addressing modes, data transfer and manipulation instruction and apply the basic concepts to develop assembler program	K2,K3
		CO 3	identify the memory requirement of a CPU and understands the working principles of parallel processing and pipeline processing	K1,K2
		CO 4	gain knowledge on usage of I/O interfaces and various types of data transfers	K1, K2
		CO 5	understand various types of memory and its organizations	K1
21UITC31	OBJECT ORIENTED PROGRAMMING USING C++	CO 1	gain knowledge about object oriented programming concept and know operators and expressions	Upto K3
		CO 2	understand and illustrate functions, classes and objects	Upto K3
		CO 3	develop a practical knowledge about constructor, operator overloading and type conversion	Upto K3
		CO 4	learn various types of inheritance	Upto K3



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		CO 5	develop application using files and know the concept of error handling and files	Upto K3
21UITCP3	LAB : OBJECT ORIENTED PROGRAMMING USING C++	CO 1	write programs using simple concepts of C++	Upto K3
		CO 2	write programs using OOP's paradigm – Classes and objects	Upto K3
		CO 3	applying constructors , destructors and overloading – functions	Upto K3
		CO 4	utilize operators and Implementing types of Inheritance.	Upto K3
		CO 5	Design to write program using Files (Sequential and Random)	Upto K3
21UITA31	OPERATIONS RESEARCH	CO 1	understand about various models, methods, tools and techniques and scope of OR.	Upto K3
		CO 2	understand and apply slack and surplus variables in LPP , Mathematical formulation and solving Graphically	Upto K3
		CO 3	apply artificial variable technique in two–phase method and Understand Duality concepts in LPP	Upto K3
		CO 4	understand Assignment Problem and apply	Upto K3



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			in Travelling Salesman Problem	
		CO 5	understand various methods to find initial basic feasible solution and determine Optimal solution	Upto K3
21UITSP1	LAB : OFFICE AUTOMATION	CO 1	understand the concept of text manipulation, numbering and bullet.	Upto K3
		CO 2	understand the usage of footer and head in word processor.	Upto K3
		CO 3	learn about basic of excel or work sheet. Use of formulae and built-in function.	Upto K3
		CO 4	develop the power point presentation in effective manner	Upto K3
		CO 5	use wizards to develop presentations	Upto K3
21UITN31	INTRODUCTION TO INFORMATION SYSTEM	CO 1	understand the concept of various classification of computers.	Upto K3
		CO 2	understand the concept of memory types	Upto K3
		CO 3	learn about various input and output devices and technologies	Upto K3
		CO 4	understand the concept of software and programming languages.	Upto K3
		CO 5	apply the concept of network topologies.	Upto K3



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21UITC41	PROGRAMMING IN JAVA	CO 1	acquire fundamental knowledge about OOP Concepts and its applications.	Upto K3
		CO 2	understand java operators and expressions and statement.	Upto K3
		CO 3	understand about classes and methods and method overloading and overriding.	Upto K3
		CO 4	apply the knowledge in Inheritance and Packages projects.	Upto K3
		CO 5	develop application using multithreading concept.	Upto K3
21UITCP4	LAB: JAVA PROGRAMMING	CO 1	acquire advanced knowledge about OOP Concepts and its applications.	Upto K3
		CO 2	understand Java structure and Java virtual machine and data types.	Upto K3
		CO 3	understand about classes and methods and method overloading and overriding.	Upto K3
		CO 4	apply exception handling mechanism in projects.	Upto K3
		CO 5	develop application using multithreading concept. Applet development	Upto K3
21UITA41	NUMERICAL METHODS	CO 1	acquire knowledge about Iteration, Bisection, RegulaFalsi and Newton Raphson methods.	Upto K3



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		CO 2	understand Gauss Elimination and Gauss Seidal methods and apply Curve fitting method of least squares.	Upto K3
		CO 3	understand about Newton's Interpolation and Lagrange's Interpolation formulae also apply in Numerical Problems.	Upto K3
		CO 4	apply Newton's forward and backward difference formulae and applying Trapezoidal rule, Simpson's rule in Numerical Problems	Upto K3
		CO 5	understand Euler's method, Taylor's Series method and Runge – Kutta method and their applications.	Upto K3
21UITSP2	LAB : MULTIMEDIA	CO 1	change image using object tools	Upto k3
		CO 2	display the text to 3D effects ,coloring	Upto k3
		CO 3	merge images, making photo galleries	Upto k3
		CO 4	move objects using guide layer	Upto k3
		CO 5	develop morphing an object ,masking a text	Upto k3
21UITN41	INTRODUCTION TO MS – OFFICE	CO 1	know about Formatting , Layouts Documents	Upto K3
		CO 2	learn about creation of documents	Upto K3



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		CO 3	understand about Functions, Formulas, bars	Upto K3
		CO 4	learn about labeling, Aligning text	Upto K3
		CO 5	gain knowledge about Presentation	Upto K3
21UITC51	OPERATING SYSTEM	CO 1	remember the Fundamental concepts of Operating System	Upto K3
		CO 2	apply the basic concepts of process management, scheduling algorithm and multithreading models.	Upto K3
		CO 3	analyze the synchronization and Deadlock process.	Upto K3
		CO 4	explain the purpose of storage management with page segmentation, allocation of frames and Thrashing	Upto K3
		CO 5	discuss the Files allocation methods and Implementation and swap management	Upto K3
21UITC52	TCP/IP	CO 1	understand about the basics concepts of Networking like devices, topology and networking	Upto K3
		CO 2	analyze various switching techniques, Networking Sources, and Apply in IPV4 Addressing	Upto K3
		CO 3	know Transport Layer Services, TCP Services, Client Server Paradigm	Upto K3



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		CO 4	analyse DHCP operation and DNS	Upto K3
		CO 5	discuss FTP and Web Documents	Upto K3
21UITC53	PYTHON PROGRAMMING	CO 1	gain knowledge about basics of Python.	Upto K3
		CO 2	understand the Operators, List and Tuples.	Upto K3
		CO 3	learn about the Decision making and Loop control statements	Upto K3
		CO 4	learn about the Function and String	Upto K3
		CO 5	apply the Concept File Handling and Exception Handling	Upto K3
21UITCP5	LAB: PYTHON PROGRAMMING LAB	CO 1	understand Basic concepts of python program and its execution.	Upto K3
		CO 2	understand python structure and execute its application.	Upto K3
		CO 3	understand about Operators and slicing technique.	Upto K3
		CO 4	execute the programs using Decision making and looping statements.	Upto K3
		CO 5	develop application using File Handling and Exception Handling	Upto K3
21UITE51	MOBILE COMPUTING	CO 1	understand the Basic knowledge of Mobile	Upto K3



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			computing architecture.	
		CO 2	learn about the Evolution of Telephony	Upto K2
		CO 3	understand about the Data services in GPRS	Upto K2
		CO 4	know about the Wireless Application protocol	Upto K3
		CO 5	apply the Wireless technology in Wifi Application	Upto K3
21UITE52	BIG DATA FUNDAMENTALS	CO 1	understand about fundamental concepts of Big data	Upto K2
		CO 2	describe Big data Adoption and Planning	Upto K2
		CO 3	understand about Big data Storage Concepts	Upto K3
		CO 4	utilize Big data and Processing Concepts	Upto K3
		CO 5	understand about Big Data Analysis Techniques	Upto K3
21UITE53	BIOMETRICS	CO 1	understand the Authentication Techniques and Key Elements of Biometrics	Upto K2
		CO 2	analyze the Fingerprint and Hand Geometry theoretically	Upto K2
		CO 3	get the knowledge of Iris and Retina Scanning and Signature Recognition and Key stroke Dynamics	Upto K2



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		CO 4	analyze about Hand Grip, Brain Wave pattern and their future	Upto K3
		CO 5	discuss the future of Biometrics and its Testing and Evaluation	Upto K3
21UITSP3	LAB:VB DOT NET	CO 1	get the knowledge of simple .Net Console application programs	Upto K3
		CO 2	apply console application structure in.Net programming	Upto K3
		CO 3	obtain the knowledge of simple .Net Windows Application	Upto K3
		CO 4	use various menu controls using windows application in .Net program	Upto K3
		CO 5	connect various records using Data Grid control and search and retrieve them	Upto K3
21UITSP4	LAB: OS (LINUX)	CO 1	understand Linux, basics of shell, files, directories and permission of files	Upto K3
		CO 2	explain about shell Scripts and shell filters	Upto K3
		CO 3	know basics of shell programming, various looping	Upto K3
		CO 4	understand about system calls, low level , processes and signals	Upto K3
		CO 5	analyse the Concept of program development, control flow, functions and	Upto K3



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			procedures	
21UITC61	SOFTWARE ENGINEERING	CO 1	understand the Planning and development process	Upto K3
		CO 2	learn about the Software cost Estimation techniques	Upto K3
		CO 3	understand how to prepare SRS and requirement specifications	Upto K3
		CO 4	acquire the concepts of software designing and notations and	Upto K3
		CO 5	apply the verification and validation techniques in software testing	Upto K3
21UITC62	RELATIONAL DATABASE MANAGEMENT SYSTEM	CO 1	remember the Quality of Information, Introduction of DBMS, RDBMS Characteristics, Types of DBMS	Upto K3
		CO 2	know about Integrity Constraints .Apply the basic concepts of Database Architecture	Upto K3
		CO 3	know about Data Modeling. Analyze the Data Normalization	Upto K3
		CO 4	apply the Basic concept of SQL– Tables, Views and Indexes. Discuss about Queries ,	Upto K3



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			Sub Queries	
		CO 5	explain the application of Aggregate functions Discuss about Integrity Constraints and PL/SQL	Upto K3
21UITCP6	LAB: ORACLE	CO 1	practice creation of Tables and usage the Data Definition Language queries, Data Manipulation Language queries	Upto K3
		CO 2	practice the Data Manipulation Language queries with Set operation , Mathematical calculation	Upto K3
		CO 3	practice queries using various Aggregate functions, sub-queries	Upto K3
		CO 4	practice basic PL/SQL programs and also use with Exception Handling	Upto K3
		CO 5	practice simple PL/SQL Programs using Tables, Joins, Triggers, Cursors	Upto K3
21UITCP7	LAB: HTML & PHP	CO 1	understand the basic concepts of HTML	Upto K3
		CO 2	learn about the basic concepts of PHP	Upto K3
		CO 3	understand about the Looping statements and User Defined functions	Upto K3
		CO 4	know about the PHP server side scripting.	Upto K3
		CO 5	acquire the knowledge for the development of webpage	Upto K3



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21UITE61	PRINCIPLES OF INFORMATION SECURITY	CO 1	understand the Basic knowledge of Information Security in Professionals.	Upto K3
		CO 2	understand the Security Purpose to access the data.	Upto K3
		CO 3	learn about the Managing the Risk control and its Strategies.	Upto K3
		CO 4	know about the Plan, security policy, Security Technology	Upto K3
		CO 5	implement the security using Firewalls and Biometric Access Tools.	Upto K3
21UITE62	SOFTWARE TESTING	CO 1	learn about the phases of Software Project and SDLC	Upto K3
		CO 2	understand the Black Box Testing Techniques	Upto K3
		CO 3	learn about the System and summary of Testing Phases	Upto K3
		CO 4	learn and apply technology in Performance Testing and Regression Testing in software	Upto K3
		CO 5		Upto K3



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			implement Test Planning, Execution and Reporting.	
21UITE63	ETHICAL HACKING	CO 1	understand the Basic knowledge of Hacking and types of attacks	Upto K3
		CO 2	explain about the Foot printing methods ,tool and ensure to protect environment.	Upto K3
		CO 3	apply to safe ethical techniques in the world wide web to be beneficial to the society.	Upto K3
		CO 4	examine and understand the knowledge about various techniques cracking tools , Keyloggers and spyware	Upto K3
		CO 5	understand about penetration testing and evaluate, improve the testing.	Upto K3
BACHELOR OF COMPUTER APPLICATIONS				
21UCAC11	PROGRAMMING IN C	CO 1	identify the basic concepts needed for program development	K1
		CO 2	apply the basic concepts and develop program to find solutions for simple problems	K2,K3
		CO 3	design programs to solve complex problems by using suitable control statements	K1,K3
		CO 4	analyze the problem and design efficient program using functions	K1,K3



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Contact No.: 87542 09994

87542 08885

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		CO 5	use array and structure to handle volume of data	K2,K3
21UCAA11	DISCRETE MATHEMATICS	CO 1	identify the basic concepts Set theory & Relations	K1
		CO 2	gain knowledge about Matrix Algebra	K2,K3
		CO 3	inculcate the idea of Logics using Truth tables	K1,K3
		CO 4	gain knowledge about the basic concepts of Graph Theory and its applications	K1,K3
		CO 5	array and structure to handle volume of data	K2,K3
21UCAS11	DIGITAL COMPUTER FUNDAMENTALS	CO 1	describe the basics of Number Systems, Codes and logic gates	K1
		CO 2	understand the concepts of Boolean Algebra and Karnaugh Maps.	K1,K2
		CO 3	analyze the purpose and applications of Combinational and Sequential Logic	K2,K3
		CO 4	discuss the various types of Combinational and Sequential Logic.	K2,K3
		CO 5	explain the purpose, working principles and timing diagram of Registers and Counters.	K2,K3
21UCAC21	DATA STRUCTURES	CO 1	identify data structures needed to solve	K1



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	AND ALGORITHMS		specific problems	
		CO 2	analyze the data structures for effective use in problem solving	K2,K3
		CO 3	design and develop efficient algorithms in terms of Space and Time	K3
		CO 4	troubleshoot algorithms	K3
		CO 5	analyze time complexity of algorithms	K2,K3
21UCAA21	COMPUTER BASED FINANCIAL ACCOUNTING	CO 1	understand the basic concept and conventions of accounting principles	K1,K2
		CO 2	maintain the various subsidiary books and its purpose	K2,K3
		CO 3	understand and preparing the final accounts and its purpose	K3
		CO 4	ascertain the various ratio using various accounting statement	K3
		CO 5	understand the tally software and its implementation	K2,K3
21UCAS21	COMPUTER ORGANIZATION & ARCHITECTURE	CO 1	acquire knowledge on registers, instructions , timing and control	K1
		CO 2	understand and explain various types of	K2,K3



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			instruction format, addressing modes, data transfer and manipulation instruction and apply the basic concepts to develop assembler program	
		CO 3	identify the memory requirement of a CPU and understands the working principles of parallel processing and pipeline processing	K1,K2
		CO 4	knowledge on usage of I/O interfaces and various types of data transfers	K1, K2
		CO 5	understand various types of memory and its organizations	K1
21UCAC31	OBJECT ORIENTED PROGRAMMING USING C++	CO 1	recall Procedure-oriented programming and state the evolution of Object oriented programming	Upto K3
		CO 2	identify basic concepts of OOP, benefits and its applications.	Upto K3
		CO 3	interpret object oriented programs using classes and objects.	Upto K3
		CO 4	demonstrate object oriented programs that can focus on reusability – Inheritance	Upto K3
		CO 5	Apply, compile time polymorphism and runtime polymorphism with pointers and virtual functions and use File concepts	Upto K3



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21UCAA31	OPERATIONS RESEARCH	CO 1	state the history of Operation Research	Upto K3
		CO 2	describe Linear Programming Problem and Solve by using Graphical method	Upto K3
		CO 3	solve Simplex method and Big – M method	Upto K3
		CO 4	demonstrate and solve Assignment problems and Travelling Salesman problem	Upto K3
		CO 5	illustrate various methods in Transportation problem	Upto K3
21UCAN31	INTRODUCTION TO INFORMATION TECHNOLOGY	CO 1	understand the basic of Information Systems and its applications	Upto K3
		CO 2	discuss CPU and Numbering system	Upto K3
		CO 3	understand Input/Output devices and storage devices.	Upto K3
		CO 4	know about software and operating systems	Upto K3
		CO 5	apply and use internet and WWW.	Upto K3
21UCAC41	PROGRAMMING IN JAVA	CO 1	outline the basic concepts of Object oriented programming and java evolution and features	Upto K3



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		CO 2	recognize the basic concepts of OOP, java features and its applications.	Upto K3
		CO 3	illustrate object oriented programs using classes and objects and Applet and Graphics programs.	Upto K3
		CO 4	apply object oriented programs ,multithreading, exception handling, interface, package and applet program that can focus on java features	Upto K3
		CO 5	demonstrate compile time polymorphism and runtime polymorphism with overloading and interface and File concepts	Upto K3
21UCAA41	NUMERICAL METHODS	CO 1	explain and solve different methods in Algebraic and Transcendental equations	Upto K3
		CO 2	summarize and solve the various methods involved in Simulation equation	Upto K3
		CO 3	demonstrate the different methods involved in Interpolation	Upto K3
		CO 4	illustrate and solve the various methods in Numerical Differentiation and Integration	Upto K3
		CO 5	discuss and solve the different methods in Differential Equation	Upto K3
21UCAN41	WEB PROGRAMMING	CO 1	acquire knowledge about various HTML basic tags, Paragraph and Formatting tags.	Upto K3



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Course Code	Name of the Course	CO	CO Statement	Knowledge level (According to Blooms taxonomy)
		CO 2	understand about Lists, marquee, ruler, break and data definition tags and apply in web programming.	Upto K3
		CO 3	understand about Table building tags and its attributes and apply in Webpage creation.	Upto K3
		CO 4	apply anchor, link, image and frame tags.	Upto K3
		CO 5	understand and develop sample web application using Form tag, input tag and its components	Upto K3
21UCAC51	SOFTWARE ENGINEERING	CO 1	understand the Planning and development process	Upto K3
		CO 2	learn about the Software cost Estimation techniques	Upto K3
		CO 3	understand how to prepare SRS and requirement specifications	Upto K3
		CO 4	acquire the concepts of software designing and notations and	Upto K3
		CO 5	apply the verification and validation techniques in software testing	Upto K3
21UCAC52	RELATIONAL DATABASE MANAGEMENT SYSTEM	CO 1	remember the Quality of Information, Introduction of DBMS, RDBMS Characteristics, Types of DBMS	Upto K3



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		CO 2	know about Integrity Constraints and apply the basic concepts of Database Architecture	Upto K3
		CO 3	know about Data Modeling and analyze the Data Normalization	Upto K3
		CO 4	apply the Basic concept of SQL– Tables, Views and Indexes and discuss Queries , Sub Queries	Upto K3
		CO 5	explain the application of Aggregate functions and discuss Integrity Constraints and PL/SQL	Upto K3
21UCACP5	WEB TECHNOLOGY LAB	CO 1	design a web page using different tags using HTML	Upto K3
		CO 2	design for a web page using tables, links, frames etc.	Upto K3
		CO 3	analyze the web page using different validation techniques using JAVA Scripts	Upto K3
		CO 4	apply the web page validation techniques using JAVA Script Event Handling	Upto K3
		CO 5	apply the web page validation techniques using VB Script Event Handling using simple form entry and ticket booking	Upto K3
21UCAC53	COMPUTER NETWORKS	CO 1	remember the Fundamental concepts of Network Hardware and Software, Reference Models	Upto K3



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		CO 2	analyze the concept of Wireless Transmission, Communication Satellites by applying Physical Layer	Upto K3
		CO 3	apply Data link Layer Error Detection and Correction and analyze different Protocols with Data link Layer	Upto K3
		CO 4	analyze Network layer with different Algorithms . Discuss Transport Layer with Protocols	Upto K3
		CO 5	discuss Application Layer, DNS, World Wide web and Multimedia	Upto K3
21UCAE51	WEB TECHNOLOGY	CO 1	remember the Overview of HTML with its structure and basic formatting tags.	Upto K3
		CO 2	apply different types of List and Marquee tag with attributes.	Upto K3
		CO 3	apply different table building tags with attributes	Upto K3
		CO 4	discuss Linking Pages, Image tag and Frame tag attributes	Upto K3
		CO 5	discuss Form tag , input tag and webpage creation	Upto K3
21UCAE52	MULTIMEDIA AND ITS APPLICATIONS	CO 1	remember the Fundamental concepts of Multimedia Streams, Literature, Global Structure and Medium	Upto K3



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		CO 2	analyze the basic concepts of Sound , Video and Animation, Apply it in Computer Image Processing and Computer Based Animation	Upto K3
		CO 3	analyze the storage space in Data Compression, discuss about different storage Media and Multimedia Operating system	Upto K3
		CO 4	learn about different Networking Systems, Layers and Services Multimedia Communication Systems.	Upto K3
		CO 5	discuss user Interface Synchronization, Abstraction levels and analyze about higher programming languages and apply in recent trends.	Upto K3
21UCAE53	MOBILE COMPUTING	CO 1	remember various hand held devices in Mobile Computing in different operating systems.	Upto K3
		CO 2	identify various smart devices and their appliances. Apply them in home networking and Automotive computing.	Upto K3
		CO 3	acquire the knowledge of various internet protocols and formats. Apply in various WAP architecture.	Upto K3
		CO 4	know Voice technology Trends and standardization.	Upto K3



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		CO 5	analyze about connectivity in wireless communication in short range.	Upto K3
21UCAS51	QUANTITATIVE APTITUDE	CO 1	remember Numbers and to calculate HCF and LCM	Upto K3
		CO 2	refresh Problem on Numbers and Ages	Upto K3
		CO 3	calculate problems on Percentages and Profit and Loss	Upto K3
		CO 4	find the Simple Interest and Compound Interest and discuss the Odd Man Out reasonability	Upto K3
		CO 5	discuss Areas, Surface areas and Volumes of different shapes.	Upto K3
21UCASP3	LAB: PL/SQL	CO 1	understand creation of Tables and usage of the Data Definition Language queries, Data Manipulation Language queries	Upto K3
		CO 2	know the Data Manipulation Language queries with Set operation , Mathematical calculation	Upto K3
		CO 3	respond to queries using various Aggregate functions, sub-queries	Upto K3
		CO 4	write basic PL/SQL programs	Upto K3
		CO 5	understand simple PL/SQL Programs using Tables	Upto K3



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21UCAC61	PROGRAMMING IN PYTHON	CO 1	know about the basic of PYTHON and its operators	Upto K3
		CO 2	understand the PYTHON Operators, List and Tuples.	Upto K3
		CO 3	learn about the Decision making and Loop control statements and apply them in PYTHON	Upto K3
		CO 4	acquire knowledge on various Functions and Strings in PYTHON	Upto K3
		CO 5	apply the Concept File Handling and Exception Handling in PYTHON	Upto K3
21UCACP6	LAB – VI: PYTHON PROGRAMMING	CO 1	know the basic concepts of python program and their execution.	Upto K3
		CO 2	understand python structure and execute its application	Upto K3
		CO 3	understand about Operators and slicing technique	Upto K3
		CO 4	execute the programs using Decision making and looping statements.	Upto K3
		CO 5	develop application using File Handling and Exception Handling	Upto K3
21UCAC62	OPERATING SYSTEM	CO 1	remember the Fundamental concepts of Operating System	Upto K3



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		CO 2	apply the basic concepts of process management, scheduling algorithm and multithreading models.	Upto K3
		CO 3	analyze the synchronization and Deadlock process.	Upto K3
		CO 4	explain the purpose of storage management with page segmentation, allocation of frames and Thrashing	Upto K3
		CO 5	discuss the I/O system and Case study.	Upto K3
21UCACP7	LAB – VII: OPEN SOURCE TECHNOLOGY (PHP)	CO 1	understand the basic concepts of HTML	Upto K3
		CO 2	learn about the basic concepts of PHP	Upto K3
		CO 3	understand about the Looping statements and User Defined functions	Upto K3
		CO 4	know about the PHP server side scripting	Upto K3
		CO 5	acquire the knowledge in developing webpage	Upto K3
21UCAE61	PRINCIPLES OF INFORMATION SECURITY	CO 1	receive the Basic knowledge of Information Security in Professionals.	Upto K3
		CO 2	understand the Security Purpose to access	Upto K3



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			the data.	
		CO 3	learn about Managing the Risk control and its Strategies.	Upto K3
		CO 4	know about the Plan, security policy, Security Technology	Upto K3
		CO 5	implement the security using Firewalls and Biometric Access Tools.	Upto K3
21UCAE62	DATA MINING	CO 1	understand the concept of ware housing, scheme, architecture of data model.	Upto K3
		CO 2	understand the concept of data mining and various algorithm.	Upto K3
		CO 3	analyse the concept of clustering and its techniques, decision trees etc.	Upto K3
		CO 4	comprehend the concept of other techniques, neural network and genetic algorithm	Upto K3
		CO 5	acquire knowledge on the concept of web mining and hierarchy of categories of clustering	Upto K3
21UCAE63	UNIX AND SHELL PROGRAMMING	CO 1	receive knowledge on the introduction of UNIX, basics of shell, files, directories and permission of files	Upto K3
		CO 2	explain about shell command and shell filters	Upto K3
		CO 3	acquire knowledge on the basics of shell	Upto K3



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			programming, various looping	
		CO 4	understand about system calls, low level , processes and signals	Upto K3
		CO 5	understand the concept of program development, control flow, functions and procedures	Upto K3
B.A. TAMIL				
21UTLC11	இக்கால இலக்கியம்	CO 1	இக்கால இலக்கிய வகைமைகளை அறிந்து கொள்ளுதல்	K1, K2
		CO 2	இக்கால இலக்கிய மரபுகளை தெரிந்து கொள்வர்	K1, K2
		CO 3	இக்கால இலக்கிய உத்திகளைப் புரிந்துகொள்ளல்	K1, K2
		CO 4	இக்கால இலக்கிய மரபுகள் குறித்த விமர்சனப்பார்வை பெறல்	K3
		CO 5	படைப்பாக்க முயற்சியில் ஈடுபட ஆர்வம் கொள்ளல்	K3
21UTLC12	இலக்கணம் எழுத்து (நன்னூல்)	CO 1	தமிழ் இலக்கண மரபு குறித்து அறிந்துகொள்ளல்	K1, K2
		CO 2	பழந்தமிழ் இலக்கிய பனுவல்களில் இடம் பெற்றுள்ள புணர்ச்சியைப் புரிந்து கொள்ளல்	K1, K2
		CO 3	ஒற்று மிகும், மிகா இடங்களைத் தெரிந்து கொள்ளுதல்	K1, K2
		CO 4	தமிழில் தவறின்றி எழுதும் திறனைப் பெறுதல்	K3



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		CO 5	பழந்தமிழ் இலக்கியங்களை இலக்கண அடிப்படையில் புரிந்து கொண்டு அவ்விலக்கியங்களை வாசித்து அனுபவிக்கப்பழகுதல்	K3
21UTLA11	தமிழக வரலாறும் பண்பாடும் - I	CO 1	தமிழனத்தின் நீண்ட வரலாற்றினை அறிந்து கொள்ளல்	K1, K2
		CO 2	இலக்கிய தரவுகளுக்கும் வரலாற்றுக்குமான பொறுத்தப்பாடுகளைப் புரிந்து கொள்ளல்	K1, K2
		CO 3	தமிழகத்தில் நிலவிவந்த சமயம், அரசு, சமூகம் உள்ளிட்டவற்றால் காலந்தோறும் ஏற்பட்டு வந்த மாற்றங்களைப் புரிந்துகொள்ளல்	K1, K2
		CO 4	காலந்தோறும் ஏற்பட்டு வந்த மாற்றங்களுக்கான பின்னணிகளைப் புரிந்துகொள்ளுதல்	K2
		CO 5	தமிழ் சமூகத்தின் பண்பாட்டு அரசியல் வரலாற்றை கட்டமைக்க இலக்கியத் தரவுகளை பயன்படுத்திக் கொள்ளும் முறையைப் புரிந்து கொள்ளுதல்	K3
21UTLS11	இதழியல் கலை	CO 1	தமிழ் ஊடகங்களின் வளர்ச்சி வரலாற்றை தெரிந்துகொள்ளல்	K1, K2
		CO 2	ஊடகங்களின் பணி மற்றும் கடமை குறித்த தெளிவினைப் பெறுதல்	K1, K2
		CO 3	தற்கால தமிழ் ஊடகங்களின் சமூக, இலக்கிய அரசியல் பார்வையைப் புரிந்துகொள்ளுதல்.	K2
		CO 4	ஊடகத்துறையில் வேலைவாய்ப்பினைப்	K1, K3



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Contact No.: 87542 09994

sourashtracollege.com

87542 08885

soucollege@gmail.com

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			பெறும் பகுதியினை அடைதல்	
21UTLC21	பக்தி இலக்கியம்	CO 1	பக்தி இயக்கக்காலத்தில் உருப்பெற்ற புதிய இலக்கிய வடிவம் மற்றும் இலக்கிய நயம் குறித்து அறிந்து கொள்ளல்	K1, K2
		CO 2	சமய கொள்கைகள் சமய நம்பிக்கைகள் உள்ளிட்டவற்றை அறிந்து கொள்ளல்	K1, K2
		CO 3	பக்தி இலக்கியங்களில் வெளிப்படுத்தும் பக்தி திறனை புரிந்துகொள்ளல்	K2
		CO 4	பக்தி இயக்ககால கட்டுத்தின் சமூக பண்பாட்டை வரலாற்றினை இனம் கண்டுகொள்ளல்	K2
		CO 5	பிற்கால பக்தி பனுவல்களை பழைய பனுவல்களுடன் பொருத்திப் பார்க்கும் திறனை பெறல்.	K3
21UTLC22	இலக்கணம் நன்னூல் சொல்	CO 1	தமிழ்ச்சொல் இலக்கண மரபு குறித்து அறிந்து கொள்ளல்	K1, K2
		CO 2	தமிழ்ச்சொல் வகைகளைப் புரிந்து கொள்ளல்	K1, K2
		CO 3	பழந்தமிழ் இலக்கிய பனுவல்களில் இடம் பெற்றுள்ள தொடர் அமைப்பினை புரிந்து கொள்ளல்	K1, K2
		CO 4	தமிழில் தவறின்றி எழுதும் திறனைப் பெறல்	K3
		CO 5	பழந்தமிழ் இலக்கியங்களை சொல் இலக்கண அடிப்படையில் புரிந்துகொண்டு அவ்விலக்கியங்களை வாசித்து அனுபவிக்கப் பழகுவதல்.	K3
21UTLA21	தமிழக வரலாறும் பண்பாடும்	CO 1	தமிழ் நிலத்தின் நெடிய வரலாற்றினை	K1, K2



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	- II		அறிந்து கொள்ளல்	
		CO 2	இலக்கிய தரவுகளுக்கும் வரலாற்றுக்குமான பொருத்தப்பாடுகளை புரிந்து கொள்ளல்	K1, K2
		CO 3	தமிழகத்தில் நிலவி வந்த சமயம், அரசு, சமூகம் காலந்தோறும் ஏற்பட்ட வந்த மாற்றங்களை புரிந்து கொள்ளல்	K1, K2
		CO 4	காலந்தோறும் ஏற்பட்டு வந்த மாற்றத்திற்கான பிண்ணனிகளை புரிந்து கொள்ளல்	K2
		CO 5	தமிழ் சமூகத்தின் பண்பாட்டு அரசியல் வரலாற்றைக் கட்டமைக்க இலக்கியத் தரவுகளை பயன்படுத்திக் கொள்ளும் முறையை புரிந்து கொள்ளல்	K3
21UTLS21	தமிழர் கலைகள்	CO 1	தமிழர் வளர்த்த கலைகளின் வளர்ச்சி மற்றும் வரலாற்றினைத் தெரிந்து கொள்ளல்	K1, K2
		CO 2	கலைகளுக்கும், இலக்கியங்களுக்கும் உள்ளத் தொடர்புகளைப் புரிந்து கொள்ளல்	K1, K2
		CO 3	கலைகளுக்கும், தமிழர் பண்பாட்டிற்கும் உள்ள தொடர்புகளை விளங்கிக் கொள்ளல்	K2
		CO 4	கலைகளுக்கும், அரசுகளுக்கும் உள்ள தொடர்புகளை புரிந்து கொள்ளல்	K2
		CO 5	சமகால கலை வடிவங்களோடு, பழைய கலை வடிவங்களைப் பொருத்திப் பார்க்கும் திறனை தருதல்	K3
21UTLC31	காப்பிய இலக்கியம்	CO 1	காப்பிய காலத்தில் உருப்பெற்ற புதிய இலக்கிய வடிவம் மற்றும் இலக்கிய நயம் குறித்து அறிந்து கொள்ளல்	Upto K3



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		CO 2	தமிழ்க்காப்பிய கொள்கைகள், காப்பிய உத்திகள் உள்ளிட்டவற்றை அறிந்து கொள்ளல்	Upto K3
		CO 3	காப்பிய இலக்கியங்கள் வெளிப்படுத்தும் கதை கூறும் முறையினை புரிந்து கொள்ளல்	Upto K3
		CO 4	காப்பியங்கள் தோற்றம் பெற்ற காலத்தின் சமூகப்பண்பாட்டு வரலாற்றினை இனம் கண்டு கொள்ளல்	Upto K3
		CO 5	முற்காப்பியங்களைப் பிற்கால காப்பியங்களோடு ஒப்பிட்டுப் பார்க்கும் திறனைப் பெறுதல்	Upto K3
21UTLC32	நம்பியகப்பொருள் பொருள் இலக்கணம்	CO 1	நம்பியகப்பொருள் கட்டமைக்கும் அக இலக்கண திணை, துறை கூற்று மரபுகளை உணர்ந்து கொள்ளல்	Upto K3
		CO 2	நம்பியகப்பொருள் கட்டமைக்கும் செயல் உறுப்புகளை உணர்ந்து கொள்ளல்	Upto K3
		CO 3	அக இலக்கியங்களுக்கும், அக இலக்கண மரபுகளுக்கும் உள்ள பொருத்தப்பாடுகளைப் புரிந்து கொள்ளல்	Upto K3
		CO 4	செய்யுள் உறுப்புகளின் அடிப்படையில் அக இலக்கியங்களைப் புரிந்து கொள்ளல்	Upto K3
		CO 5	நம்பியகப்பொருள் கட்டமைக்கும் அக இலக்கண மரபை இலக்கியங்களில் பொருத்திப் பார்க்கும் திறனைப் பெறுதல்	Upto K3
21UTLA31	சுற்றுலாவியல்	CO 1	சுற்றுலாவின் நோக்கம் மற்றும் வகைகளை எடுத்துரைத்தல்	Upto K3
		CO 2	சுற்றுலாத்துறையில் ஏற்படும் மாற்றங்களை திறனாய்வு செய்தல்	Upto K3



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		CO 3	பொருளாதாரம் சுற்றுச்சூழல் மேம்பாட்டில் சுற்றுலாத்துறையின் பங்களிப்பை விளக்குதல்	Upto K3
		CO 4	புராணச்சின்னங்களின் இன்றியமையாமையை எடுத்துரைத்தல்	Upto K3
		CO 5	சுற்றுலாத்துறையை மேம்படுத்த வழிகாட்டுதல்	Upto K3
21UTLS31	கோயிற்கலைகள்	CO 1	கோயிற்கலை வரலாற்றினை அறிமுகம் செய்தல்	Upto K3
		CO 2	கோயிற்கலை வெளிப்படுத்தும் புராண இதிகாசங்களை புரிந்து கொள்ளல்	Upto K3
		CO 3	மாணவர்களின் கலை நுட்பத்தினை மேம்பட துணை செய்தல்	Upto K3
		CO 4	சிற்பம், ஓவியம், குடைவரை ஆகியவற்றிற்கு இடையே உள்ள கலைநுட்பங்களை பகுத்தறிதல்	Upto K3
		CO 5	காலந்தோறும் கோயில் கலையில் நிகழ்ந்த மாற்றங்களை விளக்குதல்	Upto K3
21UTLN31	போட்டித்தேர்வு தமிழ் – 1	CO 1	அடிப்படை தமிழ் இலக்கிய இலக்கணங்களை அறியச்செய்தல்	Upto K3
		CO 2	கேட்கப்படும் வினாக்களுக்கு ஏற்றவாறு விடையளித்தல்	Upto K3
		CO 3	பாடத்திட்டத்தின் அடிப்படையில் நேர்காணலை எதிர்கொள்ள வழிவகை செய்தல்	Upto K3
		CO 4	போட்டித்தேர்விற்கான உத்திமுறைகளை எடுத்துரைத்தல்	Upto K3
		CO 5	போட்டித்தேர்வை எதிர்கொள்ளும் திறன்களை மேம்படுத்துதல்	Upto K3



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21UTLC41	சிற்றிலக்கியம்	CO 1	தமிழ் சிற்றிலக்கிய மரபுகளைத் தெரிந்து கொள்ளல்	Upto K3
		CO 2	சிற்றிலக்கியங்கள் பெருவாரியாக தோற்றம் பெற்ற காலத்தின் சமூகப் பிண்ணனியைத் தெரிந்து கொள்ளல்.	Upto K3
		CO 3	தமிழ்ச் சிற்றிலக்கியங்களின் பாடுபொருள் புரிந்துகொள்ளல்	Upto K3
		CO 4	தமிழ்ச் சிற்றிலக்கியங்களின் எடுத்துரைப்பியல் குறித்துப் புரிந்துகொள்ளல்	Upto K3
		CO 5	தற்காலத்தில் இயற்றப்பட்ட சிற்றிலக்கியங்களைப் பழைய சிற்றிலக்கியங்களோடு பொருத்திப் பார்க்கும் திறன் பெறுதல்	Upto K3
21UTLC51	அற இலக்கியம்	CO 1	சங்கமருவிய காலத்தில் உருப்பெற்ற புதிய இலக்கிய வடிவம் மற்றும் இலக்கிய நயம் குறித்து அறிந்து கொள்ளல்	Upto K3
		CO 2	தமிழ் அற இலக்கியங்களில் முன்னெடுக்கப்பட்டுள்ள அறக்கருத்துக்களை தெரிந்து கொள்ளல்.	Upto K3
		CO 3	அற இலக்கியங்கள் வெளிப்படுத்தும் அறங்கூறும் முறைமையினை புரிந்து கொள்ளல்	Upto K3
		CO 4	தமிழ்ச் சமூகத்தில் காலந்தோறும் நிலவி வந்த அறம் சார்ந்த விழுமியங்களையும் புரிந்து கொள்ளல்	Upto K3
		CO 5	முற்கால பிற்கால அற இலக்கியங்களை ஒப்பிட்டுப் பார்க்கும் திறனைப் பெறல்	Upto K3



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21UTLC52	யாப்பருங்கலக்காரிகை – யாப்பிலக்கணம்	CO 1	யாப்பருங்கலக்காரிகை வழி தமிழ்ப்பாக்கள் பாவகைகள் மற்றும் பாவினங்களை அறிதல்	Upto K3
		CO 2	ஆசரியப்பா, கலிப்பா, வஞ்சிப்பாக்களின் வகை மற்றும் இனங்களின் வரையறைகளைக் கற்றுணர்தல்	Upto K3
		CO 3	இலக்கியத்தின் பாடுபொருளுக்கும் அதன் வடிவத்திற்குமான தொடர்பினை புரிந்து கொள்ளல்.	Upto K3
		CO 4	காலந்தோறும் மாற்றம் பெற்று வந்துள்ள யாப்பு வடிவங்களைப் புரிந்து கொள்ளல்	Upto K3
		CO 5	பா, பாவகை, பாவினங்களைப் படைக்கவும், பயின்று நயம் உணரவும், உணர்த்துவும் பயிற்சி பெறுதல்.	Upto K3
21UTLC53	பயண இலக்கியம்	CO 1	பயணம் பற்றி அறியச் செய்தல் – பயணம் பற்றிய பொருளை உணர்த்துதல்.	Upto K3
		CO 2	பயணம் மேற்கொண்டு எழுதிய அறிஞர்களின் பங்கை உணர்த்துதல்	Upto K3
		CO 3	இலக்கியத்தில் பயணம் பற்றிய பழந்தமிழ்ச் செய்திகள் அறியச்செய்தல்	Upto K3
		CO 4	பயண இலக்கியத்தின் இன்றைய நிலைகளை வெளிப்படுத்தி உணர்த்தச் செய்தல்	Upto K3
		CO 5	பயண இலக்கிய இன்றைய வளர்ச்சியை மாணவர்களுக்கு எடுத்துரைத்தல். மேலும் பயண நூல்களையும் அதன் ஆசிரியர் பற்றி அறியச்செய்தல்	Upto K3
21UTLC54	நாடக இலக்கியம்	CO 1	நாடகம் பற்றிய தோற்றம் அறியச் செய்து	Upto K3



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Contact No.: 87542 09994

87542 08885

sourashtracollege.com

soucollege@gmail.com

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			பொருளை உணர்த்துதல்	
		CO 2	நாடக வகைகள் குறித்து அறியச் செய்தல்	Upto K3
		CO 3	நாடக இலக்கண நூல்கள் அறிய வைத்தல் – நாடகம் பற்றிய குறிப்புகளை அறிய வைத்தல்	Upto K3
		CO 4	இலக்கியங்களில் நாடகக் குறிப்புகளை உணர்த்துதல் – சபாக்கள் நடிகர்கள் பற்றி உணர்த்துதல்	Upto K3
		CO 5	நாடகத்தின் மூலம் இன்றைய சூழல்கள் பற்றிய விழிப்புணர்வை ஏற்படுத்தி நடக்க வைத்தல்.	Upto K3
21UTLE51	திரைப்படத்தமிழ் - I (திரைப்படத்தின் தோற்றமும், வளர்ச்சியும்)	CO 1	உலகத்திரைப்படங்களின் தொடக்க கால தோற்றம் பற்றி அறியச்செய்தல். தொழில்நுட்ப வளர்ச்சியை எடுத்துரைத்தல்	Upto K3
		CO 2	இந்தியாவின் திரைப்படத்தின் தோற்றம், வளர்ச்சி பற்றி எடுத்துரைத்தல். வரலாற்றை எடுத்துக் கூறி விளக்குதல்.	Upto K3
		CO 3	தமிழகத்தில் தமிழ் மொழியில் திரைப்படங்கள் தோன்றிய விதம். திரைப்படத்துறை வித்திட்டவர்களின் வரலாறு தெரியவைத்தல்.	Upto K3
		CO 4	திரைப்படக்கலையின் வளர்ச்சி பற்றி காலந்தோறும் ஏற்பட்ட மாற்றம் பற்றி வளர்ச்சி எடுத்துரைத்தல்.	Upto K3
		CO 5	திரைப்படத்துறையில் ஆரம்ப கால தகுதிகள் குறித்த விழிப்புணர்வும் திரையின் மூலம்	Upto K3



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			மொழிநடை விழிப்புணர்வு இலக்கியத் தாக்கம் பற்றிய கருத்துக்களை மாணவர்களுக்கு எடுத்துரைத்தல். திரைப்பட படைப்புத்திறனை வெளிக்கொணர வழி வகை செய்தல்.	
21UTLE52	புத்தகப் பதிப்பியல்	CO 1	புத்தகங்களின் வகைகள், பதிப்புகளின் வகைகள் கலைச்சொல் அகராதி மொழி பெயர்ப்பு பற்றி உணர்த்துதல்	Upto K3
		CO 2	புத்தகத்தின் பெயர்க்காரணம், நூலகம் பற்றிய விளக்கம், பாடத்திருத்தங்கள் பற்றி விளக்குதல்.	Upto K3
		CO 3	பதிப்பாசிரியர்களின் கடமைகள், பொறுப்புகள் சுருக்கக்குறியீடுகள் சந்தி பிரித்தல், மொழி நடைகள் பற்றிய கருத்துக்களை உணர்த்துதல்.	Upto K3
		CO 4	அச்சகம், அச்ச வரலாறு, மின்நூல்கள் வகைகள் எழுத்துக்களின் வடிவம் அச்சிடும் முறைகள் முதலிய வகைகள் பற்றிய வளர்ச்சியை எடுத்துணர்த்தல்.	Upto K3
		CO 5	புத்தகத்தின் உறுப்புகள் புத்தக வடிவம் திருத்துதல் புத்தக வகைகள் தயாரிப்பு நிர்வாகம் புத்தக எண் முதலிய பல்வேறு நிலைகள் பற்றிய கருத்துக்களை எடுத்துணர்த்தி மாணவர்களை வழிப்படுத்துதல்.	Upto K3
21UTLE53	பெண்ணியம்	CO 1	பெண்ணியம் பற்றிய விளக்கம் – பெண்ணியத்தின் வகைகள் –	Upto K3



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			பெண்ணியத்தின் தோற்றம் வளர்ச்சி பற்றி அறியவைத்தல்	
		CO 2	பல்வேறு காலங்களில் பெண்களின் நிலை – பெண்ணிய வகைகள் பற்றிய சிந்தனைகளை எடுத்துணர்த்தல்	Upto K3
		CO 3	குடும்ப அமைப்புகள் – பெண்ணின் வரலாறு, தீவிரவாத நிலைகளில் பெண்ணிய சிந்தனை – பெண்ணிய கோட்பாட்டாளர்கள் – பெண்ணியம் பற்றிய நூல்கள் பற்றி விளக்கியுரைத்தல்.	Upto K3
		CO 4	பெண்கல்வி – பெண்ணிய இயக்கத் திறனாய்வும் உளவியல் சிந்தனையும் மார்க்கசிய பெண்ணியம் பற்றிய கருத்துக்களை விளக்கியுரைத்தல்	Upto K3
		CO 5	இந்தியாவில் பெண்ணியத்தின் வரலாறை எடுத்துணர்த்தி பெண்களின் கட்டமைப்பு இந்திய தேசியத்தில் பெண்களின் குழு அவர்களின் மாநாடுகள் பற்றிய நிலைகளை உணரச்செய்தல்	Upto K3
21UTLC61	சங்க இலக்கியம்	CO 1	சங்க இலக்கிய வகைமையும், வடிவத்தையும் தெரிந்து கொள்ளுதல்.	Upto K3
		CO 2	சங்க இலக்கியத்தின் செவ்வியல் தன்மையை அறிந்து கொள்ளுதல்	Upto K3
		CO 3	சங்க கால தமிழ் சமூகத்தின் பண்பாட்டை புரிந்துகொள்ளல்.	Upto K3
		CO 4	சங்க இலக்கியங்களில் எடுத்துரைப்பு	Upto K3



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			முறைகள், இலக்கிய உத்திகள் முதலியவற்றை புரிந்து கொள்ளல்	
		CO 5	பிற்கால இலக்கியங்களின் மீதான சங்க பனுவல்களின் தாக்கத்தினை இனங்காணும் திறனைப் பெறுதல்	Upto K3
21UTLC62	ஊடகத்தமிழ்	CO 1	தமிழ் ஊடகங்களின் வளர்ச்சி வரலாற்றை தெரிந்து கொள்ளல்	Upto K3
		CO 2	ஊடகங்களின் பணி மற்றும் கடமை குறித்த தெளிவினைப் பெறுதல்	Upto K3
		CO 3	கற்கால தமிழ் ஊடகங்களின் சமூக, இலக்கிய அரசியல் பார்வையை புரிந்து கொள்ளல்.	Upto K3
		CO 4	ஊடகத்துறையில் வேலை வாய்ப்பினை பெறும் தகுதியினை அடைதல்	Upto K3
		CO 5	இலக்கியப் படைப்பாக்கம் மற்றும் இலக்கிய விமர்சனத்திற்கான வெளியாக தற்கால ஊடகங்களை பயன்படுத்திக் கொள்ளும் திறன் பெறுதல்.	Upto K3
21UTLC63	இலக்கிய திறனாய்வியல்	CO 1	திறனாய்வு என்னும் அறிவுத்துறையின் அடிப்படைகளை அறிந்து கொள்ளல்.	Upto K3
		CO 2	தமிழ் இலக்கியங்களிலும் இலக்கணப் பனுவல்களிலும் மேற்கொள்ளப்பட்ட திறனாய்வுகள் குறித்த புரிதல்	Upto K3
		CO 3	பல்வேறுபட்ட திறனாய்வு முறைகள் குறித்து தெரிந்து கொள்ளல்	Upto K3
		CO 4	திறனாய்வு அணுகுமுறைகள் பற்றிய புரிதலைப் பெறுதல்	Upto K3



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21UTLC64	தண்டியலங்காரம் – அணி இலக்கணம்	CO 1	தமிழ் அணி இலக்கண மரபு குறித்து அறிந்து கொள்ளல்	Upto K3
		CO 2	தண்டியலங்காரம் கட்டமைக்கும் அணி வகைகளை அறிந்து கொள்ளல்	Upto K3
		CO 3	மடக்கு சித்திரக்கவி வழக்களின் வகைகளைத் தெரிந்து கொள்ளல்	Upto K3
		CO 4	இலக்கிய எடுத்துரைப்புக்கும் அணிகளுக்குமான தொடர்பினை புரிந்து கொள்ளல்	Upto K3
		CO 5	சமூக கால பனுவல்களில் பயின்று வரும் அணி வகைகளை இனம் காணும் திறனைப் பெறுதல்.	Upto K3
21UTLE61	திரைப்படத்தமிழ் – II (திரைப்படத்தின் தோற்றமும், வளர்ச்சியும்)	CO 1	திரைப்படங்களில் இலக்கியங்கள் அமைந்துள்ளதை அறியச் செய்தல்.	Upto K3
		CO 2	திரைப்படத்தில் காணப்படும் இலக்கிய உத்திகளை பாடல் வசனம் திரைக்கதைகள் காலந்தோறும் ஏற்பட்ட வளர்ச்சி பற்றி எடுத்துரைத்தல்.	Upto K3
		CO 3	திரைப்படங்களில் காணப்படும் இலக்கிய தாக்கம் அதன் மூலம் பயனை எடுத்துரைத்தல்	Upto K3
		CO 4	திரைப்படத்தில் காலந்தோறும் மொழி நடையில் ஏற்பட்ட வளர்ச்சி நிலைகளை	Upto K3



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sourashtracollege.com

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			உணர்ச் செய்தல்	
		CO 5	தற்காலத் திரைப்படத்தில் காணப்படும் அந்நிய மொழிகளின் தாக்கம் அறியச் செய்து தனித்தமிழ் நடைகளை பயிலச் செய்தலும் மொழிகளை பயன்படுத்த வைத்தலும் ஆகும்.	Upto K3
21UTLE62	தகவல் தொழில்நுட்பம்	CO 1	தகவல் தொழில்நுட்பத்தின் வரலாற்றை அறியச் செய்தல்	Upto K3
		CO 2	கணினி மொழிகள் மற்றும் அதன் செயல்பாடுகள் படி நிலைகள் உணர்ந்து கற்கச் செய்தல்	Upto K3
		CO 3	தரவு அனுப்பும் முறைகள் முதல் தரவு தர முறைகள் முதலியவற்றை உணர்ந்து பயன்பாட்டு நிலைகளை பயன்படுத்தச் செய்தல்	Upto K3
		CO 4	முறைமைக் கொள்கை, கணினி வைரஸ் ஆகியவற்றை கொண்டு மாற்று மென்பொருட்கள் பயன்பாட்டினை பயன்படுத்த செய்தல்	Upto K3
		CO 5	கணினி பணியகம் மின் வர்த்தகம் ஆகியவற்றை கொண்டு தொழில்வளர்ச்சி காணச் செய்து பணி வாய்ப்பினை வளரச் செய்யும் தகவல் தொழில்நுட்பத்தின் வளர்ச்சியை உணர வைத்தல். மேலும் பயன்பாட்டை எடுத்துரைத்தல் ஆகும்.	Upto K3
21UTLE63	உரைநடை வரலாறு	CO 1	உரைநடையின் இலக்கிய வரலாற்றை அறியச் செய்தல்	Upto K3



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		CO 2	உரைநடையின் வகைகள் அறியச் செய்து அதன் வகைகளை கற்கச் செய்தல்.	Upto K3
		CO 3	உரைநடைக்கு பணியாற்றிய உரையாசிரியர்கள் இனங்கண்டு நடை வகைகளை அறியச் செய்து பயிலச் செய்தல்	Upto K3
		CO 4	உரைநடையில் ஏற்பட்ட மாற்றங்களை இனங்கண்டு உரைநடைகளுடன் ஒப்பிட்டு எழுதச் செய்தல்.	Upto K3
		CO 5	பழங்கால நடைகளில் இருந்து தற்கால உரைநடைகளின் வளர்ச்சியை இனங்கண்டு புத்திலக்கிய வகைகளில் பயன்பாட்டினை உணரச்செய்தல்.	Upto K3
21UTLEV1	செய்தித்தாள் தயாரித்தல்	CO 1	தகவல் பரிமாற்றத்தின் வளர்ச்சி வரலாறு அறிய வைத்தல்	Upto K3
		CO 2	இதழியல் பணி மற்றும் கடமை குறித்த புரிதலை பெறுதல்	Upto K3
		CO 3	தற்கால இதழியில் சமூகம், செய்தியாளரின் கடமை சிந்தனைகளை உணர்த்துதல்.	Upto K3
		CO 4	ஊடகத்துறையில் பணி வாய்ப்பினை பெறும் தகுதியினை அடையச் செய்தல்	Upto K3
		CO 5	தனிமனித வளர்ச்சியை அடைய செய்தி தயாரிக்கும் திறன் வளர்ச்சி அறியச் செய்து முன்னேற்றம் காண வைத்தல்.	Upto K3
PART – I – TAMIL				
21UACT11	கவிதையும் சிறுகதையும்	CO 1	சுதந்திரச்சிந்தனை, பெண்ணின்தீரம், வாழ்க்கை	



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			நிலையாமை, வாழும்வகை, தமிழ்ச்சிறப்பு ஆகியவற்றை தெரிந்து கொள்ளல்	K1, k2
		CO 2	உழவர் சிறப்பு, வாழ்க்கையின் தன்மைகள், தாலாட்டு ஆகியவற்றை தெரிந்துகொள்ளல்	K1, k2
		CO 3	வாழ்க்கையின் அனுபவங்கள், வாழ்க்கை சிக்கல்களைத் தெரிந்து கொள்ளல், மீண்டுவருதல், இலக்குகளை அடைதல்	K1, k2
		CO 4	தமிழ் எழுத்திலக்கணத்தைப் புரிந்து கொண்டு பிழையின்றி எழுதுதல்.	K3
		CO 5	மரபுக்கவிதை, புதுக்கவிதை இலக்கியவரலாறு அறிதல், மாணவர்களின் படைப்பாற்றல் வெளிப்பாடு	K3



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			(சிறுகதை)	
21UACT21	செய்யுளும் புதினமும்	CO 1	பக்தி இலக்கியமரபு, பக்தித்திறனை அறிதல்	K1 K2
		CO 2	சிற்றிலக்கியம் சிறப்புகளை அறிதல்	K1 K2
		CO 3	புதினம் வழியாக மனிதமேம்பாடு வளர்த்தல்	K1 K2
		CO 4	சொல்லிக்கண மரபறிந்து தவறின்றி எழுதும் திறன் பெறல்	K3
		CO 5	பக்தி, சிற்றிலக்கியம், புதின வரலாற்றினைத் தெரிந்து கொள்ளல், கட்டுரைவரைதல்	K3
21UACT31	காப்பியமும் நாடகமும்	CO 1	காப்பிய மரபு, காப்பியக் கொள்கைகள், காப்பிய இலக்கியங்கள் வெளிப்படுத்தும் கதை கூறும் முறைமையினைப் புரிந்து கொள்ளுதல்	Upto K3
		CO 2	நாடகம் படைக்கும் முறை, பாத்திர வார்ப்புகளை தெரிந்து கொள்ளல், நாடகம்	Upto K3



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			வெளிப்படுத்தும் கருத்துகளை அறிதல்	
		CO 3	மாணவர்களின் ஆளுமைத்திறன் மேம்படுத்தல், சமுதாய நிகழ்வுகள் பற்றி செய்தி அறிதல்	Upto K3
		CO 4	தமிழ்யாப்பிலக்கண மரபைத் புரிந்து கொண்டு செய்யுள்களின் யாப்பமைதியை இனம் காணும் திறன் பெறல்	Upto K3
		CO 5	காப்பிய நாடக உரைநடை வரலாற்றினை அறிதல், மாணவர்கள் படைப்பாற்றல் மூலம் நாடகம் எழுதும் திறனை வெளிப்படுத்துதல்	Upto K3
21USTN31	சிறப்புத்தமிழ் – செய்யுளும் உரைநடையும் – I	CO 1	மரபு, புதுக்கவிதை, பக்தி இலக்கியங்கள் அறிதல்	Upto K3
		CO 2	பிற சமய இலக்கியங்கள் அறிதல்	Upto K3
		CO 3	உரைநடை இலக்கியங்கள் அறிதல்	Upto K3
		CO 4	பிழையின்றி எழுதும் திறன் கடிதம் எழுதும் திறன் பெறல்	Upto K3
		CO 5	மரபு, புதுக்கவிதை, பக்தி இலக்கிய	Upto K3



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			வரலாறு அறிதல்	
21UATN31	அடிப்படைத்தமிழ் – எழுத்து	CO 1	உயிர், மெய் குறில் நெடில் அறிதல்	Upto K3
		CO 2	உயிர் மெய் வல்லினம், மெல்லினம், இடையினம் வகைகள் அறிதல்	Upto K3
		CO 3	ஓர் எழுத்து, ஈரெழுத்துச் சொற்கள் அறிதல்	Upto K3
		CO 4	திணை, பால் எண் அறிதல்	Upto K3
		CO 5	தமிழ் மொழியிலிருந்து ஆங்கில மொழிக்கு மொழி பெயர்ப்பு செய்யும் பயிற்சி பெறுதல்.	Upto K3
21UACT41	சங்க இலக்கியமும் அற இலக்கியமும்	CO 1	சங்க இலக்கிய இலக்கியங்களின் வாயிலாக, மக்கள் வாழ்க்கை, பண்புகள், வழிபாடுகள் முதலியன அறிதல்	Upto K3
		CO 2	அறஇலக்கியம் உணர்த்தும் மனித மாண்புகள், வாழ்க்கை முறைகளை அறிதல்	Upto K3
		CO 3	சங்க இலக்கியக் கட்டுரைகளின் மூலம் சங்க கால வாழ்க்கை நெறிமுறைகள், இயற்கையை நேசிக்கும் வகை ஆகியன அறிதல்	Upto K3
		CO 4	பொருள் இலக்கண மரபின்	Upto K3



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			அடிப்படையில் இலக்கியப் பணுவல்களை வாசிக்கும் திறன் பெறல்	
		CO 5	சங்க இலக்கியங்களின் வரலாறு அறிதல், மாணவர்களின் படைப்பாற்றல் வெளிப்பாடாக கவிதை படைத்தல்	Upto K3
21USTN41	சிறப்புத்தமிழ் – செய்யுளும் உரைநடையும் – II	CO 1	சங்க, காப்பிய, இலக்கியங்கள் அறிதல்	Upto K3
		CO 2	நீதி இலக்கியங்கள் அறிதல்	Upto K3
		CO 3	உரைநடை இலக்கியங்கள் அறிதல்	Upto K3
		CO 4	மரபுப் பெயர், கலைச் சொல் அறிதல்	Upto K3
		CO 5	சங்க, காப்பிய, நீதி இலக்கிய வரலாறு அறிதல்	Upto K3
21UATN41	அடிப்படைத்தமிழ் –சொல்	CO 1	உயிர், மெய், குறில் நெடில் அறிதல்	Upto K3
		CO 2	உயிர் மெய், வல்லினம், மெல்லினம், இடையினம் வகைகள் அறிதல்	Upto K3
		CO 3	ஓர் எழுத்து, ஈரெழுத்துச் சொற்கள் அறிதல்	Upto K3
		CO 4	திணை, பால் எண் அறிதல்	Upto K3



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		CO 5	தமிழ் மொழியிலிருந்து ஆங்கில மொழிக்கும் மாணவர் கற்ற பிறமொழிக்கும் மொழி யெர்ப்பு செய்யும் பயிற்சி பெறுதல்.	Upto K3
B.Sc. COMPUTER SCIENCE (CLOUD COMPUTING AND CYBER SECURITY)				
23UCDC11	PROGRAMMING IN C	CO1	identify the basic concepts needed for program development	Upto K3
		CO2	apply the basic concepts and develop program to find solutions for simple problems	Upto K3
		CO3	design programs to solve complex problems by using suitable control statements	Upto K3
		CO4	analyze the problem and design efficient program using functions	Upto K3
		CO5	use array and structure to handle volume of data	Upto K3
23UCDCP1	LAB: PROGRAMMING IN C	CO1	Understand basic Structure of the C-PROGRAMMING, declaration and usage of variables	Upto K3
		CO2	Manage I/O operations in your C program	Upto K3
		CO3	Control the sequence of the program and	Upto K3



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87542 08885

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Course Code	Name of the Course	CO	CO Statement	Knowledge level (According to Blooms taxonomy)
			give logical outputs	
		CO4	Apply code reusability with functions and pointers	Upto K3
		CO5	Understand the basics of file handling mechanisms	Upto K3
23UCDA11	MATHEMATICAL FOUNDATIONS - I	CO1	discuss the idea of Proposition, Predicates and Quantifiers	Upto K3
		CO2	identify the basic concepts of Relations	Upto K3
		CO3	explain the basic concepts of Pigeonhole principle, Permutation, Combination and applications of Recurrence relations.	Upto K3
		CO4	acquire knowledge about the basic concepts of Graph Theory and its applications	Upto K3
		CO5	find Eigen values and Eigen vectors using matrix concept	Upto K3
23UCDS11	LAB: PC ASSEMBLING, TROUBLE SHOOTING AND SYSTEM MANAGEMENT	CO1	A hands-on approach will be used to provide the student with a basic skill level to work on a computer with the lid off	Upto K3
		CO2	Student will be able to understand the hardware specifications that are required to run operating system and various shipboard	Upto K3



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			application programs.	
		CO3	Perform routine maintenance, upgrades	Upto K3
		CO4	Manage data backup & restore operations on server and update anti-virus software and set schedules	Upto K3
		CO5	Learn basic networking hardware and tools	Upto K3
23UCDC21	JAVA PROGRAMMING	CO 1	understand the basic concepts of Object oriented programming and java evolution and features	Upto K3
		CO 2	apply the basic concepts of OOP, java features and its applications.	Upto K3
		CO 3	write object oriented programs using Inheritance, Strings and Vectors, Interfaces.	Upto K3
		CO 4	design object oriented programs, multithreading, exception handling,	Upto K3
		CO 5	understand Packages and Data files in JAVA.	Upto K3
23UCDCP2	LAB: JAVA PROGRAMMING	CO 1	write programs using Object oriented programming paradigm – Encapsulation (Classes and objects), Polymorphism and Inheritance.	Upto K3
		CO 2	apply various java features like	Upto K3



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Course Code	Name of the Course	CO	CO Statement	Knowledge level (According to Blooms taxonomy)
			multithreading, exceptional handling, interface, package, overloading, overriding	
		CO 3	utilize different types of inheritance to suit different applications	Upto K3
		CO 4	design to write programs using Object oriented programming paradigm that enables runtime polymorphism using interface and applet programming	Upto K3
		CO 5	apply Object oriented programming paradigm for flat file organization. – Sequential and Random access	Upto K3
23UCDA21	MATHEMATICAL FOUNDATIONS – II	CO1	define collection of data and state the representation of data in Bar – charts, Pie – diagrams, Histograms, Frequency polygon and Ogives.	Upto K3
		CO2	explain the concept of moments, skewness and kurtosis solve problems	Upto K3
		CO3	define correlation, regression and solve problems in correlation, rank correlation. Also find the regression equations.	Upto K3
		CO4	explain addition, multiplication theorem, conditional probability, independent events,	Upto K3



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Course Code	Name of the Course	CO	CO Statement	Knowledge level (According to Blooms taxonomy)
			expectation and solve problems	
		CO5	solve problems in t- test, F- test and chi-square test	Upto K3
23UCDS21	LAB: LINUX AND SHELL PROGRAMMING	CO1	write simple programs using basic commands	Upto K3
		CO2	write simple programs using mathematical logic	Upto K3
		CO3	write a simple programs using strings	Upto K3
		CO4	write a simple programs using while loop	Upto K3
		CO5	write a simple programs using files	Upto K3
PART – I – HINDI				
21UACH11	HINDI – I	CO 1	read, write and speak with correct pronunciation and accent.	K1,K2
		CO 2	familiarize with vocabulary in Hindi	K1,K2
		CO 3	analyze the different writing styles of Hindi authors	K1,K4
		CO 4	understand the gender, number and antonyms in Hindi	K2,K3,K6
		CO 5	imbibe moral value in them	K2,K6
21UACH21	HINDI – II	CO 1	improve reading skill and act in the stage performance of the play	K1,K2,K4



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Course Code	Name of the Course	CO	CO Statement	Knowledge level (According to Blooms taxonomy)
		CO 2	develop the language, confidence level and some moral values.	K2,K3
		CO 3	outline the letters for communication.	K2,K3,K6
		CO 4	get the knowledge of modern Hindi poetry	K2,K3,K4
		CO 5	learn creative writing by means of précis writing	K2,K3,K6
21UACH31	HINDI – III	CO 1	acquire in–depth knowledge of history of Hindi literature	Upto K3
		CO 2	become familiar with the poet and his poetry and the style used in ancient poetry	Upto K3
		CO 3	get acquainted with the History of Hindi Literature.	Upto K3
		CO 4	understand Hindi grammar and its correct usage, read fast and comprehend the vocabulary of Hindi language	Upto K3
		CO 5	write Hindi correctly by means of Hints development	Upto K3
21UACH41	HINDI – IV	CO 1	become familiar with the various elements/aspects of novel and improve their reading and comprehension skill and learn vocabulary	Upto K3
		CO 2	acquire in–depth knowledge of history of Hindi literature	Upto K3
		CO 3	define the technical terms used in the forms	Upto K3



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Course Code	Name of the Course	CO	CO Statement	Knowledge level (According to Blooms taxonomy)
			of bank, insurance and post office etc.	
		CO 4	understand Hindi grammar and its usage	Upto K3
		CO 5	know about the different tourist places of India and outside in Hindi	Upto K3
21UHN31	SPOKEN HINDI – I	CO 1	speak with correct pronunciation and accent.	Upto K3
		CO 2	become familiar with vocabulary of day to day life in Hindi	Upto K3
		CO 3	comprehend Hindi	Upto K3
		CO 4	introduce themselves in Hindi	Upto K3
		CO 5	converse in Hindi in hotel, station, market, hospital	Upto K3
21UHN41	SPOKEN HINDI – II	CO 1	become familiar with the vocabulary related to nature and fruits and vegetables in Hindi	Upto K3
		CO 2	communicate fluently in Hindi with correct pronunciation and accent	Upto K3
		CO 3	comprehend Hindi	Upto K3
		CO 4	learn correct usage of tense	Upto K3
		CO 5	converse in Hindi in railway station, in the interview, in the bus stand	Upto K3
PART – I – SANSKRIT				
21UACS11	SANSKRIT – I	CO 1	identify Devanāgarī script, Describe modern literature and Illustrate	K1, K2



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Course Code	Name of the Course	CO	CO Statement	Knowledge level (According to Blooms taxonomy)
		CO 2	discriminate spirituality in Literature	K2
		CO 3	classify and discuss traditional names of Divine beings to animals in the world	K2
		CO 4	describe and defend history of early Sanskrit literature	K2
		CO 5	practice Creativity and demonstrate various culture of world	K2, K3
21UACS21	SANSKRIT -II	CO 1	understand Sanskrit poetry literature	K1, K2
		CO 2	compare literature with modern life	K2
		CO 3	classify and discuss the importance of Sanskrit literature	K2
		CO 4	describe and defend history of early Sanskrit literature	K2
		CO 5	practice Creativity and demonstrate different aspects of life as portrayed in Sanskrit literature	K2, K3
21UACS31	SANSKRIT – III	CO1	understand Sanskrit drama literature	Upto K3
		CO2	compare drama with modern life	Upto K3
		CO3	classify and discuss the importance of Sanskrit	Upto K3



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Course Code	Name of the Course	CO	CO Statement	Knowledge level (According to Blooms taxonomy)
			drama literature	
		CO4	describe and defend history of early Sanskrit literature	Upto K3
		CO5	practice Creativity and Demonstrate different aspects of spoken Sanskrit	Upto K3
21UACS41	SANSKRIT – IV	CO1	understand Sanskrit drama literature	Upto K3
		CO2	compare drama with modern life	Upto K3
		CO3	classify and discuss the importance of Sanskrit drama literature	Upto K3
		CO4	describe and defend history of early Sanskrit literature	Upto K3
		CO5	practice Creativity and Demonstrate different aspects of spoken Sanskrit	Upto K3
PART – II – ENGLISH				
21UACE11	ENGLISH FOR ENRICHMENT - I	CO 1	learn and use English vocabulary correctly from the essays and apply in their writing	K1
		CO 2	appraise the story line of different writers through the short stories	K2
		CO 3	identify different kinds of sentences and construct grammatically correct sentences	K3
		CO 4	develop the art of public speaking.	K6
		CO 5	learn the method of drafting different types	K1



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Course Code	Name of the Course	CO	CO Statement	Knowledge level (According to Blooms taxonomy)
			of letters and the aspects of cohesion and coherence in descriptive writing.	
21UACE21	ENGLISH FOR ENRICHMENT - II	CO 1	understand different perspectives of the poets	K2
		CO 2	improve their LSRW skills	K6
		CO 3	understand the applied and functional grammar	K2
		CO 4	enrich their vocabulary in English	K6
		CO 5	improve their writing skills	K3
21UACE31	ENGLISH FOR ENRICHMENT – III	CO 1	analyse the themes of prescribed texts of literature	Upto K3
		CO 2	apply and incorporate basic grammar, mechanics of writing in English	Upto K3
		CO 3	evaluate life–skills and develop them	Upto K3
		CO 4	construct simple sentences and paragraphs	Upto K3
		CO 5	develop the ability to read and write words through an analysis of the structure of English Language	Upto K3
21UACE41	ENGLISH FOR ENRICHMENT – IV	CO 1	understand the archaic Vocabulary and forms in English through the prescribed text.	Upto K3



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Course Code	Name of the Course	CO	CO Statement	Knowledge level (According to Blooms taxonomy)
		CO 2	analyse and Evaluate the great writings through the prescribed texts.	Upto K3
		CO 3	help the students to develop their knowledge of various grammatical structure and the ability to speak and write in grammatically correct English.	Upto K3
		CO 4	develop the ability to face interviews and present ideas in a group.	Upto K3
		CO 5	develop the writing skills through interesting activities.	Upto K3
PART – V (EXTENSION ACTIVITIES)				
21NSSEA4	NATIONAL SERVICE SCHEME	CO 1	know about the history and objectives of NSS	Upto K3
		CO 2	understand the need of National integration and social harmony	Upto K3
		CO 3	gain knowledge on legal awareness and health awareness, need for organizing N.S.S. Camps and EEAT	Upto K3
21YRCEA4	YOUTH RED CROSS	CO 1	know the history, organization structure, principles and functions of Red Cross Society	Upto K3
		CO 2	understand the Organisation setup of Indian Red Cross and its activities.	Upto K3



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Course Code	Name of the Course	CO	CO Statement	Knowledge level (According to Blooms taxonomy)
		CO 3	describe the types of conflict, National Disasters, role of Red Cross Society in relief activities and the important rules of first aid	Upto K3
21RRCEA4	RED RIBBON CLUB	CO 1	know the importance, functions and responsibilities of RRC	Upto K3
		CO 2	understand HIV and its effects	Upto K3
		CO 3	gain knowledge about the importance of Blood Donation	Upto K3
21CCCEA4	CITIZEN CONSUMER CLUB	CO 1	get an awareness about consumer rights and responsibilities.	Upto K3
		CO 2	develop concern for environment around citizens and consumers and sustainable consumption habits.	Upto K3
		CO 3	get educated about remedial measures available to affected consumers.	Upto K3
21WUSEA4	WORLD UNIVERSITY SERVICE	CO 1	know the history and functions of WUS	Upto K3
		CO 2	gain knowledge on the types of Universities	Upto K3
		CO 3	receive information about MHRD, NGO and Competitive Examinations	Upto K3
21LIBEA4	LIBRARY AND INFORMATION SCIENCE	CO 1	know the elements of Library Management, components of Library and the various sections of the Library	Upto K3



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Course Code	Name of the Course	CO	CO Statement	Knowledge level (According to Blooms taxonomy)
		CO 2	identify a particular type of ready reference source to race the required information and evaluate the value of any such reference tool before acquiring it for your library	Upto K3
		CO 3	understand the Digital Library Service, Internet, Online resources, Library Automations and Remote Access	Upto K3
21NCCEA4	NCC – ARMY	CO 1	know the Aims of NCC, NCC Song and History of NCC	Upto K3
		CO 2	understand the Duties of good citizen, Leadership Training and First Aid	Upto K3
		CO 3	know the various types of North ,Compass Service Protractor, Fire Control Orders and Social Service	Upto K3
21PEDEA4	PHYSICAL EDUCATION	CO 1	demonstrate the skills necessary to participate, perform, and progress in a variety of sport and/or exercise classes	Upto K3
		CO 2	describe and apply the components of fitness – strength, endurance, flexibility	Upto K3
		CO 3	identify and explain the rules, concepts used in the Physical Education	Upto K3



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POSTGRADUATE (PG) PROGRAMME (AIDED)

Course Code	Name of the Course		CO Statement	Knowledge level (According to Blooms taxonomy)
M.A. ENGLISH				
21PEHC11	CHAUCER AND THE ELIZABETHAN AGE	CO 1	understand British poetry from the earliest era to the modern age	Upto K5
		CO 2	update their Knowledge on social, political and intellectual contexts of the Ages	Upto K5
		CO 3	analyse the influences of a variety of cultures on the development of British Literature	Upto K5
		CO 4	discuss the aesthetic, cultural and historical aspects of British Drama	Upto K5
		CO 5	value the artistic and innovative use of language employed by the representative dramatists	Upto K5
21PEHC12	SHAKESPEARE	CO 1	interpret the poems of major Indian Writers in English	Upto K5
		CO 2	perceive the values and human concern inherent in the Indian cultural context.	Upto K5



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		CO 3	infer the innovative and artistic use of language employed by the Indian writers in their work.	Upto K5
		CO 4	analyse and evaluate how Indian culture is reflected in Indian Literature	Upto K5
		CO 5	appraise the Indian classical Literature and realize its value in practical aspects of life.	Upto K5
21PEHC14	LANGUAGE AND LINGUISTICS	CO 1	acquaint the evolution of ever changing language	Upto K5
		CO 2	inculcate the theoretical and practical manifestations of linguistics	Upto K5
		CO 3	synthesis and evaluate the literary texts	Upto K5
		CO 4	acquire an informed approach on how language interfaces with literature	K6
		CO 5	pursue research in various branches of linguistics	K6
21PEHC15	AMERICAN LITERATURE – I	CO 1	explain the socio-cultural background and the themes and techniques of American writings	K1, K2
		CO 2	estimate speeches and concepts of living which changed the American life	K2
		CO 3	interpret and evaluate American literature in the context of World literature in English and relate them in the developments in critical theory	K3, K5



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		CO 4	discuss elaborately the culture and history of America	K2
		CO 5	analyse the diversity of individuals in the works of American literature	K4
21PEHE11	TECHNICAL WRITING	CO 1	have an extensive knowledge of the technical use of language	Upto K5
		CO 2	provide insights into the nature of language	Upto K5
		CO 3	get an exposure on the nuances of language	Upto K5
		CO 4	make use of the language flawlessly	Upto K5
		CO 5	learn the art of writing creative and technical Writing	Upto K5
21PEHE11	ENGLISH FOR CAREER DEVELOPMENT	CO 1	acquire the necessary language skills required in the competitive job market	Upto K5
		CO 2	acquire the cognitive, logical, analytical and verbal skills necessary to succeed in competitive examinations	Upto K5
		CO 3	become familiar with the pattern of questions usually asked in the competitive examinations	Upto K5
		CO 4	provide sufficient practice in vocabulary and grammar from the perspective of career oriented tests	Upto K5



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		CO 5	help students to prepare for and appear in competitive examinations	Upto K5
21PEHE11	MASS COMMUNICATION AND JOURNALISM	CO 1	understand a brief history of Journalism and how Journalism developed through the years	K2
		CO 2	acquaint with the working of the powerful media	K1,K3
		CO 3	get oriented to gain more practical knowledge in print media scenario	K1
		CO 4	acquire knowledge to get jobs in print media	K4
		CO 5	analyze the impact of the media and public opinion on socio political issues in and around the world	K1
21PEHC21	THE NEO CLASSICAL AGE	CO 1	acquire a knowledge of the historical and cultural contexts of British Prose pieces and Fiction	Upto K5
		CO 2	identify and describe distinct literary characteristics of British Prose and Fiction	Upto K5
		CO 3	understand the importance and greatness of Prose writers and Novelists and their relationships to the significant literary traditions of their time	Upto K5
		CO 4	relate how language shapes human understanding	Upto K5



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		CO 5	evaluate the theme and the nuances of narrative techniques employed in Prose pieces and fiction	Upto K5
		CO 6	imbibe human values and understand their importance in today's world	Upto K5
21PEHC22	AMERICAN LITERATURE – II	CO 1	explain the socio-cultural background and the themes and techniques of American writings	K1, K2
		CO 2	estimate speeches and concepts of living which changed the American life	K2
		CO 3	interpret and evaluate American literature in the context of World literature in English and relate them in the developments in critical theory	K3, K5
		CO 4	discuss elaborately the culture and history of America	K2
		CO 5	analyse the diversity of individuals in the works of American literature	K4
21PEHC23	NEW LITERATURES IN ENGLISH	CO 1	understand the historical and cultural contexts of Prose pieces and Fiction	K2
		CO 2	analyse distinct literary characteristics of the text	K4



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		CO 3	infer the importance and greatness of Prose writers and Novelists and their relationships to the significant literary traditions	K4
		CO 4	analyse the literary techniques of dramatists	K4
		CO 5	evaluate the theme and the nuances of narrative techniques employed in Prose , poetry drama and fiction	K5
21PEHC24	ELT AND ICT	CO 1	understand a brief history of early development in language teaching	Upto K5
		CO 2	learn current approaches and method	Upto K5
		CO 3	to use ICT enabled tools and applications	Upto K5
		CO 4	to learn the futuristic view of educational technologies	Upto K5
		CO 5	to develop e-content and projects	Upto K5
21PEHC25	STUDY OF GENRES: AUTOBIOGRAPHY AND BIOGRAPHY	CO 1	understand the historical and cultural contexts of writers	K2
		CO 2	analyse distinct literary characteristics of the text	K4
		CO 3	infer the importance and greatness of biographers and autobiographers and their relationships to the significant literary traditions	K4



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		CO 4	analyse the literary techniques of writers	K4
		CO 5	evaluate the theme and the nuances of narrative techniques employed in the writings	K5
21PEHE21	WORLD SHORT STORIES	CO 1	infer the concept of short-stories and its effect in the society.	Upto K5
		CO 2	rejuvenate and retain the text reading habit forever; and detach from electrical gadgets for secondary sources.	Upto K5
		CO 3	simplify the universal ideologies and impart them to national and regional level.	Upto K5
		CO 4	become an eloquent raconteur and cultivate empathetic attitude towards society.	Upto K5
		CO 5	interpret any information based on prior reading of stories.	Upto K5
21PEHE21	LITERATURE AND SOCIETY	CO 1	infer the concept of Literature and its effect in the society.	Upto K5
		CO 2	get an extended knowledge about culture, Marxism and Literature.	Upto K5
		CO 3	simplify their understanding on culture and anarchy.	Upto K5
		CO 4	become an eloquent raconteur and cultivate empathetic attitude towards society.	Upto K5
		CO 5	interpret any information based on prior reading of Literature.	Upto K5



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21PEHC31	MODERN BRITISH LITERATURE	CO 1	analyse major movements and writers of Modern British literature.	Upto K5
		CO 2	acquire literary sensibility of Modern British literary texts.	Upto K5
		CO 3	perceive the values and the human concern inherent in the modern British writings.	Upto K5
		CO 4	explore different genres in the modern British writings.	Upto K5
		CO 5	analyse and appreciate the literary techniques and nuances of the modern British writers.	Upto K5
21PEHC32	RESEARCH METHODOLOGY	CO 1	understand research terminology	Upto K5
		CO 2	be aware of the mechanics of thesis writing	Upto K5
		CO 3	identify various sources for Documentation and its process	Upto K5
		CO 4	organise a thesis	Upto K5
		CO 5	Get acquainted with research ethics	Upto K5
21PEHC33	ENGLISH LITERATURE FOR COMPETITIVE EXAMINATIONS – I	CO 1	possess the comprehensive view of Classical Literature, Anglo-Saxon Literature and Pre- Chaucerian period	Upto K5
		CO 2	understand the difference between Traditional Literature and Modern Literature from the British and American	Upto K5



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			works	
		CO 3	be aware of the planning and revision of curriculum with different literary genres	Upto K5
		CO 4	get a thorough knowledge of Indian Literature from Pre- Independent period to Post Independent period	Upto K5
		CO 5	acquire Sufficient knowledge about Research Methodology.	Upto K5
21PEHC34	SUBALTERN STUDIES	CO 1	gain knowledge of the marginalized, oppressed and exploited on the cultural,poli8tical,social and religious grounds	Upto K5
		CO 2	comprehend the themes such as oppression, marginalization, gender, discrimination, subjugations of lower and working classes	Upto K5
		CO 3	analyse the condition of the third world countries and the marginalized groups in the society	Upto K5
		CO 4	evaluate the political and cultural autonomy of the people who were subdued in colonial domains, as reflected in literature	Upto K5
		CO 5	imbibe social consciousness of the plight of the underprivileged people and working for that welfare	Upto K5
21PEHC35	MODERN LITERARY THEORY	CO 1	comprehend the recent trends and theories of literary criticism.	Upto K5



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		CO 2	compare and contrast the viewpoints of various literary theories.	Upto K5
		CO 3	analyse the concepts explained by different literary theorist	Upto K5
		CO 4	apply various literary theories to the study and interpretation of literatures.	Upto K5
		CO 5	develop and carry out research projects by evaluating, organizing and incorporating information effectively.	Upto K5
21PEHN31	PROFESSIONAL ENGLISH	CO 1	know the purpose of communication and basic grammar	Upto K5
		CO 2	know the traits and develop the Reading and writing skills	Upto K5
		CO 3	acquire professional communication knowledge	Upto K5
		CO 4	cope with the expectation of Industry	Upto K5
		CO 5	develop the communication style and language	Upto K5
21PEHC41	ENGLISH LITERATURE FOR COMPETITIVE EXAMINATIONS – II	CO 1	study in such a way that they could recollect the subject immediately	Upto K5
		CO 2	locate and identify the areas that require remedial measure for students	Upto K5
		CO 3	understand socio-linguistic-cultural variations from the International Literature	Upto K5



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		CO 4	attend various kinds of MCQ Literary competitive examinations without any chaos	Upto K5
		CO 5	acquire great knowledge of literature on many subjects	Upto K5
21PEHC42	AWARD WINNING AUTHORS	CO 1	assess the different techniques employed by the prominent writers	Upto K5
		CO 2	compile the characters in the works of Award Winning writers	Upto K5
		CO 3	classify the dramas in English literature and diagnose the literary awards	Upto K5
		CO 4	examine the concepts of various genres	Upto K5
		CO 5	appraise the way the writers tried to create an impact and contribute through writings.	Upto K5
21PEHC43	CANADIAN LITERATURE	CO 1	interpret the poems of major Canadian writer in English	Upto K5
		CO 2	perceive the values and human concern inherent in the Canadian cultural context	Upto K5
		CO 3	understand the importance and greatness of Canadian literature	Upto K5
		CO 4	analyse how language gives human understanding of Canadian society	Upto K5
		CO 5	discuss elaborately the culture and race of Canadian literature	Upto K5



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21PEHC44	INTRODUCTION TO CULTURAL STUDIES	CO 1	outline Cultural Studies, situating their learning within explorations of the disciplinary and historical context of the field.	Upto K5
		CO 2	utilise interdisciplinary critical perspectives to understand the diverse and contested meanings of cultural objects and process	Upto K5
		CO 3	explicate major theories that both influenced and evolved from Cultural Studies and their approach to high and popular culture	Upto K5
		CO 4	connect cultural knowledge to everyday life and practices	Upto K5
		CO 5	evaluate culture through oral and written modes of communication, with an emphasis on the skills of critical analysis and close reading	Upto K5
21PEHE41	PROJECT AND VIVA-VOCE	CO 1	make use of the critical theories to perceive how to write papers in literature	Upto K5
		CO 2	acquaint with the fundamentals of Research process in characterizing, instantiating, and critiquing the dominant critical theories, methodologies, and practices in the field.	Upto K5
		CO 3	interpret new literary works to build broad-based knowledge and skills necessary to fulfill their goals	Upto K5



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		CO 4	evaluate critically the sources they find	Upto K5
		CO 5	document and present their work in accordance with the concepts of research methodology	Upto K5
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21PCEC11	ADVANCED FINANCIAL MANAGEMENT	CO 1	gain the theoretical framework of financial management in business corporations	K1, K2
		CO 2	understand various sources of financing and financial planning	K1, K2
		CO 3	identify the management assets of the company	K1, K2
		CO 4	understand leverages	K1, K2
		CO 5	use the capital structure and dividend theories	K1, K2, K3
21PCEC12	APPLIED COSTING	CO 1	familiarize with the various cost concepts, and elements of cost	K1
		CO 2	understand the preparation of wage payment and incentive system under labour and overhead	K1, K2



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		CO 3	acquire the knowledge of application of process costing	K1
		CO 4	get acquaintance with the application of Marginal costing for Business decision making	K1, K2, K3
		CO 5	gain knowledge of cost control and reduction	K1, K2
21PCEC13	QUANTITATIVE TECHNIQUES FOR BUSINESS DECISIONS	CO 1	get a basic understanding of the value and use of quantitative methods in administrative and operational problem solving and decision-making	K1, K2, K3
		CO 2	gain an understanding of a variety of statistical and quantitative techniques applicable to a wide range of business situations	K1, K2
		CO 3	design the knowledge on testing on significance	K1, K2, K3
		CO 4	apply chi-square test and ANOVA	K1, K2, K3
		CO 5	use the knowledge of interpolation and various methods to solve problems	K1, K2, K3
21PCEC14	INTERNATIONAL	CO 1	gain knowledge of international business	K1



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	BUSINESS			
		CO 2	acquire the knowledge of international trading environment	K1, K2
		CO 3	understand the multinational enterprises	K1, K2
		CO 4	use the description of various aspects of international financial management	K1, K2, K3
		CO 5	gain the knowledge of recent developments in international business	K1, K2, K3
21PCEE11	HUMAN RESOURCE MANAGEMENT	CO 1	know the basics present trend in Human Resource Management	K1, K2
		CO 2	furnish the various job related aspects	K1, K2
		CO 3	know various aspects of Human development related issues	K1, K2
		CO 4	evaluate the quality aspects of human resources	K1, K2
		CO 5	adopt the safety aspects of Human Resources.	K1, K2
21PCES11	PRINCIPLES AND PRACTICES OF	CO 1	understand the basic concepts of banking	K1, K2



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	MODERN BANKING			
		CO 2	familiarize with the functioning of the commercial banks and the RBI	K1, K2
		CO 3	understand the e-banking and the modalities of bank accounts	K1, K2, K3
		CO 4	learn the functions of SBI and cooperative banks	K1, K2
		CO 5	describe the KYC norms while opening new bank account	K1, K2, K3
21PCEC21	ACCOUNTING FOR MANAGERS	CO 1	understand the applicability of financial statements for decision making	K1, K2, K3
		CO 2	use the knowledge in preparation, analysis and interpretation of financial statements	K1, K2
		CO 3	prepare cash flow and funds flow statements	K1, K2, K3
		CO 4	gain mastery over the preparation of variance analysis	K1, K2
		CO 5	have a good understanding of preparation of various budgets	K1, K2
21PCEC22	FINANCIAL MARKETS AND INSTITUTIONS	CO 1	understand the basic concepts of financial	K1, K2



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			markets	
		CO 2	gain the knowledge on the working of commercial paper market	K1
		CO 3	know the concept of capital market	K1
		CO 4	know the working of various credit rating agencies such as CRISIL, etc	K1, K2
		CO 5	understand the functioning of various financial institutions such as NABARD, EXIM bank, etc	K1, K2
21PCEC23	OPERATIONS RESEARCH	CO 1	understand the models of operations research	K1, K2, K3
		CO 2	apply the various techniques of operations research such as LPP – simplex method	K1, K2, K3
		CO 3	gain the knowledge of transportation problem – North west corner method, least cost method etc.	K1, K2, K3
		CO 4	apply the knowledge of balanced and unbalanced assignment problems	K1, K2, K3
		CO 5	analyze the calculation of game theory	K1, K2, K3



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21PCEC24	ENTERPRISE RESOURCE PLANNING (ERP)	CO 1	know the evaluation of ERP, systems, technology and the background of ERP	K1, K2
		CO 2	understand the various aspects of business processes	K1, K2
		CO 3	gain knowledge about BPR	K1, K2
		CO 4	acquire the knowledge of ERP system implementation	K1, K2
		CO 5	remember about SCM and CRM	K1, K2
21PCEE21	ORGANIZATIONAL BEHAVIOUR	CO 1	gain the knowledge of organizational behaviour in current scenario	K1, K2
		CO 2	learn the approaches of the organization	K1, K2
		CO 3	understand the personality and motivation	K1, K2
		CO 4	gain the organizational structure and change	K1, K2
		CO 5	ability to understand the leadership and stress management	K1, K2
21PCES21	ENTREPRENEURIAL DEVELOPMENT	CO 1	analyze various aspects of entrepreneur especially of taking over the risk, and the specificities as well as the pattern of entrepreneurship development and, finally,	K1, K2



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			to contribute.	
		CO 2	prepare project report and project formulation feasibility report	K1, K2
		CO 3	gain knowledge of entrepreneurship development. Innovation and entrepreneurship	K1, K2
		CO 4	acquire the knowledge of entrepreneurial and managerial potentials	K1, K2
		CO 5	prepare project report and sources of finance and have the knowledge of government related incentives and subsidies	K1, K2, K3
21PCEC31	ADVANCED COMPANY ACCOUNTS – I	CO 1	explain the International and Indian accounting standards with its procedure and formulation	Upto K5
		CO 2	construct the financial statements of companies within the framework of Indian Accounting Standards	Upto K5
		CO 3	follow various methods of valuation of goodwill and shares	Upto K5
		CO 4	analyze and prepare the financial statements in case of liquidation of company	Upto K5
		CO 5	compute the various methods of inflation	Upto K5



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			accounting to the changing business conditions	
21PCEC32	GOODS AND SERVICES TAX	CO 1	understand the objectives, Canons of Taxation, Characteristics of a Good Tax system in India	Upto K5
		CO 2	acquire the knowledge of the GST Council and GST Council Secretariat	Upto K5
		CO 3	impart knowledge on goods exempt from Goods and Services Tax	Upto K5
		CO 4	understand the knowledge on Place of Supply, Time of supply of Goods and Value of Supply	Upto K5
		CO 5	know about Refund of Taxes in the Case of Zero rated Supplies	Upto K5
21PCEC33	BUSINESS RESEARCH METHODS	CO 1	apply a range of quantitative and / or qualitative research techniques to social science research	Upto K5
		CO 2	develop necessary critical thinking skills in order to evaluate different methods used in data collection	Upto K5
		CO 3	organize and conduct research in a more appropriate sampling method manner	Upto K5
		CO 4	demonstrate knowledge and understanding of data processing	Upto K5
		CO 5	write a research report and thesis	Upto K5
21PCEE31	MANAGEMENT	CO 1	gain in-depth knowledge on information	Upto K5



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	INFORMATION SYSTEMS		systems in business and their management	
		CO 2	learn the objectives and components of data base management systems.	Upto K5
		CO 3	know the approaches involved in developing MIS	Upto K5
		CO 4	know the transaction processing and support system	Upto K5
		CO 5	gain knowledge on functional information systems.	Upto K5
21PCEE32	PROJECT MANAGEMENT	CO 1	understand project characteristics and various stages of a project	Upto K5
		CO 2	grasp the main issues and questions in project identification, formulation and design	Upto K5
		CO 3	apply risk management plan and analyse the market and demand forecasting	Upto K5
		CO 4	analyse the learning and understand techniques for project planning, scheduling and financing	Upto K5
		CO 5	translate a project design into implementation tools particularly work plans	Upto K5
21PCEE33	CUSTOMER RELATIONSHIP MANAGEMENT	CO 1	understand the basic concepts of customer relationship management	Upto K5



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		CO 2	develop the key steps and consideration within the acquisition planning process	Upto K5
		CO 3	make the learners specific skills for Customer Interaction Management (CIM)	Upto K5
		CO 4	identify the major Internet sources for carrying out e-CRM	Upto K5
		CO 5	enable the students to integration of CRM with ERP(Enterprise Resource Planning) System	Upto K5
21PCES31	ELEMENTS OF FINANCIAL SERVICES	CO 1	gain and understand the concepts of financial service market and environment	Upto K5
		CO 2	know about the basic concepts in leasing and factoring	Upto K5
		CO 3	acquire knowledge of public issue management and higher purchase concepts	Upto K5
		CO 4	learn the working mechanism of stock exchanges	Upto K5
		CO 5	acquaint knowledge about various credit rating techniques	Upto K5
21PCEN31	TOURISM DEVELOPMENT	CO 1	gain in-depth knowledge on the concepts of tourism	Upto K5
		CO 2	learn the development in India and land for all seasons.	Upto K5
		CO 3	understand the tourist Marketing and tourist products	Upto K5
		CO 4	know the sales support, advertising and	Upto K5



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			public relation	
		CO 5	gain knowledge on international union of official travel organisation	Upto K5
21PCEC41	ADVANCED COMPANY ACCOUNTS – II	CO 1	have the practical implication in the preparation of holding company accounts	Upto K5
		CO 2	Analyze and prepare the financial statements of bank accounts	Upto K5
		CO 3	construct the financial statements of Insurance company accounts with the modified format	Upto K5
		CO 4	Familiarize the procedure involved in the preparation double account system	Upto K5
		CO 5	Gain knowledge about human resource accounting and social responsibility accounting	Upto K5
21PCEC42	BUSINESS ENVIORNMENT AND POLICY	CO 1	exhibit the elementary knowledge of business and social responsibility	Upto K5
		CO 2	understand the external and internal influences of business environment.	Upto K5
		CO 3	acquire the knowledge of industrial policy and new industrial policy	Upto K5
		CO 4	gain knowledge about consumer protection act, and have knowledge in privatization.	Upto K5
		CO 5	acquire knowledge about industrial sickness	Upto K5



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21PCEC43	LOGISTICS AND SUPPLY CHAIN MANAGEMENT	CO 1	gain the functions and importance of logistics management.	Upto K5
		CO 2	provide the customer service and various approaches to study channels.	Upto K5
		CO 3	understand effective transportation system, and cost characteristics by mode.	Upto K5
		CO 4	acquire the knowledge of logistics into an integrated process.	Upto K5
		CO 5	understand the concepts related to pricing obstacles to coordination in a supply chain, goals and incentives	Upto K5
21PCEC44	MERCHANT BANKING	CO 1	be familiar with the various merchant banking services	Upto K5
		CO 2	understand the public issue management and marketing of new issue	Upto K5
		CO 3	acquire knowledge about post- issue activities and various types of prospectus	Upto K5
		CO 4	receive knowledge about importance of underwriting of securities and aware of capital market instruments	Upto K5
		CO 5	understand the consumer finance and hire purchase system	Upto K5
21PCEE41	E – COMMERCE	CO 1	understand the basic concept of E-commerce and its applications	Upto K5
		CO 2	gain knowledge on EDI	Upto K5



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		CO 3	analyse e–security and the web	Upto K5
		CO 4	gain knowledge on e–marketing and its application	Upto K5
		CO 5	apply various digital payment methods	Upto K5
21PCEE42	INVESTMENT MANAGEMENT	CO 1	understand different investment alternatives in the market and how securities are traded in the market	Upto K5
		CO 2	remember the general structure of various financial markets	Upto K5
		CO 3	apply different valuation models to evaluate fixed income securities and stocks	Upto K5
		CO 4	know how financial markets work, and to analyze the securities	Upto K5
		CO 5	analyse the fundamental and technical analysis and portfolio	Upto K5
21PCEE43	MARKETING MANAGEMENT	CO 1	demonstrate strong conceptual knowledge in the functional area of marketing management	Upto K2
		CO 2	analyse the concepts of segmentation, targeting and positioning	Upto K4
		CO 3	realize the importance and significance of quality	Upto K3
		CO 4	apply the theoretical and practical issues of conducting business over the internet and the web	Upto K5



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		CO 5	understand the process of marketing research and its different processes	Upto K4
21PCES41	RETAIL MARKETING	CO 1	gain knowledge of retailing and other basic thing.	Upto K5
		CO 2	understand the types of retailers	Upto K5
		CO 3	gain knowledge of retail location strategies.	Upto K5
		CO 4	highlight the branding in retailing.	Upto K5
		CO 5	acquire knowledge about consumerism and retailing in India	Upto K5
M.Sc. MATHAMETICS				
21PMSC11	GROUPS AND RINGS	CO 1	understand the concepts counting principle and Sylow's theorem	K1
		CO 2	analyze finite Abelian groups	K2,K3
		CO 3	explain rings and its applications	K1,K2,K3
		CO 4	provide information about Euclidean rings	K2,K3
		CO 5	concentrate on Polynomial rings	K2,K3
21PMSC12	MATHEMATICAL ANALYSIS – I	CO 1	prove theorems using relevant definitions	K1, K2
		CO 2	describe the concepts of convergent, Cauchy sequence and provide the proof of	K2, K3



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			numbers	
		CO 3	compare and identify suitable test to test series.	K2, K3
		CO 4	apply connectedness concepts to prove theorems.	K1, K2
		CO 5	prove theorem based on the Derivative of Real Function.	K2, K3
21PMSC13	DISCRETE MATHEMATICS	CO 1	understand the concepts of connectives, truth tables, tautologies and contradiction, equivalence of formulas.	K2
		CO 2	gain knowledge about Principal Conjunctive and Disjunctive Normal Forms.	K1
		CO 3	understand Grammar and Language and analyse Polish Expressions and Complications.	K2,K3
		CO 4	gain knowledge about Lattices, Direct Product of Lattices.	K1
		CO 5	understand the concepts of Special Lattices, Boolean Algebra and Boolean Functions and applies them to find the values of	K2,K3



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			Boolean Expressions.	
21PMSC14	TOPOLOGY	CO 1	identify the category of various topology on the given spaces.	K1,K2
		CO 2	describe the continuous function and product topology concepts.	K2, K3
		CO 3	find the given spaces are connected or not and also to identify the compact spaces.	K2
		CO 4	prove theorems based on countability axioms and separation axiom.	K2, K3
		CO 5	explain the normal spaces concepts and to prove the Urysohn's metrization theorem and lemma.	K2, K3
21PMSE11	DIFFERENTIAL GEOMETRY	CO 1	define tangent, normal, torsion and involutes and evolutes of the space curves..	K1, K2
		CO 2	describe the intrinsic properties and surfaces of revolution.	K1, L3
		CO 3	explain the geodesics concepts of the curve and their properties.	K1, K2
		CO 4	prove the theorems based on geodesics curvature and Gauss-Bonnet theorem by using higher concepts.	K1, K3
		CO 5	identify the developable curves associated with space curves and surfaces.	K2
21PMSE12	GRAPH THEORY	CO 1	solve shortest path problems	K1, K2



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		CO 2	describe the concepts of trees, cut vertices and blocks	K2, K3
		CO 3	solve theorems in Eulerian and Hamiltonian graphs.	K3
		CO 4	identify matchings and coverings	K1, K2
		CO 5	find the chromatic number of a graph.	K2, K3
21PMSC21	LINEAR ALGEBRA	CO 1	understand the concepts of Linear independence, bases and Dual spaces.	K1
		CO 2	discuss Algebra of Linear Transformations and Characteristics roots and Matrices.	K2
		CO 3	study Canonical forms Triangular forms and Nilpotent Transformations.	K2, K3
		CO 4	analyze rational canonical forms Trace and transpose and Determinants.	K3
		CO 5	understand the concept of the Hermitian, Unitary and Normal Transformations.	K2, K3
21PMSC22	REAL ANALYSIS	CO 1	define properties of Riemann-Stieltjes integral and differentiation	K1
		CO 2	extend to complex-valued and vector-valued	K2



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			functions on intervals	
		CO 3	understand the concept of uniform convergence and continuity	K2, K3
		CO 4	study Equi continuous families of functions and Stone-Weierstrass theorem	K1, K3
		CO 5	derive properties of functions by power series.	K2, K3
21PMSC23	DIFFERENTIAL EQUATIONS	CO 1	find the solution of homogeneous equation and the Relation between Wronskian and linear independence of the solution of the equation, and enable to apply uniqueness theorem	K1, k2
		CO 2	find the regular singular points of the second order equation and Bessel's equation and power series solution	K1, K3
		CO 3	apply Lipschitz's theorem and Find the Lipschitz's constant of the Initial Value Problem	K3
		CO 4	understand different methods of solving partial differential equations and find the integral surface passing through the given	K2



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			curve.	
		CO 5	identify the compatible system of First order equations and its solution.	K1, K3
21PMSC24	NUMERICAL ANALYSIS	CO 1	list out and discuss various iteration methods based on first degree and second degree equations.	K1, k2
		CO 2	compute Eigen values and Eigen vectors of a square matrix and its bounds.	K2, K3
		CO 3	acquire the knowledge of interpolation of polynomials.	K1, K3
		CO 4	discuss Numerical differentiation and Numerical integration.	K1, K3
		CO 5	form difference equations and to discuss Numerical methods.	K1, K2
21PMSE21	CLASSICAL MECHANICS	CO 1	to list out different types constraints with examples	K1, K2
		CO 2	to illustrate various principle and apply calculus of variation techniques to solve problems.	K2, K3
		CO 3	to derive Lagrange equation..	K3



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		CO 4	to apply viral theorem to derive special cases.	K2
		CO 5	to recognize and solve problem based on power law potential.	K2, K3
21PMSE22	FUZZY SETS AND LOGICS	CO 1	list out different types operations with examples	K1, k2
		CO 2	illustrate various arithmetic operations on intervals and fuzzy numbers	K2, K3
		CO 3	list out various fuzzy relations	K3
		CO 4	list out various fuzzy propositions.	K2
		CO 5	recognize applications of fuzzy theory in various fields.	K2, K3
21PMSE23	VISUAL BASIC THEORY	CO 1	understand the concept of tool box, message box, input box, variables, data types and constants.	K1,K2
		CO 2	gain knowledge about displaying information, controlling program flow and built-in functions.	K1
		CO 3	understand arrays, control arrays and common dialogue boxes.	K2



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		CO 4	analyze mouse activities and file handling.	K2,K3
		CO 5	gain knowledge about overview of COM/OLE and SQL base and database objects and understands the related topics.	K1,K2
21PMSC31	FIELD THEORY AND ITS EXTENSION	CO 1	discuss Extension Fields and transcendence of e	Upto K5
		CO 2	analyze Roots of the Polynomials and Construction by straight edge and compass	Upto K5
		CO 3	explain more about roots and Elements of Galois theory	Upto K5
		CO 4	provide information on Solvability by radicals, Galois groups over the rationals	Upto K5
		CO 5	concentrate on finite fields	Upto K5
21PMSC32	ANALYSIS – III	CO 1	discuss the concepts of Linear transformations and contraction principle.	Upto K5
		CO 2	study the implicit function, rank theorems and determinants.	Upto K5
		CO 3	understand the concept of measure on the real line.	Upto K5
		CO 4	study Regularity and measurable functions.	Upto K5
		CO 5	study the integration of functions of a real variable.	Upto K5
21PMSC33	FUNCTIONAL ANALYSIS – I	CO 1	learn about continuous linear transformations.	Upto K3



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		CO 2	prove open mapping theorems	Upto K3
		CO 3	learn the properties of orthogonal complements	Upto K3
		CO 4	discuss orthonormal sets and the adjoint of an operator	Upto K3
		CO 5	learn self-adjoint operators and projections	Upto K3
21PMSC34	STATISTICS – I	CO 1	understand the concept of random variables, Expectations of random variables and Chebyshev's Inequality.	Upto K3
		CO 2	study the joint behavior of two random variables and their distributions and extend it to several random variables.	Upto K3
		CO 3	identify and apply appropriate probability distributions to solve real life problems.	Upto K3
		CO 4	understand the Sampling theory, Transformations of variables and use various distributions like beta, t, and F distributions to solve statistical problems.	Upto K3
		CO 5	apply the concepts of convergence; understand central limit theorem and theorems on limiting distributions.	Upto K3
21PMSN31	BUSINESS STATISTICS	CO 1	understand Mean, Median, Mode and their merits and demerits. .	Upto K5
		CO 2	gain knowledge about Skewness, Quartile Deviation, Standard Deviation.	Upto K5



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		CO 3	understand Coefficient of Variation, Pearson and Bowley coefficient of skewness.	Upto K5
		CO 4	understand Correlation and Rank Correlation .	Upto K5
		CO 5	gain knowledge about Index Numbers and different methods of finding index numbers.	Upto K5
21PMSN32	MATHEMATICS FOR COMPETITIVE EXAMINATIONS	CO 1	find L.C.M & H.C.F, convert between decimals & fractions and applying BODMAS rule.	Upto K5
		CO 2	solve the age based problems and average based problems.	Upto K5
		CO 3	analyse relation between cost price & selling price, gain or loss.	Upto K5
		CO 4	analyse problems on interest, amount, principal & rate of interest, difference between Simple Interest & Compound Interest.	Upto K5
		CO 5	solve problems related to time, work and distance .	Upto K5
21PMSC41	COMPLEX ANALYSIS	CO 1	calculate the absolute values of the complex numbers and Inequalities and Identities.	UptoK5
		CO 2	explain the concepts of power series and trigonometric series and analytic function.	Upto K5
		CO 3	identify the various types of transformations and to explain the conformality concepts	UptoK5



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		CO 4	prove the cauchy's integral formula and to do the problems based on the formula.	UptoK5
		CO 5	explain the general form of cauchy's theorem and to find residues.	Upto K5
21PMSC42	NUMBER THEORY	CO 1	apply Euclidean algorithm, to find gcd of two or more numbers.	Upto K3
		CO 2	find Bell series, power series	Upto K3
		CO 3	employ congruence and Lagrange's theorem	Upto K3
		CO 4	employ simultaneous linear congruence, quadratic residue and to evaluate $(-1 p)$ and $(2 p)$	Upto K3
		CO 5	apply reciprocity laws and Jacobi symbols	Upto K3
21PMSC43	OPERATIONS RESEARCH	CO 1	find shortest route using various algorithms	Upto K5
		CO 2	find critical path and determining floats	Upto K5
		CO 3	develop mathematical and modeling skills required to evaluate queuing systems.	Upto K5
		CO 4	use Jacobian and Lagrangean methods for problems with equality constraints, KKT conditions for problems with inequality constraints.	Upto K5
		CO 5	solve unconstrained problems using Direct search method and Gradient method..	Upto K5



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21PMSC44	STATISTICS – II	CO 1	understand the concept of point estimation, confidence intervals and applies chi-squared tests to test the hypotheses.	Upto K5
		CO 2	gain knowledge about sufficient statistic, completeness and unique	Upto K5
		CO 3	understand Fisher Information and Rao-Cramer Inequality	Upto K5
		CO 4	analyze Best Tests, Likelihood Ratio Tests and Sequential Probability Ratio Tests and applies to statistical hypotheses.	Upto K5
		CO 5	gain knowledge about distribution of quadratic forms, test of equality of means and understands the related concepts	Upto K5
21PMSE41	ADVANCED TOPOLOGY	CO 1	discuss The Tychonoff Theorem – The Stone – Cech Compactification – Local Finiteness	Upto K5
		CO 2	analyze The Nagata –Smirnov Theorem – Para Compactness –The Smirnov Metrization Theorem	Upto K5
		CO 3	explain Complete Metric Spaces – A Space Filling Curve	Upto K5
		CO 4	provide information on Compactness in Metric Spaces –Pointwise and Compact Convergences –Ascoli's Theorem	Upto K5
		CO 5	concentrate on Baire Spaces – A nowhere differentiable function	Upto K5



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21PMSE42	FUNCTIONAL ANALYSIS – II	CO 1	understand the basic Knowledge of Matrices, Determinants, Spectrum of an operators, Simple Theorem	Upto K3
		CO 2	apply the definition of Regular and Singular elements and Basic Theorems	Upto K3
		CO 3	apply the formula for spectral radius and simple theorem	Upto K3
		CO 4	discuss Gelfand mapping concepts and applications of various theorems	Upto K3
		CO 5	apply the basic definitions and study the Gelfand Neuman theorem	Upto K3
SELF – FINANCE				
MASTER OF BUSINESS ADMINISTRATION (M.B.A)				
21MBAC11	MANAGEMENT THEORY & PRACTICES	CO 1	understand the concept of Management theories and its evolution.	K2
		CO 2	understand the concepts of planning and will be able to apply	K2, K3
		CO 3	compare various Organisational Structure	K2
		CO 4	understand and apply the staffing process and appraisal	K2, K3
		CO 5	summarize the directing and controlling process.	K2
21MBAC12	ORGANIZATIONAL BEHAVIOUR	CO 1	define and understand basic concepts of Organization Behaviour	K1, K2



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		CO 2	infer the individual behaviour in the Organisations	K2
		CO 3	explain about group behaviour in Organisation	K2, K3
		CO 4	understand the group behaviour in Organisation	K3
		CO 5	understand the Organisation Dynamics	K2, K3
21MBAC13	MANAGERIAL ECONOMICS	CO 1	understand the nature and scope of managerial economics and its impact on decision making in business. Show the relationship between price and demand and how demand changes in different situations.	K2
		CO 2	understand the various types of cost of production.	K2
		CO 3	compare the nature of different markets and pricing decisions in each market.	K2
		CO 4	decide price under different market situations.	K3
		CO 5	relate how monetary policy and fiscal policy influences business.	K2
21MBAC14	MANAGEMENT ACCOUNTING	CO 1	understand the fundamentals of Financial Accounting and will be able to prepare the books of accounts	K2, K3
		CO 2	prepare the final accounts with adjustments	K3



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		CO 3	understand the fundamentals of cost accounting and cost volume profit analysis and will be able to apply in solving marginal costing problems	K2, K3
		CO 4	prepare various types of budgets	K3
		CO 5	solve the problems in variance analysis	K2, K3
21MBAC15	MANAGERIAL COMMUNICATION	CO 1	apply the fundamental of communication in personal and professional life.	K3
		CO 2	develop listening, writing, speaking, and reading skills.	K3
		CO 3	apply professional behaviour and standards for appearances, action and attitude in personal life	K3
		CO 4	make use of techniques in presentations and will follow the etiquettes of Email and telephonic	K3
		CO 5	write letters, memos and minutes of meeting	K3
21MBAWS1	WORKSHOP ON MANAGERIAL SKILLS – I	CO 1	evaluate self behaviour and character and able to set goals.	K2, K3
		CO 2	understand importance of positive attitude and will apply in personal life.	K2, K3
		CO 3	influence people and become a good team leader.	K2, K3



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		CO 4	apply model based decision making.	K2, K3
		CO 5	make of use of communication techniques and presentation techniques in life.	K2, K3
21MBAC21	QUANTITATIVE METHODS	CO 1	solve the problems in business mathematics.	K2,K3
		CO 2	understand and solve the problemsin measures of central tendency and dispersions.	K2,K3
		CO 3	solve the problems in relation to relationship between two data.	K2,K3
		CO 4	analyse between an event and an outcome for an experiment.	K2,K3
		CO 5	make use of observed values to predict the future values of time series.	K2, K3
21MBAC22	MARKETING MANAGEMENT	CO 1	understand the core concepts and Fundamentals of Marketing.	K1, K2
		CO 2	explain Market Strategic Planning by gathering information	K1, K2
		CO 3	explain about Segmenting and Positioning	K1, K2
		CO 4	understand about the Product and pricing strategies.	K1, K2
		CO 5	explain fundamentals of distribution channels and promotion strategies.	K1, K2
21MBAC23	FINANCIAL	CO 1	understand the basic concepts in financial management.	K2, K3



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	MANAGEMENT			
		CO 2	explain the capital structure and solve problems related to cost of capital.	K2, K3
		CO 3	analyse a balance sheet .	K2, K3
		CO 4	solve problem related to investment decisions	K2, K3
		CO 5	understand and solve the problems related to liquidity of the organisation	K2, K3
21MBAC24	OPERATION MANAGEMENT	CO 1	understand the basic fundamental concepts of Operations Management	K1, K2
		CO 2	understand about product design, process planning, capacity planning, Plant vocational decisions and plant Layout	K2
		CO 3	explain the concepts of aggregate production planning and Supply Chain Management	K2
		CO 4	understand the concepts of Inventory Management	K2
		CO 5	solve the issues related to technique in Project Management	K2, K3
21MBAC25	HUMAN RESOURCES MANAGEMENT	CO 1	understand the basic concepts and fundamentals of HRM.	K1, K2
		CO 2	explain the HR planning and job analysis.	K1, K2
		CO 3	interpret selections process, appraisal learning and development and	K1, K2



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			compensation.	
		CO 4	explain about the grievance handling and discipline	K1, K2
		CO 5	understand the Industrial Relations and Its concepts	K1, K2
21MBAC26	BUSINESS RESEARCH METHODS	CO 1	understand the basic concepts and fundamentals of Research Methodology	K2
		CO 2	interpret Research design and sampling techniques.	K2
		CO 3	illustrate the scaling techniques and methods of data collections.	K2
		CO 4	understand and solve the problems related to Research Methodology	K2,K3
		CO 5	explain the insights of Interpretation and Report Writing.	K2
21MBAWS2	Workshop on Managerial Skills -II	CO 1	build good relationships.	K2, K3
		CO 2	utilise all the concepts of time management and stress management techniques in personal life.	K2, K3
		CO 3	make use of these skills to arrive at win-win situation.	K2, K3
		CO 4	think outside the box and to solve emotional problems.	K2, K3
		CO 5	create new business plans and improve memory techniques.	K6



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21MBAC31	OPERATIONS RESEARCH	CO 1	formulate linear programs and apply graphical and simplex methods to solve business problems.	Upto K3
		CO 2	apply decision theory and decision making tools and techniques for making business decisions at different environments	Upto K3
		CO 3	understand and apply Transportation	Upto K3
		CO 4	formulate Game Theory and apply Dominance Principle methods to solve business problems.	Upto K3
		CO 5	apply Markov chain and its applications to business.	Upto K3
21MBAC32	BUSINESS ENVIRONMENT AND LAW	CO 1	understand the concept and relationship of business environment & law and strategic management.	Upto K3
		CO 2	analyse the different types of environment analysis	Upto K3
		CO 3	understand the duties and functions of government bodies	Upto K3
		CO 4	understand the concept of technology in business	Upto K3
		CO 5	understand and analyse about liberalization and its impact on Indian business.	Upto K3
21MBAE31	TRAINING AND DEVELOPMENT	CO 1	understand the concept training and development	Upto K3



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		CO 2	understand and apply various training functions and needs	Upto K3
		CO 3	understand the training pedagogy.	Upto K3
		CO 4	apply and analyse the different methods of on the job and off the job training methods.	Upto K3
		CO 5	understand and application of training evaluation process.	Upto K3
21MBAE32	COMPENSATION MANAGEMENT	CO 1	understand The Concept of Compensation Management and	Upto K3
		CO 2	understand the Various Compensation Decisions.	Upto K3
		CO 3	explain about Job Evaluation and Component	Upto K3
		CO 4	understand about National Policy	Upto K3
		CO 5	understand about Management of Employee and role	Upto K3
21MBAE33	TALENT AND KNOWLEDGE MANAGEMENT	CO 1	know and Understand the concept Of Talent, Difference between Talent and Knowledge.	Upto K3
		CO 2	understand about Talent Management System and Emerging Trends in Talent Management	Upto K3
		CO 3	acquire skills on Talent Planning	Upto K3



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		CO 4	understand and apply the Tools of Talent Management Information System.	Upto K3
		CO 5	understand Knowledge Management and analyse its Knowledge Management Metrics and Audit.	Upto K3
21MBAE34	DIGITAL MARKETING	CO 1	understand the Concept of Digital Marketing and its components.	Upto K3
		CO 2	understand various Digital Marketing Research techniques and the Internet and its uses.	Upto K3
		CO 3	acquire skills on Search Engine Marketing	Upto K3
		CO 4	understand about Social Media	Upto K3
		CO 5	understand various Strategies and apply Tools of Online Reputation.	Upto K3
21MBAE35	BRAND MANAGEMENT	CO 1	understand the Concept of brand and its Types with its Components.	Upto K3
		CO 2	understand various Brand Positioning and Buying Decision Perspectives on Consumer Behaviour	Upto K3
		CO 3	understand Brand Equity	Upto K3
		CO 4	understand and apply The Tool of Search Engine Marketing and Online Advertising.	Upto K3
		CO 5	understand Brand Valuation and its Methods of Valuation	Upto K3
21MBAE36	ADVERTISING &	CO 1	understand the Concept of Advertising and	Upto K3



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	SALES PROMOTION MANAGEMENT		its types of advertisement.	
		CO 2	understand various Objectives and functions of Advertising.	Upto K3
		CO 3	acquire skills on Advertisement Budgets and Effectiveness.	Upto K3
		CO 4	understand and apply Sales Promotion.	Upto K3
		CO 5	understand various Publicity and Public Relations and analyse Public relations officer roles and functions.	Upto K3
21MBAE37	INDIAN CAPITAL MARKETS	CO 1	understand the structure, functions & operations of Indian financial system	Upto K3
		CO 2	understand the role and policy measures of Development Financial Institutions	Upto K3
		CO 3	understand the Analysis of securities market and investment environment	Upto K3
		CO 4	understand the securities market regulations, Market intermediaries and SEBI Act	Upto K3
		CO 5	understand the financial services, Merchant banking and its Regulations	Upto K3
21MBAE38	INTERNATIONAL TRADE AND FINANCIAL DOCUMENTATION	CO 1	understand the basics of international trade and related concepts, policies and procedures	Upto K3



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		CO 2	understand the concepts of exporting procedures and documentation during shipment	Upto K3
		CO 3	be aware of Import license policy and its procedures	Upto K3
		CO 4	get an overview of Export incentives in EPCG, Duty drawbacks, duty exemption schemes	Upto K3
		CO 5	discuss the Export and trading houses schemes and procedures for EOU/FTZ/EPZ/SEZ units	Upto K3
21MBAE39	CORPORATE VALUATION AND RESTRUCTURING	CO 1	understand the role of Valuation in Business Acquisition and Corporate Finance, Valuation Process.	Upto K3
		CO 2	explain the Direct Comparison and Peer Group Approach, Contingent Claim Valuation.	Upto K3
		CO 3	understand the Valuation of Debentures, Valuation of Equity Shares, and Valuation of Preference Shares.	Upto K3
		CO 4	explain the Amalgamation, Absorption, Tender Offer, Asset Acquisition and Joint Venture.	Upto K3
		CO 5	understand the Concepts of Value in Context of Mergers & Acquisitions.	Upto K3
21MBAN31	MANAGERIAL	CO 1	understand the concept of Management theories and its	Upto K3



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	PRINCIPLES AND PRACTICES		evolution	
		CO 2	understand the concepts of planning and will be able to apply	Upto K3
		CO 3	understand and compare various Organisational Structures	Upto K3
		CO 4	understand and apply the Staffing Process and Appraisal	Upto K3
		CO 5	summarize the directing and controlling process.	Upto K3
21MBAWS3	WORKSHOP ON MANAGERIAL SKILLS –III	CO 1	know and deal with Conflicts	Upto K3
		CO 2	understand and develop Assertiveness skill	Upto K3
		CO 3	apply Creativity in business	Upto K3
		CO 4	know and apply how to plan Business	Upto K3
		CO 5	make use of Memory techniques	Upto K3
21MBAC41	ENTREPRENEURSHIP	CO 1	understand the concept of Entrepreneurship	Upto K3
		CO 2	know and understand the concepts of Entrepreneurial Development Agencies	Upto K3
		CO 3	understand and apply Project Management	Upto K3
		CO 4	understand and apply Entrepreneurial	Upto K3



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			Development Programmes	
		CO 5	understand and summarize the Role of Entrepreneur & Women Entrepreneurship	Upto K3
21MBAC42	STRATEGIC MANAGEMENT	CO 1	get a detailed framework on Strategic Management concept	Upto K3
		CO 2	understand the concepts of Strategic Formulation in relation with the analysis of SWOT, ETOP, etc.	Upto K3
		CO 3	understand the Corporate level strategies and Core competence concept	Upto K3
		CO 4	understand Strategic Analysis and choice and Implementation	Upto K3
		CO 5	understand and analyse the framework of evaluating strategic and control.	Upto K3
21MBAE41	INTERNATIONAL HUMAN RESOURCE MANAGEMENT	CO 1	formulate approaches to IHRM and identify role of HRM in international firms.	Upto K3
		CO 2	demonstrate different cultures and its values.	Upto K3
		CO 3	plan recruitment & selection practices in MNCs and design T&D components.	Upto K3
		CO 4	apply performance appraisal and compare approaches to Compensation Management.	Upto K3
		CO 5	assess comparative practices of Industrial relations internationally.	Upto K3



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21MBAE42	ORGANISATIONAL DEVELOPMENT	CO 1	describe the features, role and problems of Organisation Development.	Upto K3
		CO 2	explain the Organisation Development process and organisational change.	Upto K3
		CO 3	discuss various Organisation Development intervention strategies.	Upto K3
		CO 4	analyse the role of different people in Organisations	Upto K3
		CO 5	understand the concept of Organisation Climate and assess Organisational Effectiveness and explain the Organisation Development process and organisational change.	Upto K3
21MBAE43	LABOUR LEGISLATION	CO 1	discuss the concept and principles of legislation and the role of Labour Welfare Officer	Upto K3
		CO 2	explain the various Acts relevant to labour legislation	Upto K3
		CO 3	discuss some of the relevant Acts in relation with Labour Legislation	Upto K3
		CO 4	create an idea about the Acts that are	Upto K3



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			relevant to Laws	
		CO 5	identify the provisions Industrial Disputes Act	Upto K3
21MBAE44	CONSUMER BEHAVIOUR	CO 1	understand the concept of Consumer Behaviour	Upto K3
		CO 2	understand Social and Cultural Environment	Upto K3
		CO 3	understand and compare various Organisational Structure	Upto K3
		CO 4	understand and apply the Staffing Process and Appraisal	Upto K3
		CO 5	summarise the directing and controlling process.	Upto K3
21MBAE45	SERVICES MARKETING	CO 1	understand the concept in Services marketing	Upto K3
		CO 2	analyse and develop Marketing plan and Service Marketing Mix	Upto K3
		CO 3	understand and compare various Strategies	Upto K3
		CO 4	understand and Analyse service offers	Upto K3
		CO 5	understand the concept and importance of Promotion Mix	Upto K3
21MBAE46	RETAIL MARKETING	CO 1	understand the concept in Services marketing	Upto K3



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		CO 2	analyse and develop Retail Formats	Upto K3
		CO 3	analyse and understand and various Retailing Decisions.	Upto K3
		CO 4	understand and apply Retail Shop Management	Upto K3
		CO 5	know and understand the Retail Shopper Behaviour	Upto K3
21MBAE47	MERCHANT BANKING AND FINANCIAL SERVICES	CO 1	understand the concept of merchant banking and trends in its growth and development	Upto K3
		CO 2	understand the securities contract regulation act and company act	Upto K3
		CO 3	explain the SEBI guidelines and underwriting of issues	Upto K3
		CO 4	understand the concept of mutual fund and evaluation of performance	Upto K3
		CO 5	understand the activities of other financial service providers	Upto K3
21MBAE48	INVESTMENT AND PORTFOLIO MANAGEMENT	CO 1	understand the concepts of investment and factors influencing investment.	Upto K3
		CO 2	understand the concept of risk and sources of risk in investment	Upto K3
		CO 3	explain the fundamental of analysis and its different approaches	Upto K3



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		CO 4	become familiarize with portfolio analysis and its models.	Upto K3
		CO 5	understand and apply the capital asset pricing model	Upto K3
21MBAE49	FUNDAMENTALS OF INSURANCE MANAGEMENT	CO 1	outline the concepts of risk in 'life insurance' and explain the fundamentals of agency law and explain the fundamentals of agency law	Upto K3
		CO 2	explain life insurance plans and identify insurance companies in India	Upto K3
		CO 3	compute premiums and bonuses for insurance policies	Upto K3
		CO 4	evaluate general insurance business and its forms	Upto K3
		CO 5	assess other types of general insurance	Upto K3
MASTER OF COMPUTER APPLICATIONS (M.C.A)				
21MCAC11	Mathematical Foundation for Computer Applications	CO 1	implement statistical measures and explore its applications	Upto K5
		CO 2	understand the logical operations and predicate calculus needed for computing skill	Upto K5
		CO 3	basic knowledge of functions and relations concepts needed for designing and solving problems.	Upto K5



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		CO 4	apply the acquired knowledge of formal languages to the engineering areas like Compiler	Upto K5
		CO 5	design the finite automata theory and to design discrete problems to solve by computers.	Upto K5
21MCAC12	Problem Solving through C& C++	CO 1	understand the use of structured program development in C as applied to both large software systems and to small programming projects.	Upto K5
		CO 2	implement the concept of operators and control structures.	Upto K5
		CO 3	understand the use of arrays, functions, structures, unions and pointers.	Upto K5
		CO 4	developing skill of object-oriented programming concept.	Upto K5
		CO 5	gain the knowledge regarding File concepts in C++Programming.	Upto K5
21MCAC13	Digital Principles and Computer Organization	CO 1	gain knowledge about logical circuits and number system.	Upto K5
		CO 2	understand the basics of computer architecture	Upto K5



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		CO 3	construct an instruction set capable of performing a specified set of operations. Demonstrate a memory system for a given set of specifications.	Upto K5
		CO 4	explain pipelining concepts.	Upto K5
		CO 5	compare the different ways of communicating with I/O devices and standard I/Interfaces.	Upto K5
21MCAC14	Data Structures	CO 1	understand abstract data types such as arrays, structures, strings and polynomials.	Upto K5
		CO 2	understand the concepts regarding the dynamic memory allocation	Upto K5
		CO 3	implement various ADTs such as STACK, QUEUE, LIST and Tree.	Upto K5
		CO 4	implement various searching and sorting algorithms.	Upto K5
		CO 5	implement efficient linear and non-linear data structures.	Upto K5
21MCAC15	Relational Database Management System	CO 1	understand the modern data management issues, advantages of RDBMS over conventional file handling	Upto K5
		CO 2	analyze the concepts of data models and modeling notations, use of SQL, algebraic expressions/ operations on relational database.	Upto K5



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		CO 3	handle the RDB, extraction / evaluation of DB using SQL using tuple relations and calculus and understand the No SQL concepts.	Upto K5
		CO 4	exposed to entity-relation model, design of schema.	Upto K5
		CO 5	justify the need of normalization, normalize the RDB up to BCNF	Upto K5
21MCAP11	Data Structure Using C & C++ - Lab	CO 1	implement C and C++ programming aspects.	Upto K5
		CO 2	understand the importance of abstract data type, arrays and string as ADT.	Upto K5
		CO 3	understand the linked implementation, and its uses both in linear and non-linear data structure.	Upto K5
		CO 4	implement various data structure such as stacks, queues, trees, etc. to solve various computing problems.	Upto K5
		CO 5	implement various kinds of searching and sorting techniques and know when to choose which technique.	Upto K5
21MCAP12	Relational Database Management System Lab	CO 1	analyse the concepts of data models and modeling notations	Upto K5
		CO 2	use of SQL, algebraic expressions/ operations on relational database	Upto K5



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		CO 3	introduce the concepts of transactions and transaction processing	Upto K5
		CO 4	design the queries to handle all the basic and advanced operations on RDBMS	Upto K5
		CO 5	design of applications which handles the operations involved in RDBMS	Upto K5
21MCAP13	Professional Communication -Lab	CO 1	develop the ability to work as a team member as an integral activity in the workplace.	Upto K5
		CO 2	increase confidence in their ability to read, comprehend, organize, and retain written information. Improve reading fluency.	Upto K5
		CO 3	write coherent speech outlines that demonstrate their ability to use organizational formats with a specific purpose.	Upto K5
		CO 4	deliver effective speeches that are consistent with and appropriate for the audience and purpose.	Upto K5
		CO 5	develop proper listening skills; articulate and enunciate words and sentences clearly and efficiently.	Upto K5
21MCAC21	JAVA PROGRAMMING	CO 1	understand the concepts about creation of Class and objects.	Upto K5
		CO 2	develop Java Programs with exception	Upto K5



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			handling	
		CO 3	design and implement the concepts of Multithread and multitasking.	Upto K5
		CO 4	get an awareness about creation of Windows using Swing	Upto K5
		CO 5	understand the concept of JDBC, RMI and Servlets.	Upto K5
21MCAC22	ALGORITHM ANALYSIS	CO 1	analyze the time and space complexity of given Algorithms.	Upto K5
		CO 2	demonstrate algorithms like Variable Based Search, Branch and Bound.	Upto K5
		CO 3	identify appropriate sorting/searching technique for given problem.	Upto K5
		CO 4	apply the dynamic programming technique to solve the problems.	Upto K5
		CO 5	discuss Graph and its applications	Upto K5
21MCAC23	OPERATING SYSTEM	CO 1	understand of design issues associated with operating systems.	Upto K5
		CO 2	be aware of concepts of memory management including virtual memory.	Upto K5
		CO 3	be familiar with various types of operating systems including Linux and Mobile OS.	Upto K5



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21MCAC24	DATA COMMUNICATIONS AND NETWORKING	CO 1	understand the components of a data communications system	Upto K5
		CO 2	identify key considerations in selecting various transmission media in networks.	Upto K5
		CO 3	learn the role of digital communications devices in a data communications network.	Upto K5
		CO 4	describe the various types of signals and their features.	Upto K5
		CO 5	identify and define roles and features of various data transmission protocols.	Upto K5
21MCAC25	Research Methodology and IPR	CO 1	identify the suitable research methods and articulate the research steps in a proper sequence for the given problem.	Upto K5
		CO 2	carry out literature survey, define the problem statement and suggest suitable solution for the given problem and present in the format of the research paper (IEEE).	Upto K5
		CO 3	analyse the problem and conduct experimental design with the samplings.	Upto K5
		CO 4	perform the data collection from various sources segregate the primary and secondary data	Upto K5
		CO 5	apply some concepts/section of Copy Right Act /Patent Act /Cyber Law/Trademark to	Upto K5



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			the given case and develop –conclusions	
21MCAE21	CLOUD COMPUTING	CO 1	understand the architecture of Cloud Computing.	Upto K5
		CO 2	understand and use the service models and Deployment.	Upto K5
		CO 3	work on any real cloud service.	Upto K5
		CO 4	understand the service Management and Security of Cloud.	Upto K5
		CO 5	understand the Computing Paradigms and Cloud Computing.	Upto K5
21MCAE22	SOFT COMPUTING	CO 1	learn various soft computing framework.	Upto K5
		CO 2	familiarize with design of various neural networks.	Upto K5
		CO 3	explore to fuzzy logic.	Upto K5
		CO 4	learn genetic programming concepts.	Upto K5
		CO 5	explore hybrid systems of soft computing.	Upto K5
21MCAE23	FINANCIAL MANAGEMENT ACCOUNTING	CO 1	gain knowledge about Accounting and its golden rules for preparation of Final accounts.	Upto K5



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		CO 2	understand the stability of finance for a business when making investment decisions.	Upto K5
		CO 3	analyse the current status of business by applying some ratios	Upto K5
		CO 4	understand the concepts regarding BEP and its importance for any business.	Upto K5
		CO 5	preparation of budgeting for any business.	Upto K5
21MCAE24	OPTIMIZATION TECHNIQUES	CO 1	apply problem solving techniques through OR approaches.	Upto K5
		CO 2	formulate the problem using linear programming technique.	Upto K5
		CO 3	analyze the optimal solution for the given problem by applying Transportation problems.	Upto K5
		CO 4	analyze the strategies with different players through game theory approach.	Upto K5
		CO 5	analyze the sequence of jobs to be executed by machines for the given problem.	Upto K5
21MCAP21	JAVA PROGRAMMING – LAB	CO 1	understand the enabling technologies for building internet applications.	Upto K5
		CO 2	write Java programs for techniques and features of the networking and remote	Upto K5



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			method development to Construct an internet application.	
		CO 3	implement packages, access specifies and interfaces in program	Upto K5
		CO 4	implement Program for Events and interactivity using Layout Manager.	Upto K5
		CO 5	generate program for network chatting	Upto K5
21MCAP22	ALGORITHM ANALYSIS USING C++ LAB	CO 1	develop various linear data structures like List, Stack and Queue.	Upto K5
		CO 2	build the various Non-linear structures programming like Tree and Binary Tree.	Upto K5
		CO 3	implement real time problems using the graph data structure and apply Divide and Conquer Technique	Upto K5
		CO 4	apply the Greedy and Dynamic programming to graphical problems	Upto K5
		CO 5	use Back Tracking and Branch and Bound Technique to solve complex problems	Upto K5
21MCAP23	LINUX SHELL PROGRAMMING – LAB	CO 1	understand the knowledge about Linux commands is needed to solve complex	Upto K5



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Contact No.: 87542 09994

87542 08885

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			problems.	
		CO 2	gain the Knowledge of Linux commands help to design solutions.	Upto K5
		CO 3	acquire the knowledge of Linux commands helps to develop software skills.	Upto K5
		CO 4	use the knowledge of shell scripts and GUI helps to enrich the software skills.	Upto K5
21MCAC31	SOFTWARE ENGINEERING	CO 1	Understand about Software Engineering process.	Upto K5
		CO 2	Understand about Software project management skills, design and quality management.	Upto K5
		CO 3	Analyze Software Requirements and Specification.	Upto K5
		CO 4	Analyze Software Testing, Maintenance and Software Re-Engineering.	Upto K5
		CO 5	Design and conduct various types and levels of software quality for a software project.	Upto K5
21MCAC32	BIGDATA ANALYTICS	CO 1	Understand the characteristics and challenges of Big Data.	Upto K5
		CO 2	Determine Big Data Analytics.	Upto K5
		CO 3	Utilize Hadoop for Big Data Technologies.	Upto K5
		CO 4	Demonstrate MAP REDUCE Programming.	Upto K5



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		CO 5	Describe types of Recommendation Systems using Big Data Analytics.	Upto K5
21MCAC33	WEB PROGRAMMING	CO 1	Attain the knowledge about the Basic of HTML Tags.	Upto K5
		CO 2	Know and understand about web page creation.	Upto K5
		CO 3	Understand about the usage of Various Tags.	Upto K5
		CO 4	Gain the knowledge about scripting language.	Upto K5
		CO 5	Develop and design web-based application program.	Upto K5
21MCAE31	CYBER SECURITY	CO 1	Understand the physical and logical perimeters of information assets & security awareness.	Upto K5
		CO 2	Determine to protect computer systems & networks from current and future cyber security attacks.	Upto K5
		CO 3	Communicate effectively to address information security issues.	Upto K5
		CO 4	Examine the access controls, to monitor and managing the review process.	Upto K5
		CO 5	Study the cyber laws in different countries related to cyber security and the legal issues in cyber cases.	Upto K5
21MCAE32	ARTIFICIAL INTELLIGENCE	CO 1	Demonstrate AI problems and techniques.	Upto K5



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		CO 2	Understand machine learning concepts.	Upto K5
		CO 3	Apply basic principles of AI in solutions that require problem solving, inference, perception, knowledge representation, and learning.	Upto K5
		CO 4	Analyze the impact of machine learning on applications.	Upto K5
		CO 5	Analyze and design are AI-world problem for implementation and understand the dynamic behavior of a system.	Upto K5
21MCAE33	HUMAN RESOURCE MANAGEMENT	CO 1	Explain the HRM model and concepts.	Upto K5
		CO 2	Understand and describes about HR planning, job design and analysis.	Upto K5
		CO 3	Analyse and forecast the recruitment and selection process.	Upto K5
		CO 4	Examine the role of Trade unions.	Upto K5
		CO 5	Evaluate QWL and analyse e-activities.	Upto K5
21MCAE34	GRAPH THEORY	CO 1	Write precise & accurate mathematical definitions of graph theory.	Upto K5
		CO 2	Apply the principles and concepts of graph theory in practical situations.	Upto K5
		CO 3	Solve the problems using the concepts of Graphs and trees.	Upto K5



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		CO 4	Validate and critically assess a mathematical proof.	Upto K5
		CO 5	Explore the modern applications of graph theory.	Upto K5
21MCAP31	DATA ANALYTICS USING PYTHON & R – LAB	CO 1	Create programs using the basic concepts such as data types, Control Statements in Python.	Upto K5
		CO 2	Create programs using the concepts such as Arrays, Strings, and Functions in Python.	Upto K5
		CO 3	Create programs using the concepts such as Classes and Objects, Inheritance and Exception.	Upto K5
		CO 4	Understand and use R – Data types, Data structures.	Upto K5
		CO 5	Develop programming logic using R Packages and analyse data sets using R programming capabilities.	Upto K5
21MCAP32	WEB PROGRAMMING – LAB	CO 1	Create web pages using basic HTML5 tags.	Upto K5
		CO 2	Design web pages using scripting languages	Upto K5
		CO 3	Use PHP built-in functions and custom functions for processing.	Upto K5
		CO 4	Develop various interactive and dynamic websites.	Upto K5



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		CO 5	Customize with validation process in your web site.	Upto K5
21MCAP33	ANGULAR JS – LAB	CO 1	Create a basic sample application in Angular JS.	Upto K5
		CO 2	Develop an application using concepts such as models and controllers in Angular JS.	Upto K5
		CO 3	Develop an application using built-in and custom directives.	Upto K5
		CO 4	Develop a web application using Routing in Angular JS.	Upto K5
		CO 5	Develop single page applications using AJAX with angularjs.	Upto K5
21MCAN31	MANAGEMENT INFORMATION SYSTEM	CO 1	Attain the knowledge about the Information System.	Upto K5
		CO 2	Know about update of Computers and its components.	Upto K5
		CO 3	Understand about the Telecommunication channels.	Upto K5
		CO 4	Gain knowledge about E-commerce.	Upto K5
		CO 5	Learn about concept of database and its types.	Upto K5
21MCACV1	MINI PROJECT	CO 1	Have hands of experience on innovation, record keeping, documentation etc. And promote them as entrepreneur.	K3 to K5



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		CO 2	Learn to develop solution and apply the technologies learnt during the course in the real-time projects.	K3 to K5
		CO 3	Learn how to plan various work in the project development environments involving deadlines and teamwork.	K3 to K5
		CO 4	Get a chance for preparing for main project.	K3 to K5
		CO 5	Prepare technical report based on the project and deliver seminar on their work.	K3 to K5
21MCAC41	INTERNET OF THINGS	CO 1	Define Internet of Things & its characteristics and iot enabling technologies.	Upto K5
		CO 2	Describe the differences and similarities between iot & M2M and managing iot systems.	Upto K5
		CO 3	Understand iot Platform design methodology and developing iot System using Python.	Upto K5
		CO 4	Identify the various iot physical components, server and cloud.	Upto K5
		CO 5	Demonstrate Data Analytics for iot.	Upto K5
21MCAE41	STATISTICS FOR DATA SCIENCE	CO 1	Become familiar with the basic terminology and special notation of statistical analysis.	Upto K5
		CO 2	Learn how statistical techniques fit into the general process of science	Upto K5



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		CO 3	Learn the notation, particularly summation notation	Upto K5
		CO 4	Understand the concept of a frequency distribution	Upto K5
		CO 5	Organize data into a regular or a grouped frequency distribution table, and understand data that are presented in a table.	Upto K5
21MCAE42	MACHINE LEARNING	CO 1	Become familiar with Machine Learning concepts, classifications of Machine Learning.	Upto K5
		CO 2	Describe Supervised Learning concepts.	Upto K5
		CO 3	Define Statistical Learning concepts.	Upto K5
		CO 4	Explain Support Vector Machine concepts.	Upto K5
		CO 5	Discuss simple Machine Learning applications in a range of real-world applications.	Upto K5
21MCAE43	DIGITAL IMAGE PROCESSING	CO 1	Understand the basics of digital image processing	Upto K5
		CO 2	Observe image intensity transformation and spatial filtering	Upto K5
		CO 3	Examine how to filter noise and restoration and reconstruction of images.	Upto K5
		CO 4	Analyze color image processing.	Upto K5
		CO 5	Distinguish between various compression	Upto K5



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			techniques.	
21MCAE44	DIGITAL MARKETING	CO 1	Explain the concept of digital marketing and Business Models.	Upto K5
		CO 2	Observe Market sensing and role of social media in digital brand communications	Upto K5
		CO 3	Discuss the various digital advertising tools like e-mail and online games.	Upto K5
		CO 4	Develop effective website and apps.	Upto K5
		CO 5	Recognize social media metrics in Digital Analytics. Planning & Organization of Digital Marketing.	Upto K5
21MCACV2	PROJECT	CO 1	Have hands of experience in analysis of real time case.	K3 to K5
		CO 2	Learn to discover potential research areas in the field of Cyberspace.	K3 to K5
		CO 3	Learn to conduct a survey of several available literature in the preferred field of study.	K3 to K5
		CO 4	Learn to compare and contrast the several existing solutions for research challenges.	K3 to K5
		CO 5	Demonstrate an ability to work in teams and manage the conduct of the research study and to get deep knowledge in the known/needed technologies.	K3 to K5
M.Com. COMPUTER APPLICATIONS				



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21PCCC11	ADVANCED FINANCIAL MANAGEMENT	CO 1	gain the theoretical framework of financial management in business corporations	K1, K2
		CO 2	understand various sources of financing and financial planning	K1, K2
		CO 3	identify the management assets of the company	K1, K2
		CO 4	understand leverages	K1, K2
		CO 5	use the capital structure and dividend theories	K1, K2, K3
21PCCC12	APPLIED COSTING	CO 1	familiarize with the various cost concepts, and elements of cost	K1
		CO 2	understand the preparation of wage payment and incentive system under labour and overhead	K1, K2
		CO 3	acquire the knowledge of application of process costing	K1
		CO 4	get acquaintance with the application of Marginal costing for Business decision making	K1, K2, K3
		CO 5	gain knowledge of cost control and reduction	K1, K2
21PCCC13	COMPUTER NETWORKS	CO 1	introduction and Network Models	K1, K2, K3
		CO 2	identify the Data and Signals	K1, K2
		CO 3	understand the Digital and Analog Transmission	K1, K2, K3



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		CO 4	gain knowledge on Multiplexing, Error Detention, and Data Link Control	K1, K2, K3
		CO 5	acquire knowledge on Media Access Control and Ethernet	K1, K2, K3
21PCCC14	INTERNATIONAL BUSINESS	CO 1	gain knowledge of international business	K1
		CO 2	acquire the knowledge of international trading environment	K1, K2
		CO 3	understand the multinational enterprises	K1, K2
		CO 4	use the description of various aspects of international financial management	K1, K2, K3
		CO 5	gain the knowledge of recent developments in international business	K1, K2, K3
21PCCE11	FUNDAMENTALS OF INFORMATION TECHNOLOGY	CO 1	know the basics present trend in Human Resource Management	K1, K2
		CO 2	furnish the various job related aspects	K1, K2
		CO 3	know various aspects of Human development related issues	K1, K2
		CO 4	evaluate the quality aspects of human resources	K1, K2
		CO 5	adopt the safety aspects of Human Resources.	K1, K2
21PCCS11	BANKING TECHNOLOGY	CO 1	understand the basic concepts of banking	K1, K2



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		CO 2	familiarize with the functioning of the commercial banks and the RBI	K1, K2
		CO 3	understand the e-banking and the modalities of bank accounts	K1, K2, K3
		CO 4	learn the functions of SBI and cooperative banks	K1, K2
		CO 5	describe the KYC norms while opening new bank account	K1, K2, K3
21PCCC21	ACCOUNTING FOR MANAGERS	CO 1	understand the applicability of financial statements for decision making	K1, K2, K3
		CO 2	use the knowledge in preparation, analysis and interpretation of financial statements	K1, K2
		CO 3	prepare cash flow and funds flow statements	K1, K2, K3
		CO 4	gain mastery over the preparation of variance analysis	K1, K2
		CO 5	have a good understanding of preparation of various budgets	K1, K2
21PCCC22	FINANCIAL MARKETS AND INSTITUTIONS	CO 1	understand the basic concepts of financial markets	K1, K2
		CO 2	gain the knowledge on the working of commercial paper market	K1
		CO 3	know the concept of capital market	K1
		CO 4	know the working of various credit rating agencies such as CRISIL, etc	K1, K2



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		CO 5	understand the functioning of various financial institutions such as NABARD, EXIM bank, etc	K1, K2
21PCCC23	ENTERPRISE RESOURCE PLANNING (ERP)	CO 1	know the evaluation of ERP, systems, technology and the background of ERP	K1, K2
		CO 2	understand the various aspects of business processes	K1, K2
		CO 3	gain knowledge about BPR	K1, K2
		CO 4	acquire the knowledge of ERP system implementation	K1, K2
		CO 5	remember about SCM and CRM	K1, K2
21PCCC24	WEB TECHNOLOGY AND INTERNET	CO 1	develop a dynamic webpage by the use of java script and DHTML	K1, K2
		CO 2	identify a well formed / valid XML document.	K1, K2
		CO 3	acquire the knowledge on connect a java program to a DBMS and perform insert, update and delete operations on DBMS table.	K1, K2
		CO 4	apply the server side java application called Servlet to catch form data sent from client, process it and store it on database	K1, K2
		CO 5	write a server side java application called JSP to catch form data sent from client and store it on database.	K1, K2



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21PCCE21	CLIENT SERVER COMPUTING	CO 1	ability to incorporate standard practices and technological advancements in software development life cycle solutions and IOT	K1, K2
		CO 2	expertise in providing optimized algorithmic	K1, K2
		CO 3	expertise in recent technologies like SMAC(Social , Mobile, Analytics, Cloud), Machine Learning	K1, K2
		CO 4	demonstrate skills in ideation, innovation and commercialization of IT products and services	K1, K2
21PCCC31	ADVANCED COMPANY ACCOUNTS – I	CO 1	explain the International and Indian accounting standards with its procedure and formulation	Upto K5
		CO 2	construct the financial statements of companies within the framework of Indian Accounting Standards	Upto K5
		CO 3	follow various methods of valuation of goodwill and shares	Upto K5
		CO 4	analyze and prepare the financial statements in case of liquidation of company	Upto K5
		CO 5	compute the various methods of inflation accounting to the changing business conditions	Upto K5
21PCCC32	COMPUTERISED ACCOUNTING AND OFFICE	CO 1	understand the objectives and basic computer process	Upto K5



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	AUTOMATION			
		CO 2	acquire the knowledge of the process of computer	Upto K5
		CO 3	receive knowledge on MS word	Upto K5
		CO 4	Understand Features of Tally and Various types Voucher entry	Upto K5
		CO 5	know about tally and gain computer knowledge	Upto K5
21PCCC33	BUSINESS RESEARCH METHODS	CO 1	apply a range of quantitative and / or qualitative research techniques to social science research	Upto K5
		CO 2	develop necessary critical thinking skills in order to evaluate different methods used in data collection	Upto K5
		CO 3	organize and conduct research in a more appropriate sampling method manner	Upto K5
		CO 4	demonstrate knowledge and understanding of data processing	Upto K5
		CO 5	write a research report and thesis	Upto K5
21PCCE31	INTERNET AND E-COMMERCE	CO 1	understand the basic concept of E-commerce and its applications	Upto K5
		CO 2	gain knowledge on EDI	Upto K5
		CO 3	analyse e-security and the web	Upto K5



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		CO 4	gain knowledge on e–marketing and its application	Upto K5
		CO 5	apply various digital payment methods	Upto K5
21PCCE32	MOBILE COMPUTING	CO 1	identify Mobility of Bits and Bytes	Upto K5
		CO 2	identify and know the methods in the Evolution of Telephony	Upto K5
		CO 3	get a thorough knowledge on GPRS.	Upto K5
		CO 4	understand Wireless Application Protocol	Upto K5
		CO 5	know about Wireless LAN	Upto K5
21PCCE33	WEB DESIGNING WITH PHP	CO 1	understand HTML tags	Upto K5
		CO 2	identify and understand basics of PHP	Upto K5
		CO 3	understand looping, its functions and multiple arguments.	Upto K5
		CO 4	understand PHP server variables	Upto K5
		CO 5	work on FORMS elements	Upto K5
21PCCS31	ELEMENTS OF FINANCIAL SERVICES	CO 1	gain and understand the concepts of financial service market and environment	Upto K5
		CO 2	know about the basic concepts in leasing and factoring	Upto K5
		CO 3	acquire knowledge of public issue management and higher purchase concepts	Upto K5



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		CO 4	learn the working mechanism of stock exchanges	Upto K5
		CO 5	acquaint knowledge about various credit rating techniques	Upto K5
21PCCN31	TOURISM DEVELOPMENT	CO 1	gain in–depth knowledge on the concepts of tourism	Upto K5
		CO 2	learn the development in India and land for all seasons.	Upto K5
		CO 3	understand the tourist Marketing and tourist products	Upto K5
		CO 4	know the sales support, advertising and public relation	Upto K5
		CO 5	gain knowledge on international union of official travel organisation	Upto K5
21PCCC41	ADVANCED COMPANY ACCOUNTS – II	CO 1	have the practical implication in the preparation of holding company accounts	Upto K5
		CO 2	analyze and prepare the financial statements of bank accounts	Upto K5
		CO 3	construct the financial statements of Insurance company accounts with the modified format	Upto K5
		CO 4	familiarize the procedure involved in the preparation double account system	Upto K5
		CO 5	gain knowledge about human resource accounting and social responsibility accounting	Upto K5



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21PCCC42	BUSINESS ENVIORNMENT AND POLICY	CO 1	exhibit the elementary knowledge of business and social responsibility	Upto K5
		CO 2	understand the external and internal influences of business environment.	Upto K5
		CO 3	acquire the knowledge of industrial policy and new industrial policy	Upto K5
		CO 4	gain knowledge about consumer protection act, and have knowledge in privatization.	Upto K5
		CO 5	acquire knowledge about industrial sickness	Upto K5
21PCCC43	LOGISTICS AND SUPPLY CHAIN MANAGEMENT	CO 1	gain the functions and importance of logistics management.	Upto K5
		CO 2	provide the customer service and various approaches to study channels.	Upto K5
		CO 3	understand effective transportation system, and cost characteristics by mode.	Upto K5
		CO 4	acquire the knowledge of logistics into an integrated process.	Upto K5
		CO 5	understand the concepts related to pricing obstacles to coordination in a supply chain, goals and incentives	Upto K5
21PCCP41	COMPUTER ORIENTED PROJECT	CO 1	gain basic knowledge of project developing	Upto K5
		CO 2	understand public issue management.	Upto K5
		CO 3	acquire the knowledge on post issue activities .	Upto K5



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		CO 4	gain knowledge of underwriting of securities.	Upto K5
		CO 5	understand the consumer add to computer application and hire purchase system	Upto K5
21PCCEP1	TALLY AND OFFICE AUTOMATION – LAB	CO 1	list out the Working method of Tally	Upto K5
		CO 2	create mathematical question paper	Upto K5
		CO 3	create flowcharts	Upto K5
		CO 4	do Journal entries & Ledger creation/modification	Upto K5
		CO 5	prepare Group in as Organization requirement	Upto K5
21PCCEP2	OBJECT ORIENTED PROGRAMMING USING C++ – LAB	CO 1	understand the basic concept of CODING.	Upto K5
		CO 2	gain knowledge on Computer sector	Upto K5
		CO 3	analyse methods of Computer coding	Upto K5
		CO 4	gain knowledge on its application	Upto K5
		CO 5	apply various methods of Coding	Upto K5
21PCCEP3	PROGRAMMING IN C –LAB	CO 1	use the fundamentals of C programming in trivial problem solving	Upto K5
		CO 2	enhance skill on problem solving by constructing algorithms	Upto K5



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Contact No.: 87542 09994

87542 08885

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		CO 3	identify solution to a problem and apply control structures and user defined functions for solving the problem	Upto K5
		CO 4	demonstrate the use of Strings and string handling functions	Upto K5
		CO 5	apply skill of identifying appropriate programming	Upto K5
21PCCS41	INTRODUCTION TO INTERNET	CO 1	gain knowledge of discuss elementary Internet concepts and history	Upto K5
		CO 2	understand the types of Computer applications	Upto K5
		CO 3	understand the nature of present-day Application development.	Upto K5
		CO 4	understand the dynamics Patens and coding.	Upto K5
		CO 5	use File Transfer Protocol (ftp) to perform file downloading and uploading	Upto K5
M.Sc. MICROBIOLOGY				
23PMBC11	GENERAL MICROBIOLOGY AND MICROBIAL DIVERSITY	CO 1	examine various microbes employing the microscopic techniques learnt. Measure and compare the size of microbes.	Upto K6
		CO 2	create aseptic conditions by following good laboratory practices.	Upto K6
		CO 3	identify and cultivate the algae understanding their habitat. Analyze	Upto K6



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			the morphology, classify and propagate depending on its economic importance.	
		CO 4	differentiate and appreciate the anatomy of various microbes. Plan the growth of microbes for different environmental conditions.	Upto K6
		CO 5	categorize and cultivate a variety of extremophiles following standard protocols for industrial applications.	Upto K6
23PMBC12	MICROBIAL PHYSIOLOGY	CO 1	apply knowledge about nutritional requirement, modes of nutrient transport in microorganisms to various disciplines of Microbiology.	Upto K6
		CO 2	analyse microbial growth, factors influencing growth and its measurement techniques for applications in various industries.	Upto K6
		CO 3	compare various metabolic pathways and discuss the properties and functions of enzymes.	Upto K6
		CO 4	apply anaerobic respiration and biosynthetic pathways to enhance/control microbial growth.	Upto K6
		CO 5	assimilate methods involved in microbial photosynthesis and bioluminescence.	Upto K6
23PMBCP1	PRACTICAL I – GENERAL MICROBIOLOGY, MICROBIAL	CO 1	apply microscopic techniques and staining methods in the identification	Upto K6



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	DIVERSITY AND MICROBIAL PHYSIOLOGY		and differentiation of microbes.	
		CO 2	apply the knowledge on the sterilization of glass wares and media by different methods and measurement of cell growth.	Upto K6
		CO3	prepare media for bacterial growth. Analyze microbial enzymes.	Upto K6
		CO4	pertain plating techniques and methods involved in microbial preservation.	Upto K6
		CO5	analyze microbial growth, optimal growth parameters, cultivate bacteria, and perform antibiotic sensitivity.	Upto K6
23PMBE11	FORENSIC SCIENCE	CO 1	identify the scope and need of forensic science in the present scenario.	Upto K6
		CO 2	plan for the organizational setup and functioning of forensic science laboratories.	Upto K6
		CO 3	analyze the biological samples found at the crime scene.	Upto K6
		CO 4	perform extraction and identification of DNA obtained from body fluids.	Upto K6
		CO 5	discuss the concept of forensic toxicology.	Upto K6
23PMBE12	NANOBIOTECHNOLOGY	CO 1	employ knowledge in the field of nanobiotechnology for development.	Upto K6



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		CO 2	identify various applications of nanomaterials in the field of medicine and environment.	Upto K6
		CO 3	examine the prospects and significance of nanobiotechnology.	Upto K6
		CO 4	identify recent advances in this area and create a career or pursue research in the field.	Upto K6
		CO 5	design non-toxic nanoparticles for targeted drug delivery.	Upto K6
23PMBE13	MICROALGAL TECHNOLOGY	CO 1	acquire knowledge in the field of microalgal technology and their characteristics.	Upto K6
		CO 2	identify the methods of algal cultivation and harvesting.	Upto K6
		CO 3	recognize and recommend the use of microalgae as food, feed and fodder.	Upto K6
		CO 4	promote microalgae in phycoremediation.	Upto K6
		CO 5	compare and critically evaluate recent applied research in these microalgal applications.	Upto K6
23PMBE14	BIOINSTRUMENTATION	CO 1	make use of the laboratory instruments–laminar air flow, pH meter, centrifugation methods, biosafety cabinets following SOP.	Upto K6



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		CO 2	apply chromatography techniques in the separation of biomolecules.	Upto K6
		CO 3	perform molecular techniques like mutagenesis and their detection.	Upto K6
		CO 4	estimate molecules in biological samples by adopting UV spectroscopic techniques.	Upto K6
		CO 5	cultivate organisms anaerobically.	Upto K6
23PMBE15	HERBAL TECHNOLOGY AND COSMETIC MICROBIOLOGY	CO 1	identify the applications of Indian medicinal plants in treating diseases.	Upto K6
		CO 2	identify and authenticate herbal plants.	Upto K6
		CO 3	evaluate the antimicrobial activity of medicinal plants.	Upto K6
		CO 4	describe the role of microorganisms and their metabolites in the preparation of cosmetics.	Upto K6
		CO 5	validate procedures and biosafety measures in the mass production of cosmetics.	Upto K6
23PMBE16	ESSENTIALS OF LABORATORY MANAGEMENT AND BIOSAFETY	CO 1	employ skills on laboratory safety and avoid laboratory accidents.	Upto K6
		CO 2	prevent laboratory hazards by practicing safety strategies.	Upto K6
		CO 3	practice various first aid procedures during common laboratory accidents.	Upto K6



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		CO 4	ensure biosafety strategies in laboratory.	Upto K6
		CO 5	recognize the importance of biosafety guidelines.	Upto K6
23PMBS11	ENTREPRENEURSHIP IN BIOBUSINESS	CO 1	describe and apply several entrepreneurial ideas and business theories in practical framework.	Upto K6
		CO 2	analyse the business environment in order to identify business opportunities, identify the elements of success of entrepreneurial ventures, evaluate the effectiveness of different entrepreneurial strategies and interpret their own business plan.	Upto K6
		CO 3	express the mass production of microbial inoculants used as Biofertilizers and Bioinsecticides in response with field application and crop response.	Upto K6
		CO 4	analyze the application and commercial production of Monoclonal antibodies, Cytokines. TPH and teaching kits.	Upto K6
		CO 5	integrate and apply knowledge of the regulation of biotechnology industries, utilize effective team work skills within an effective management team with a common objective, and gain effective team work skills,	Upto K6



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			with an awareness of cultural diversity and social inclusiveness.	
23PMBC21	MEDICAL BACTERIOLOGY AND MYCOLOGY	CO 1	collect, transport and process of various kinds of clinical specimens.	Upto K6
		CO 2	analyze various bacteria based on morphology and pathogenesis.	Upto K6
		CO 3	discuss various treatment methods for bacterial disease.	Upto K6
		CO 4	employ various methods detect fungi in clinical samples and apply knowledge on antifungal agents.	Upto K6
		CO 5	apply various immunodiagnostic method to detect fungal infections.	Upto K6
23PMBC22	MEDICAL VIROLOGY AND PARASITOLOGY	CO 1	cultivate viruses by different methods and aid in diagnosis. Perform purification and viral assay.	Upto K6
		CO 2	investigate the symptoms of viral infections and presumptively identify the viral disease.	Upto K6
		CO 3	diagnose various viral diseases by different methods.(serological, conventional and molecular)	Upto K6
		CO 4	educate public about the spread, control and prevention of parasitic diseases.	Upto K6



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		CO 5	identify the protozoans and helminthes present in stool and blood specimens. Perform serological and molecular diagnosis of parasitic infections.	Upto K6
23PMBCP2	PRACTICAL II – MEDICAL MICROBIOLOGY	CO 1	understand collection of different clinical samples, transport, culture and examination.	Upto K6
		CO 2	identify medically important fungus from the clinical samples.	Upto K6
		CO 3	perform and Interpret serological tests for viral diseases.	Upto K6
		CO 4	exam and identify ova and cyst in samples.	Upto K6
		CO 5	understand collection and identification of arthropod vectors.	Upto K6
23PMBE21	EPIDEMIOLOGY	CO 1	apply the knowledge acquired on concepts of epidemiology to clinical and public health environment.	Upto K6
		CO 2	plan various strategies to trace the epidemiology.	Upto K6
		CO 3	plan the control of communicable and non-communicable diseases.	Upto K6
		CO 4	analyze the implications of drug resistance in the society and design the control of antimicrobial resistance and its management.	Upto K6



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		CO 5	employ National control programs related to Communicable and Non-Communicable diseases with the public.	Upto K6
23PMBE22	CLINICAL AND DIAGNOSTIC MICROBIOLOGY	CO 1	apply Laboratory safety procedures and hospital waste disposal strategies.	Upto K6
		CO 2	collect various clinical specimens, handle, preserve and process safely.	Upto K6
		CO 3	identify the causative agents of diseases by conventional and molecular methods following standard protocols.	Upto K6
		CO 4	assess the antimicrobial susceptibility pattern of pathogens.	Upto K6
		CO 5	trace the sources of nosocomial infection and recommend control measures.	Upto K6
23PMBE23	BIOREMEDIATION	CO 1	differentiate Ex-situ bioremediation and In-situ bioremediation. Assess the roles of organisms in bioremediation.	Upto K6
		CO 2	distinguish microbial processes necessary for the design and optimization of biological processing unit operations.	Upto K6
		CO 3	identify, formulate and design engineered solutions to environmental problems.	Upto K6
		CO 4	explore microbes in degradation of toxic wastes and playing role on biological mechanisms.	Upto K6



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		CO 5	establish the mechanisms of Arbuscular mycorrhizal fungi and Plant growth promoting <i>Rhizobacteria</i> in phytoremediation.	Upto K6
23PMBE24	BIOINFORMATICS	CO 1	access to databases that provides information on nucleic acids and proteins.	Upto K6
		CO 2	invent algorithms for sequence alignment.	Upto K6
		CO 3	construct phylogenetic tree.	Upto K6
		CO 4	predict the structure of proteins.	Upto K6
		CO 5	design drugs by predicting drug ligand interactions and molecular docking.	Upto K6
23PMBE25	BIOSAFETY, BIOETHICS AND IPR	CO 1	execute the role of IPR, Patent, Trademarks and its importance.	Upto K6
		CO 2	develop patent procedure, patent filing and its mapping.	Upto K6
		CO 3	become Patent attorneys and Patent officers.	Upto K6
		CO 4	apply bioethics in GMO, food crops and its biodiversity.	Upto K6
		CO 5	analyse the importance of bioethics in research associated with HGP, clinical research, stem cell therapy.	Upto K6



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23PMBE26	CLINICAL RESEARCH AND CLINICAL TRIALS	CO 1	apprehend the Drug Development process and different phases of clinical trials.	Upto K6
		CO 2	recognize the ethics and regulatory perspectives on clinical research trials activities.	Upto K6
		CO 3	accentuate about clinical trials management concepts and documentation process.	Upto K6
		CO 4	accomplish quality assurance and quality control to ensure the protection of human subjects and the reliability of clinical trial results.	Upto K6
		CO 5	nurture skills recitation to commercial start up and industriousness.	Upto K6
23PMBS21	VERMITECHNOLOGY	CO 1	compare and contrast the uses of vermicom post to the soil.	Upto K6
		CO 2	recommend different species of earthworms after acquiring knowledge on its biology.	Upto K6
		CO 3	design the vermicomposting process.	Upto K6
		CO 4	assess the Best Practices of Vermicomposting	Upto K6
		CO 5	recommend the applications of vermicom post to different soils and for different crops.	Upto K6

K1- KNOWLEDGE (REMEMBERING), K2-UNDERSTANDING, K3-APPLY,K4 – ANALYSE, K5 – EVALUATE, K6 – CREATE