

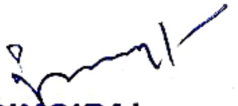


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PROGRAM OUTCOMES OF B.A. ECONOMICS

	Programme	Objective of Program/ Outcome expected (Minimum 4 outcomes)
B.A.	ECONOMICS	<p>To provide knowledge regarding the formulation of broad economic policies that maximize the level of national income, providing economic growth to achieve sustainability, maximum employment, price stability, external balance, increasing productivity in the long run</p> <p>To impart an understanding of monetary economics by describing the basics of monetary economics like money, value of money, theories of money, banking and international financial institutions, etc.</p> <p>To enable the students to understand the pattern and nature of international trade and their contribution to economic development</p> <p>To enable the students to understand the pattern and nature of international trade and their contribution to economic development</p>




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PROGRAM OUTCOMES OF B.A. ENGLISH

	Programme	Objective of Program/ Outcome expected (Minimum 4 outcomes)
B.A.	ENGLISH	To help the students acquire an in-depth knowledge of English language and English literature
		To help the students to analyze and comprehend the various forms of the literature like prose, poetry, fiction, drama etc.
		To make the students learn to write essays, reports, reviews, poetry, formal and informal letters, research papers etc.
		To encourage the students to learn the language and apply it in professional fields like mass communication, hospitality, advertising, teaching, civil services, human resources, creative writing, editing and publishing, etc.




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PROGRAM OUTCOMES OF B.A. HINDI

	Programme	Objective of Program/ Outcome expected (Minimum 4 outcomes)
B.A.	HINDI	To aware the students about the origin and roots of the subject Hindi language and Hindi literature
		To equip the students with deep knowledge of Hindi grammar and poetry and helping them develop creative writing skills
		To make students familiar with the language and improve their translation skills from Hindi to English and vice versa
		To develop the reading, writing, speaking and listening skills of students and developing a critical attitude about literary works in their minds



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PROGRAM OUTCOMES OF B.A. MARATHI

	Programme	Objective of Program/ Outcome expected (Minimum 4 outcomes)
B.A.	MARATHI	To aware the students about the origin and roots of the subject Marathi language and Marathi literature
		To develop the reading, writing and communication skills of the students
		To develop a critical attitude amongst students for different literary forms of the language
		To encourage the students to write Marathi articles, essays, reviews and compose poetry




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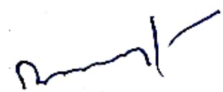


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PROGRAM OUTCOMES OF B.COM.

	Programme	Objective of Program/ Outcome expected (Minimum 4 outcomes)
B.COM		To equip the students with thorough knowledge of finance and commerce
		To inculcate deep understanding of accounting issues related to business
		To enable students to understand, interpret and analyze financial statements of business organizations
		To enable the students to develop ideas for new startup business plans




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PROGRAM OUTCOMES OF B.Sc. PHYSICS

	Programme	Objective of Program/ Outcome expected (Minimum 4 outcomes)
B.Sc.	PHYSICS	To educate the students about Newton's laws and understand their applications
		To educate the students about quantum theory and quantum mechanics
		To provide an insight into the structure of crystals and understand their properties through solid state crystallography
		To expose the students to the role of physics in inter-disciplinary areas and inculcate a knack to take up research in the field of Physics




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PROGRAM OUTCOMES OF B.Sc. CHEMISTRY

	Programme	Objective of Program/ Outcome expected (Minimum 4 outcomes)
B.Sc.	CHEMISTRY	To educate the students about the periodic classification of elements in the 'Periodic table' and their properties for chemical bonding
		To educate the students about basic organic chemistry of aliphatic and aromatic, saturated and unsaturated hydrocarbons and their various reactions.
		To provide an insight about the 3-Dimensional structures of molecules under stereochemistry and advanced knowledge about the mechanism of their reactions
		To expose the students to the different global environmental issues and inculcate a radical analysis of their solutions under green chemistry
		To provide laboratory experience to the students by performing volumetric analysis, gravimetric analysis, inorganic salt analysis and experiments based on characterization, synthesis and purification of organic compounds



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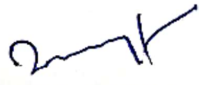


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PROGRAM OUTCOMES OF B.Sc. MATHS

	Programme	Objective of Program/ Outcome expected (Minimum 4 outcomes)
B.Sc.	MATHS	To teach the students about the fundamental concepts of real numbers
		To enable the students to understand the concept of sequence, limit, continuity, differentiability, Riemann Integration in detail
		To teach the students to find eigen values and eigen vectors of a square matrix using the characteristic polynomial
		To teach the students the use of mathematics in computer systems and their applications




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PROGRAM OUTCOMES OF B.Sc. C.S.

	Programme	Objective of Program/ Outcome expected (Minimum 4 outcomes)
B.Sc.	C.S.	To equip the students with the knowledge of programming, project management, information security, internet applications, systems analysis etc.
		To enable the students to understand database concepts and database management systems
		To enable the students to analyze and develop a real database system
		To enable students to develop applications using PL/SQL and front end tools



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PROGRAM OUTCOMES OF B.Sc. I.T.

	Programme	Objective of Program/ Outcome expected (Minimum 4 outcomes)
B.Sc.	I.T.	To think analytically, creatively and critically in developing robust, extensible and highly maintainable technological solutions to simple and complex problems
		To apply their knowledge and skills to be employed and excel in IT professional careers and/or to continue their education in IT and/or related post graduate programmes
		To be capable of managing complex IT projects with consideration of the human, financial and environmental factors
		To communicate effectively with a range of audiences both technical and non-technical



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PROGRAM OUTCOMES OF M.Sc. C.S.

	Programme	Objective of Program/ Outcome expected (Minimum 4 outcomes)
M.Sc.	C.S.	To enable the students to design and develop computer programs using knowledge of algorithms, networking, cloud computing, artificial intelligence, web designing, mobile applications, etc.
		To provide the students with a deep insight about the role of virtualization technologies
		To enable the students to creatively think and use the ideas of AI research and programming language in various technological fields
		To teach the students to implement the concepts of Operating Systems and Database Administration Skills



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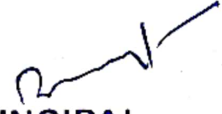


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PROGRAM OUTCOMES OF M.Sc. I.T.

	Programme	Objective of Program/ Outcome expected (Minimum 4 outcomes)
M.Sc.	I.T.	To provide students with a focused elaborate training in information technology concepts and tools as well as exposing them to the advanced fields
		To provide hands on experience to the students in the frontier areas of information technology
		To provide best leverage to students to enable them move into advanced and frontier areas of interdisciplinary research in the future




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PROGRAM OUTCOMES OF B.M.S.

Programme	Objective of Program/ Outcome expected (Minimum 4 outcomes)
B.M.S.	To create for the students of university of Mumbai an additional avenue of self-employment and also to benefit industry by providing them with suitable trained persons
	To prepare student to exploit opportunities being newly created in the management profession
	To give an adequate exposure to operational environment in the field of management
	To inculcate training in the use of modern technology for the benefit of all parties concerned



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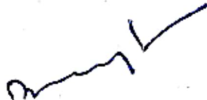


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PROGRAM OUTCOMES OF B.B.I.

Programme	Objective of Program/ Outcome expected (Minimum 4 outcomes)
B.B.I.	To provide the student, a greater in-depth knowledge of different aspects of Banking and Insurance and other financial services and a thorough understanding of the practical application of the theory
	To inculcate training and practical approach among the students by using modern technologies
	To give an adequate exposure to operational environment in the field of banking, insurance and other related financial services




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PROGRAM OUTCOMES OF M.A. ECONOMICS

	Programme	Objective of Program/ Outcome expected (Minimum 4 outcomes)
M.A.	ECONOMICS	To prepare students to develop critical thinking to carry out investigation about various socio-economic issues objectively while bridging the gap between theory and practice
		To equip the students with skills to analyze problems, formulate an hypothesis, evaluate and validate results and draw reasonable conclusions thereof
		To prepare students to develop their own opinion regarding current national and international policies and issues



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PROGRAM OUTCOMES OF B.Sc. BOTANY

	Programme	Objective of Program/ Outcome expected (Minimum 4 outcomes)
B.Sc.	BOTANY	To recognize and identify major groups of non-vascular and vascular plants and their phylogenetic relationships
		To explore the morphological, anatomical, embryological details as well as economic importance of algae, fungi, bryophytes, pteridophytes, gymnosperms and angiosperms
		To provide knowledge about environmental factors and natural resources and their importance in sustainable development
		To be able to carry out phytochemical analysis of plant extracts and application of the isolated compounds for treatment of diseases
		To explain how current medicinal practices are often based on indigenous plant knowledge and to get introduced to different perspectives on treating ailments according to ethnomedicinal principles



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COURSE OUTCOMES OF B.A. ENGLISH

Semester I/II/III/IV/V/VI	All Subjects / Course	Objective of teaching the subject / Outcome expected (Minimum 4 outcomes)
Semester I & II	Communication Skills in English	1. The learners will learn to understand and interpret any text they are reading from different perspectives
		2. The interest of learners in listening to and watching good quality audio and visual media will be aroused.
		3. Learners will acquire proficiency in the skills of listening, speaking, reading and writing that will help them meet the challenges of the world.
		4. The learners will develop good oral and written skills of communication in the English language.
Semester I & II	English Optional Introduction to Prose and Fiction	1. To develop passion for reading literary works amongst students
		2. To make learners at ease in the process of appreciation of literature
		3. To enable learners to understand and analyze selected stories, prose, fiction and non-fiction masterpieces
		4. To imbibe the underlying philosophy and values reflected in literature
		5. To develop sensitivity to nature and understand the relationship between human beings and environment
	English Optional II -- Indian Literature in English	Not mentioned in syllabus
	English Optional III -- American Literature	Not mentioned in syllabus
	English IV -- 16th to 18th Century English Literature	After completion of the course, students are expected to be able to: 1) To understand the distinctive features of English literature of the 16th, 17th and 18th centuries 2) To comprehend how background influences shaped the writer's thinking. 3) To recognize and appreciate the literary masters who dominated the scene.



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		4) To grasp the different writing styles that each age adopted.
	English V - Literary Criticism	After completion of the course, students are expected to be able to: 1) use some important critical terms 2) become aware the nature and function of literature and criticism 3) impart the technique of close reading of literary texts 4) understand the various literary theories and critical approaches 5) be familiar with the tenets of practical criticism
	English VI - Grammar & The Art of Writing	After the completion of the course, students are expected to be able to: 1. Gain a basic understanding of phonetics, morphology and word transformation 2. Have improved speaking skills 3. Have developed adequate knowledge of the rules of grammar, grammatical analysis and sentence transformation 4. Write effectively in various domains.



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COURSE OUTCOMES OF B.A. MARATHI

SEM I	MARATHI COMPULSARY	1) TO INTRUODUCE FORMAL WRITING SKILLS
		2) TO INTRUODUCE MARATHI LANGUAGE AND LITERATURE
		3) TO DEVLOP READING HABITS.
		4) TO INTRUODUCE SHORT STORY.
SEM II	MARATHI COMPULSARY	1) TO INTRUODUCE PROFESSIONAL WRITING SKILLS
		2) TO INTRUODUCE LOGICAL FLOW IN WRITING.
		3) TO DEVLOP READING HABITS.
		4) TO INTRUODUCE POETRY.
SEM I	MARATHI ANCILLARY PAPER I	1) TO INTRUODUCE CONCEPT OF FORM OF LITERATURE
		2) TO INTRUODUCE DRAMA AS LITERARY FORM
		3) TO INTRUODUCE HISTORY OF MARATHI PLAYWRITING
		4) ACTUAL STUDY OF TWO MARATHI PLAYS (TEXTUAL STUDY)
SEM II	MARATHI ANCILLARY PAPER I	1) TO INTRUODUCE CONCEPT OF FORM OF LITERATURE
		2) TO INTRUODUCE TRAVELOGUE AS LITERARY FORM
		3) TO INTRUODUCE TRADITION OF MARATHI TRAVELOGUE
		4) ACTUAL STUDY OF TWO TRAVELOGUES
SEM III	MARATHI PAPER II INARRATIVE LITERATURE	1) TO INTRUODUCE CONCEPT OF NARRATIVE LITERATURE
		2) TO INTRUODUCE NOVEL AS LITERARY FORM
		3) TO ANALISE VARIOUS COMPONENTS OF NOVEL



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		4) TO ANALISE COMPONENTS OF SHORT STORY
SEM IV	MARATHI PAPER II	1) TO INTRUODUCE CONCEPT OF DRAMA AS LITERARY FORM AND UNDERSTAND ITS NATURE
		2) TO INTRUODUCE HISTORY OF MARATHI PLAYWRITING WITH REFERENCE TO SOME PROMINENT MARATHI PLAYS
		3) TO INTRUODUCE CONCEPT OF ONE ACT PLAY AS LITERARY FORM AND UNDERSTAND ITS NATURE
		4) TO UNDERSTAND HISTORY OF MARATHI ONE ACT PLAY WRITING
SEM III	MARATHI PAPER III LANGUAGE AND DILECTS STUDY	1) TO UNDERSTAND NATURE OF LANGUAGE
		2) TO STUDY RELATION OF LANGUAGE DILECT AND SOCIETY
		3) TO UNDERSTAND NATURE AND FEATURES OF DILECT
		4) ACTUAL STUDY OF SOME MARATHI DILECTS
SEM IV	MARATHI PAPER III GRAMMER AND WRITING SKILLS	1) TO ACQUIRE LANGUAGE WRITING SKILLS
		2) TO ACQUIRE ESSAY WRITING SKILLS AND PRACTICE ESSAY WRITING
		3) TO DEVLOP COMPUTER APPLICATION SKILLS IN MARATHI.
		4) TO UNDERSTAND MARATHI GRAMMER AND ITS APLICATION
SEM V	MARATHI PAPER IV HISTORY OF MEDIEVAL MARATHI LITERATURE	1) TO INTRUODUCE HISTORY OF MEDIEVAL MARATHI LITERATURE
		2) TO UNFOLD MOTIVES OF MEDIEVAL AGE LITERARY PRODUCTION AND CULTURAL BACKGROUND OF MARATHI LITERATURE IN MEDIEVAL AGE



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		3) GETTING ACQUAINTED LITERARY TRADITIONS, COMPOSITIONAL GENRES, AND AUTHORS OF MEDIEVAL TIMES. (<i>VARKARI AND PANDITI</i> LITERATURE IN MARATHI)
		4) EXPLAINING THE NATURE OF MARATHI LANGUAGE IN MEDIEVAL PERIOD.
SEM VI	MARATHI PAPER IV HISTORY OF MEDIEVAL MARATHI LITERATURE	1) TO INTRODUCE <i>SHAHIRI</i> LITERATURE
		2) INTRODUCING LITERATURE CREATED BY OTHER RELIGIONS IN MEDIEVAL AGE
		3) INTRODUCE LITERATURE OF DIFFERENT SECTS AND INTERRELATION BETWEEN LITERARY PRODUCTION AND MAIN SECTS OF MEDIEVAL TIMES
		4) INTRODUCE <i>BAKHAR</i> AS LITERY FORM AND ITS FEATURES
SEM V	MARATHI PAPER V INDIAN THEORIES OF LITERATURE	1) TO INTRODUCE NATURE AND THEORIES OF INDIAN LITERATURE
		2) TO UNDERSTAND THE NATURE AND FUNCTION OF LITERARY LANGUAGE IN INDIAN LITERARY TRADITION
		3) TO UNDERSTAND THE PROCESS OF LITERARY PRODUCTION IN INDIAN LITERARY TRADITION
		4) TO UNDERSTAND THE PURPOSE OF LITERARY PRODUCTION IN INDIAN LITERARY TRADITION
SEM VI	MARATHI PAPER V WESTERN THEORIES OF LITERATURE	1) TO INTRODUCE NATURE AND THEORIES OF WESTERN LITERATURE
		2) TO UNDERSTAND THE NATURE AND FUNCTION OF LITERARY LANGUAGE IN WESTERN LITERARY TRADITION
		3) TO UNDERSTAND THE PROCESS OF LITERARY PRODUCTION IN WESTERN LITERARY TRADITION



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		4) TO UNDERSTAND THE PURPOSE OF LITERARY PRODUCTION IN WESTERN LITERARY TRADITION
SEM V	MARATHI PAPER VI LITERATURE AND SOCIETY	1) TO UNDERSTAND RELATION BETWEEN LITERATURE AND SOCIETY
		2) UNDERSTANDING METROPOLITAN LITERATURE
		3) UNDERSTANDING RURAL LITERATURE
		4) EXPLORING LITERARY TRENDS BASED ON SELECTED WORKS OF ART
SEM VI	MARATHI PAPER VI LITERATURE AND SOCIETY	1) UNDERSTANDING THE RELATIONSHIP BETWEEN SOCIAL CHANGE AND LITERATURE IN SOCIETY
		2) UNDERSTANDING THE NATURE AND FEATURES OF DALIT LITERATURE
		3) UNDERSTANDING WOMEN LITERATURE
		4) EXPLAIN THE STREAMS OF LITERATURE BASED ON SELECTED WORKS OF ART
SEM V	MARATHI PAPER VII LINGUISTICS	1) KNOWING THE NATURE OF LANGUAGE AND ITS FUNCTION
		2) INTRODUCE DIFFERENT ASPECTS OF LANGUAGE STUDY
		3) TO GET ACQUAINTED WITH THE MODERN AND SCIENTIFIC METHODS OF LANGUAGE STUDY AND TO UNDERSTAND ITS UNIQUENESS OVER THE TRADITIONAL HISTORICAL METHOD.
		4) UNDERSTAND THE NATURE OF LINGUISTICS
SEM VI	MARATHI PAPER VII LINGUISTICS	1) TO GET ACQUAINTED WITH THE HISTORY OF MARATHI GRAMMAR AND VARIOUS GRAMMARIANS
		2) EXPLAIN THE CLASSIFICATION OF WORDS
		3) EXPLAIN THE IDEA OF VIKARAN



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		4) EXPLAIN WORD FORMATION
SEM V	MARATHI PAPER VIII, MODERN MARATHI LITERATURE	1) TO UNDERSTAND THE CONCEPT OF MODERN MARATHI LITERATURE
		2) TO REVIEW MODERN MARATHI LITERATURE
		3) TO STUDY THE FEATURES OF MODERN LITERATURE ON THE BASIS OF VARIOUS WORKS OF ART
		4) TO UNDERSTAND THE POSITION OF MODERN MARATHI LITERATURE
SEM VI	MARATHI PAPER VIII, POST MODERN MARATHI LITERATURE	1) TO UNDERSTAND THE CONCEPT OF POST MODERN MARATHI LITERATURE
		2) TO REVIEW POST MODERN MARATHI LITERATURE
		3) TO STUDY THE FEATURES OF POST MODERN LITERATURE ON THE BASIS OF VARIOUS WORKS OF ART
		4) TO UNDERSTAND THE POSITION OF POST MODERN MARATHI LITERATURE
SEM V	MARATHI PAPER IX, TRANSLATION SKILLS	1) INTRODUCE THE CONCEPTS OF TRANSLATION, AND ADAPTATION
		2) TO STUDY VARIOUS PROBLEMS OF TRANSLATION
		3) TO ACQUIRE THE SKILLS TO TRANSLATE ENGLISH - MARATHI - ENGLISH AND HINDI - MARATHI - HINDI
		4) EXPLAIN THE NATURE OF TRANSLATION PROCESS



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COURSE OUTCOMES OF B.A. HINDI

Semester - I	HINDI COMPULSORY	1. To explain the concept of poetry and story in Hindi.
		2. To introduce the poetry composition of poets in Hindi
		3. To expose the students art of translation and letter writing.
		4. To enhance the hindi language of the students by tracing in Hindi.
Semester - II	HINDI COMPULSORY	1. Explaining Hindi Poetry and story mode.
		2. Introducing the compositions of poetry and story genres and the creators
		3. Enabling students to express feeling and thoughts through Hindi essay writing.
		4. Enriching students language through Hindi idioms and grammar.
Semester - II	HINDI COMPULSORY	1. Explaining Hindi Poetry and story mode.
		2. Introducing the compositions of poetry and story genres and the creators
		3. Enabling students to express feeling and thoughts through Hindi essay writing.
		4. Enriching students language through Hindi idioms and grammar.
Semester - I	HINDI - I	1. To make the students aware of the trends and development of the story from the beginning of the Hindi story to the updated story. Introducing stories written by Hindi story writers.
		2. To acquaint students with the nature interpretation and features of Hindi story mode
		3. To introduce students to autobiography, sketches, satire, one-side genres.
		4. To introduce students to memoirs, travelogues, essays, folklore genres.



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Semester- II	HINDI - I	1. To acquaint the students with the nature, interpretation and features of Hindi novel.
		2. To make students aware of the review of Hindi novels based on the elements of Hindi novel.
		3. To introduce students to Hindi essay, memoir, sketch and biographical genres.
		4. To introduce students to Hindi satire, one-sided, scientific articles.
Semester - III	HINDI - II (Medieval and Modern Poetry)	1. To introduce students to medieval Hindi poetry genre and to introduce the couplets of the medieval Hindi poet surdas
		2. To make students aware of the poems of medieval Hindi poet Tulsidas and Mirabai.
		3. To make students aware of the couplets and posts of medieval poet Rahim and Bihari.
		4. To introduce students to modern Hindi poetry and poems of modern Hindi poets.
		5. Introducing students to " Swayamprabha" the block poem of Hindi Poet Ramakant Sharma ' Udbhrant'.
		6. Discuss textual questions from the point of view of students poetic assessment.
Semester - IV	Hindi - II (Modern prose literature)	1. There will qualitative development of new sociocultural and political values along with human sensibility in the students.
		2. New social, political cultural ideas will be spread among the students for nation building and the sense of responsibility will be developed.
		3. Awareness of new global values will be encouraged in the students and to inculcate a sense of responsibility towards the valueist vision.
		4. Artistic interest will be developed with literary taste in students and creative skills will be encouraged.



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Semester - III	Hindi - III	1. Development of writing skills to train students for the use and behavior of Hindi language in the office and other practical areas by giving information about the purposeful language to the students.
		2. To acquaint the students with the terminological terminology of Hindi and English purposefully
		3. To make students aware of business, office correspondence.
		4. To develop translation skills from English, Marathi language to Hindi language to the students.
		5. To make students aware of the Hindi language used in mass media and to make them familiar with the development to mass media.
Semester- IV	HINDI - III	1. To train the students for the practice and use of Hindi language in the field of practice by giving information about the language of mass communication.
		2. Introducing the students to the traditional mass media showing the social concerns of the internal and external aspects of the technology used in the mass media.
		3. To make students aware of news writing. editorial writing. interview. feature writing .
		4. To introduce students to the linguistic applications of social media. computer and television ect.
Semester - V	HINDI - IV (History of Hindi Literature)	1. To acquaint the students with the problems of nomenclature and period division in the history of the Hindi literature and to introduce the background of ancient Hindi literature and to make them aware of the general characteristics of Siddha, Nath, Jain and Raso literature.



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		<p>2. To acquaint the students with the background of Bhakti period Hindi literature and to familiarize them with the general characteristics of Saint poetry . Sufi poetry, Rambhakti poetry and Krishna devotional poetry.</p> <p>3. To acquaint students with the background of Ritikal Hindi literature.</p> <p>4. To make students aware of Reetibaddh, Reetisiddh and Reetimukt poetry.</p>
Semester - VI	HINDI - IV (History of Modern Hindi Literature)	<p>To acquaint the students with the development of modern Hindi poetry and to make a general information to the background and trends of Hindi literature of the modern period and to make them aware of the main features of the Bharatendu ect.</p> <p>2. To introduce the students to the salient feature of progressivism, Experimentalism, New poetry and contemporary poetry.</p> <p>3. To make students aware of the development of modern Hindi prose and to introduce the salient features of novel and criticism.</p> <p>4. To acquaint the students with the salient features of Hindi Autobiography, Biography and Memoirs.</p>
Semester - V	HINDI - V (Post Independence Hindi Literature)	<p>1. To acquaint the students with the meaning, definition, nature and development of drama and the elements and types of post-independence drama.</p> <p>2. To acquaint the students with the meaning, definition, difference element of essay and development of Hindi essay literature.</p> <p>3. To make students aware of the analysis and review of Kala Patthar drama.</p> <p>4. To acquaint the students with the monologues written by various one -acted cars of Hindi compiled in the single Ekaanke Suman collection.</p>



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Semester - VI	HINDI - V (Post Independence Hindi Literature)	1. To acquaint students with the meaning, definition form and sensibility of independence answer poetry to the students.
		2. To acquaint students with the meaning, definition, difference, element and development of the Indi essay literature to the students.
		3. To acquaint students with the poems written by various poets compiled in Kavya Saurabh poetry collection.
		4. To make students aware of the essays of essay cars compiled in the various essay collections.
Semester - V	HINDI - VI (Information Technology in Hindi)	1. To bring students to study information technology in Hindi language.
		2. To make students come to study work in Hindi language on computer.
		3. To introduce the students to the study of Hindi on the Internet.
		4. To explain the importance, need and utility of information technology in Hindi to the students.
		5. Students prepare 20 to 30 page project on any topic related to the syllabus.
Semester - VI	Hindi - VI (Social Media)	1. To acquaint the students with the nature, types and development of social media and to give information about Facebook, WhatsApp, Twitter Messenger, Extragram, Hindi blogging and Hindi social networking sites and advertisement, FM Radio Hindi.
		2. To educate the students about the political, social, religious and impact of social media on children, youth, women and old age.
		3. To make students aware of free expression and social media and to introduce the difference effect of the prevailing language of social media, society and culture.



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		<p>4. To make the students aware of social media and law to make the students aware of social media and changing Indian environment and to inform about the usefulness and achievements of social media.</p>
		<p>5. To make the students acquainted with the spread use of Hindi in social media and the problems and challenges of social media.</p>
		<p>6. Students prepare 20 to 30 page project on any topic related to the syllabus.</p>



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COURSE OUTCOMES OF B.A. HISTORY

SEM-I/II	HISTORY OF MODERN INDIA	1.The course is designed to make the student aware about the making of modern India and the struggle for independence.
		2.Analyse social religious consciousness in India
		3. Evaluate consolidation of English Power in India
		4. Identify Modern Indian Maps- sites of mutiny of 1857, Princely States in 1858, major sites of National congress sessions, major sites in Civil Disobedience
SEM-III/IV	Landmarks in World History, 1300 A.D.-1945 A.D	1. To enable the students to comprehend the transition of Europe from medieval to modern times and its impact on the world.
		2. To provide accurate knowledge of the most significant events and personalities of the period under study and encourage understanding of the making of the modern world
		3. To acquaint the students with different sources of Ancient Indian History.
		4.To enable the students to understand the political, socio-economic and cultural developments in the period under study and appreciate the rich cultural heritage in India
SEM- V	History of Medieval India (1000 CE-1526CE)	1. To acquaint the students with the history of early Medieval India that laid the foundation of the Sultanate in India.
		2. To study the contribution of Vijayanagar and Bahamani kingdoms to Medieval Indian History.
		3. To examine the administrative, socio-economic and cultural aspects of Medieval India.



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	History of Modern Maharashtra (1818 CE-1960 CE)	4. To acquaint students with regional history.
		5.. To understand political and socio-economic developments during the 19 th and 20th century.
		6. To create understanding of the movement that led to the formation of Maharashtra.
	Introduction to Archaeology	7. To understand the basic facets of Archaeology
		8. To evaluate the importance of Epigraphy.
		9. To study the importance of Numismatics as an important source of history.
SEM-VI	History of Medieval India (1526 CE-1707CE)	1. To acquaint the students with the history of India since the emergence of the Mughal rule.
		2. To understand administration of the Mughal Empire.
		3. To study the rise of the Maratha Power.
	History of Contemporary India (1947 CE- 2000 CE)	4. To understand the process of making the Constitution and the Integration and Reorganization of Indian States.
		5. To acquaint the students with the political developments in India after Independence
		6. To comprehend the socio-economic changes and progress in science and technology in India.
	Introduction to Museology and Archival Science	7.. To inform the students about the role of Museums in the preservation of Heritage.
		8. To understand the importance of Archival Science in the study of History.
		9.. To encourage students to pursue careers in various Museums and Archives in India and abroad.



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COURSE OUTCOMES OF B.A. PSYCHOLOGY

SEM - I	Fundamentals of Psychology (Paper I)	1. To make students understand fundamental schools of thoughts in psychology and to impart knowledge of the basic concepts and modern trends in Psychology.
		2. To know the career scope in psychology and to foster the interest in the subject of Psychology.
		3. To make the students aware of the applications of Psychological concepts in different areas of day to day life
		4. To understand the functioning of brain, nervous system and hormones and their influence on behaviour
		5. To learn reinforcement techniques.
		6. To develop effective ways of learning and remembering in students.
		7. To have basic knowledge of research methods used in psychology like observation, experimentation, correlation, survey, case study, etc.
SEM - II	Fundamentals of Psychology (Paper I)	1. To understand the mechanism of basic cognitive abilities and functioning like intelligence, thinking, language, motivation and emotions.
		2. To develop emotional intelligence and anger management skills
		3. To understand personality of self and others and to learn the ways of personality development
		4. To develop empathy and positive regards for others.
		5. To have basic knowledge of intelligence and personality testing in psychology.
		6. To learn basic statistical techniques used in psychological research.
SEM - III	Social Psychology (Paper II)	1. To know fundamental research areas and research methods in social psychology.



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		2. To help students in building knowledge of the basic concepts and modern trends in Social Psychology.
		3. To make the students aware of the applications of the various concepts in Social Psychology in the Indian context.
		4. To understand how internal and situational factors affect the behaviour of people around us and form accurate impression.
		5. To learn how to create good impression of self on others.
		6. To understand factors shaping attitudes and interpersonal attraction.
SEM - IV	Social Psychology (Paper II)	1. To learn effective ways of controlling prejudices and discrimination.
		2. To understand how people are influenced through confirmation, compliance and obedience.
		3. To learn effective ways to aggression control and anger regulation.
		4. To learn the ways to build cooperation in society and encourage prosocial behavior.
SEM - III	Developmental Psychology (Paper III)	1. To understand lifespan approach of development.
		2. To help students in building knowledge and understanding of the basic concepts, principles, perspectives and modern trends in Developmental Psychology
		3. To have insight in one's own identity formation.
		4. To develop strong self concept and to know about challenges and responsibilities in young adulthood
		5. To know the risk factors in young age like addiction, sexually transmitted diseases, violence, suicide, accidents, etc.
		6. To be rational in making career choice
SEM - IV	Developmental Psychology (Paper III)	1. To understand physical abilities, strengths and vulnerabilities in middle adulthood.



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		2. To know the cognitive processes of experts.
		3. To know challenges in social life of middle aged adults and senior citizens.
		4. To know about alzheimer, dementia and how to provide health care services to senior citizens.
		5. To know about counselling and training programs to sharpen cognitive abilities of senior citizens.



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COURSE OUTCOMES OF B.A. ECONOMICS

semester I	Microeconomics - I	1. To expose the students to the basic principles of microeconomic theory
		2. Development of analytical thinking with the help of statistical tools
		3. To develop the skill of application of microeconomics concepts to analyze the real life situations.
semester II	Microeconomics - II	1. To give supply side knowledge of Economics to the learner
		2. Enhance learners knowledge about aspects of production, cost and revenue analysis, theories of distribution
		3. To enhance the understanding about the market structure.
semester III	Macro Economics – I	To provide an introduction to the students about the basic building blocks of Macro Economics
	Public Finance	1. Deals with basic concepts which explain the need for government intervention.
		2. It exposes the student to public budget through issues of taxation, expenditure, debt and concepts of deficit.
		3. The study of government policy from the point of economic efficiency and equity.
semester IV	Macro Economics – II	4. To provide knowledge about changing role and functions of the government
		1. To make students aware of macroeconomic terminologies
		2. To understand economics at aggregate level.
		3. To make the students aware about recent developments in macroeconomic literature.
	Indian Economy	4. Make them familiar with macroeconomic terms and concepts
		1. It deals with the nature and sector wise composition of Indian economy.
		2. To understand the problems and prospects of Indian Economy.
		3. To orient the learners about the recent developments in the economy.
		1. To provide sound understanding in micro economic theory.



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semester V	ADVANCED MICROECONOMICS – III	2. Focuses on three main pillars of microeconomics such as imperfect competition, welfare economics and information economics.
		3. Enables students will get knowledge on new market structure, imperfect competition.
		4. Provides understanding on the welfare economics and economics of information.
	ECONOMICS OF GROWTH AND DEVELOPMENT	1. Enable students to apply and analyse issues in the development process.
		2. Students will be able to identify the issues related to Growth and Development
		3. Students will be able to understand the policy options and analyzed the Measures taken for the development of an economy.
	INDIAN FINANIAL SYSTEM- I	1. Empowering students about Indian Financial system, indicators of financial development and overview of financial sector reforms
		2. Awareness on performance, progress and issues in Indian Banking and overview of non-banking institutions in India
		3. The course leads to project work/ case studies based on empirical examples
	RESEARCH METHODOLOGY - I	1. The learners will understand and inculcate research in Economics
		2. The learners will exchange ideas and application of results of economic research.
		3. The course will help in formulation of problems in social science research.
		4. The students will understand data collection and presentation for quality research in social sciences.
	ENVIRONMENTAL ECONOMICS -I	1. On the completion of this course, the student will have a good understanding of contemporary environmental issues and their relation to economic development.
		2. The learner will be equipped to understand the methodologies and tools of valuing the environment.



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		3. In the light of international environmental agreements, the learners will be able to understand the global approaches and policies adopted by India to deal with the environmental issues.
	ECONOMY OF MAHARASHTRA - I	1. Students get acquainted with all varied sectors of the economy of Maharashtra 2. Awareness on challenges to be faced and measures to tackle the challenges
semester VI	ADVANCED MACROECONOMICS – III	1. To make student aware about Post Keynesian Synthesis and understand various aspects of Trade Cycles.
		2. Students will be able to describe the contemporary Exchange Rate Regimes and International Monetary System.
	INTERNATIONAL ECONOMICS	1. Students will be able to understand the trade theories and determinants of trade which helps them to analyze the international trade policies.
		2. Students will be able to understand the role of various international institutions and trade blocks and their approaches in framing the policies for trade.
	INDIAN FINANIAL SYSTEM- II	1. Focuses on features and functioning of financial markets as well as reforms therein.
		2. Empowers students about the evolution and significance of financial services, overview of new products and practices in the provision of financial services.
		3. Project work based on empirical case studies involving data analysis
	RESEARCH METHODOLOGY - II	1. The learners get assimilated to the research culture in Economics through application of statistics.
2. The learners will understand the concept of index number with its use and applications.		
3. The course will help in formulation of hypotheses and its testing in social science research.		



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		4. The students will understand the writing of social science research reports with its various types, organization and styles.
	ENVIRONMENTAL ECONOMICS - II	1. Students are empowered about the environmental challenges and the need for environmental accounting 2. Develop understanding on the policy measures to attain SDGs
	ECONOMY OF MAHARASHTRA –II	1. Provides deep understanding on the infrastructural and imbalances confronting the state. 2. Throws light on the skills needed to tackle such issues



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COURSE OUTCOMES OF B.COM.

COMMERCE

Commerce Sem -I	Business Development	Awareness on basic concept of business and recent trend in business
		Understanding on business surrounding
		To gain knowlege on Business promotion and Statutory requirement
		Motivating Entrepreneurship and awareness about types of entrepreneur
Commerce Sem -II	Service Sector	Insight into service sector and service Marketing Mix
		Recent trent in Retail sector in India
		Introduction of new Industry under service sector
		Types and growing trendd towards E-Commerce
Commerce Sem - III	Management: Functions and Challenges	Make learners aware about Conceptual Knowledge and evolution of Management
		Importance od Planning and Decision making
		To known different Organisational structure
		Realising the importance of Motivation ,Leadership and Controlling
Commerce Sem - IV	Management: Production and Finance	To develop knowledge on Production and Inventory Management
		Impotance of Quality in production and different quality concept
		Introduction towards Indian Financial Market
		Recent trent in Finance
Advertising I,Sem III	Advertising	It aims to orient learners towards the practical aspect and techniques of advertising
		To known about Advertising Agency
		Economic and Social aspect of Advertising
		To known What is Brand and Special purpose Advertising
Advertising II,Sem IV	Advertising	It is expected that this course will prepare learners to lay down a foundation for advanced post-graduate in advertising.
		To understand the Concept of advertising campaign, ad budget and media planning
		To highlight the role advertising for the success of brands and its importance within the marketing function of a company.



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		It aims to orient learners towards the practical aspects and techniques of advertising.
Commerce V,Sem -V	Marketing	It aims learner to know the concept of Marketing , Branding ,Positioning strategies
		As a Consumer what are the factors influencing consumer behaviour
		It is expected that this course will prepare learners to lay down a foundation for advanced post-graduate in Marketing
		The importance of Marketing Ethics as a key for marketing success
Commerce VI,Sem -VI	Human Resource Management	It will make learner aware of importance of Human resource as living asset to business
		Different Aspect of Human resource Development
		Learner will gain insight on maintaining Human Relations within organisation
		Course highlights different trends in HRM

BUSINESS ECONOMICS

Business Economics -Sem I	Business Economics (Micro Economics)	1.To make the students understand the concept of demand and its application in economic analysis and forecasting
		2.To make the students understand the working and growth of a business unit in the market oriented economic system
		3.To orient students with various kinds of costs involved in the production process
		4. To equip students with different revenue concepts and ways to achieve the different objective of the firm
Business Economics, SEM-II	Business Economics(Micro Economics)	1.Students would know about the market economy and its composition
		2. Students would know about the basic tools and principles used in the market economy with respect to production analysis and economies of scale.
		3.Students would learn about various cost concepts and its behaviour in short and long run.
		4. Students would be aware of rational decision making.
	Business Economics (Macro Economics)	1.Understanding the fundamentals of macroeconomics.



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Business Economics ,SEM- III		2.To help the students use macroeconomic concept to analyse the national economy.
		3. To provide the link between economic concepts and real world problems through cases and examples
		4. To help the students provide a clear explanation of many aspects of aggregate economic variables .
Business Economics ,SEM- IV	Business Economics (Macro Economics)	1.It is strongly recommended to analyze Union Budget of ongoing financial year in the classroom.
		2. To provide students with the tools to underlying concepts.
		3. To understand the role of government in the economy
		4.To help the students understand the principles of public finance.
Business Economics,SEM V	Business Economics (International Economics)	1.Help the students to understand the concept of international trade
		2. To understand the students the policies followed in international trade.
		3. Students will understand balance of payments account and its implications.
		4.Students will be able to understand the concept related foreign exchange market
Business Economics, SEM- VI	Business Economics (Economic Aspects of India)	1. Help to studens understand the process and actuality of economic reforms in India
		2.To help what are the policies related to agriculture sector in india.
		3. Help to knows the policies and performance of industry and service sector during reforms
		4.To gain the knowledge about the performance of financial sector during post reform period.

ACCOUNTANCY

sem I-	Accountancy and Financial management - I	Students will be able to gain knowledge with respect to :-
		1) know the concept of Accounting standards and its use
		2) understanding various methods of stock valuation
		3) importance and utility of Accounting standards
		4) preparation of the final accounts or manufacturer



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		5) know and differentiate the concepts of cost of production, cost of goods sold, sales, etc
		6) accounting of departmental stores
		7) accounting of Hire Purchases
Sem II	Accountancy and Financial management - II	<p>Students will be able to gain knowledge with respect to :-</p> <p>1) accounting for the small traders in the form of incomplete records</p> <p>2) accounting and treatment on the transaction made on consignment basis</p> <p>3) meaning and working/responsibilities of the head office</p> <p>4) meaning and working/responsibilities of branch of the head office</p> <p>5) Accounting treatments between Head Office and Branch</p> <p>6) accounting procedure to be done in case of fire in the business.</p>
Sem III	Accountancy and Financial Management- III	<p>Students will be able to gain knowledge with respect to :-</p> <p>1) Accounting treatments at the time of admission , retirement, death of the partner</p> <p>2) Concept of piecemeal distribution and its accounting.</p> <p>3) amalgamation of firms</p> <p>4) purchase consideration, meaning and methods of valuation</p> <p>5) accounting treatments in the books of old firms</p> <p>6) accounting treatments in the books of new firm</p>
	Financial accounting and auditing- Introduction to management accounting	<p>7) conversion of the partnership firm into a limited company</p> <p>Students will be able to gain knowledge with respect to :-</p> <p>1) concept of management accounting</p> <p>2) meaning and users of financial statements</p> <p>3) vertical form of financial statements and its importance</p> <p>4) types of vertical financial statements</p> <p>5) different types of ratios and its uses</p> <p>6) concept of working capital</p>



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		7) calculation of working capital
		8) capital budgeting - concepts and importance
		9) methods of capital budgeting and decision making
Sem IV	Accountancy and Financial management - IV	Students will be able to gain knowledge with respect to :-
		companies accounts
		redemption of preference shares and its accounting procedure
		redemption of debentures and its accounting procedure
	Financial accounting and auditing -VI Auditing	profit prior to incorporation
		Students will be able to gain knowledge with respect to :-
		auditing, importance of auditing, types of audit, principles of auditing
		procedure and documentation pertaining to audit
		internal control and internal check
		techniques of auditing
		vouching and its procedure
		verification and its procedure
Sem V	Financial accounting and auditing VII- Financial Accounting	students will be able to gain knowledge with respect to :-
		preparation of final accounts of the companies
		internal reconstruction and its accounting procedure
		buyback of share:- concept and accounting treatment
		investment accounting and its accounting
		ethical behaviour and its implications for accountant
	Financial accounting and auditing VIII- Cost accounting	students will be able to gain knowledge with respect to :-
		concept of cost accounting
		material costing
		labour costing
		overhead costing
		cost sheet and its preparation



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	Direct and indirect tax paper I	<p>reconciliation of profits as per financial accounting and cost accounting</p> <p>students will be able to gain knowledge with respect to :-</p> <p>basic terminologies regarding direct tax</p> <p>scope of total income and residential status</p> <p>heads of income i.e salaries, house property, business or profession, other source, capital gain</p> <p>deduction under section 80</p> <p>total income computation</p>
sem VI	Financial accounting and auditing paper IX- Financial accounting	students will be able to gain knowledge with respect to :-
		concept of amalgamation and its accounting treatment
		accounting for foreign transaction
		liquidation of companies and its accounting treatment
		underwriting of shares, concept, types of underwriting and accounting
		accounting for LLP
	Financial Accounting and auditing X- Cost accounting	students will be able to gain knowledge with respect to :-
		cost control accounts
		contract costing
		process costing
		marginal costing and its accounting implication
		standard costing and its accounting implication
Direct and indirect taxation- Indirect taxation	students will be able to gain knowledge with respect to :-	
	introduction to indirect taxes	
	levy and collection of taxation	
	time, place and value of supply	
	input tax credit & payment of tax	
	registration under GST law	



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BUSINESS LAW

Business Law, Sem III	Business law	1. To provide knowledge regarding laws governing business transactions.
		2. To study various aspects of contractual relations between the parties.
		3. To understand the term special contract.
		4. To study various concepts of Negotiable Instrument.
Business Law, Sem IV	Business law	1. to make students understand about different types of Companies, Procedure of meetings And different aspects under Companies Act, Partnership Act, Limited liability partnership act.
		2. To study new arena of intangible property that is intellectual property to study its different branches and to study Laws protecting intellectual property.
		3. To study guidelines that that constitutes a comprehensive policy and framework to promote and protect consumer rights.
		4. To study various agreements in respect of production and distribution, To study the regulations Which promotes healthy competition in the market.

MATHEMATICAL AND STATISTICAL TECHNIQUES

Sem I	FYBCOM Mathematical and Statistical Techniques	After completing this topic, 1) Students will be able to explain: • Concept of share, face value, market value, dividend, equity shares, preferential shares and bonus shares. • Simple problems on calculation of Net income after considering entry load, dividend, change in Net Asset Value (N.A.V.) and exit load, Averaging of price under the Systematic Investment Plan (S.I.P.).
		After completing this topic, 2) Students will be able to solve problems related to: • Factorial Notation, Fundamental principle of counting, Permutation as arrangement, combination as selection and Examples on commercial application



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		<p>of permutation and combination. • Mathematical Formulation of Linear Programming.</p>
		<p>3) After completing this topic, students will be able to solve problems associated with: • Arithmetic Mean, Median, and Mode for grouped as well as ungrouped data, Quartiles, Deciles and Percentiles, Using Ogive locate median and Quartiles. Using Histogram locate mode, Combined and Weighted mean. • Range, Quartile Deviation, Mean Deviation, Standard Deviation, Variance and Combined Variance.</p>
		<p>4) After completing this topic, students will be able to explain: • Mutually Exclusive and Exhaustive Events, Complementary events. Classical definition of Probability, Addition theorem, conditional probability and Independence of Events: $P(A \cap B) = P(A) P(B)$. • Probability distribution of a discrete random variable; Expectation and Variance of random variable.</p>
<p>Sem II</p>	<p>FYBCOM Mathematical and Statistical Techniques</p>	<p>1) After completing this topic, students will be able to solve examples connected with: • Demand, Supply, Total Revenue, Average Revenue, Total cost, Average cost and Profit function. Equilibrium Point and Break-even point. • Derivative, Marginal Cost, Marginal Revenue, Elasticity of Demand, Maxima and Minima for functions in Economics and Commerce.</p> <p>2) After completing this topic, students will be able to solve sums related to: • Simple Interest and Compound Interest. • Annuity Immediate and its Present value, Future value, Equated Monthly Installment's (EMI) using reducing balance method & amortization of loans</p>



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		<p>3) Upon completion, students will get acquaint to work with the problems associated with: • Scatter diagram, Karl Pearson's method of Correlation Coefficient and Spearman's Rank Correlation Coefficient. • Regression Coefficients, Relationship between Coefficient of Correlation and Regression Coefficients, Finding the equations of Regression lines by method of Least Squares</p> <p>4) Upon completion, students will get acquaint to work with the problems associated with: • Trends using Moving Average Method and Least Squares Method, Estimation of Seasonal Component and Concept of Forecasting using Least Squares Method. • Aggregate and Relative Index Numbers, Lasperye's, Paasche's, Dorbisch-Bowley's, MarshallEdgeworth and Fisher's ideal index numbers, Chain Base Index Nos. Shifting of Base year, Cost of Living Index Numbers, Concept of Real Income and Concept of Wholesale Price Index Number.</p> <p>5) After completing this topic, students will be able to explain: • Discrete Probability Distribution: Binomial and Poisson distribution. • Continuous Probability distribution: Normal Distribution.</p>
Sem V	TYBCOM Computer System and Applications	<p>1) Learning MYSQL can not only enhance your skills, but it can also give you a better understanding of applications you work with on a daily basis</p> <p>2)SQL is RDBMS which is used in all private and government sectors</p> <p>3)It can boost your employability and career prospects, whilst also being a useful tool to analyze data in everyday life, such as when managing personal finances.</p> <p>4)In Excel, Pivot Tables and charts will allow you to quickly identify trends in</p>



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		large datasets and inform business decisions
Sem VI	TYBCOM Computer System and Applications	1) Microsoft Excel is a powerful spreadsheet and data analysis program with wide-ranging capabilities.
		2) Conditional formatting allows you to apply a format to a cell or a range of cells based on a given criteria which will make data easier to read.
		3) Visual basic programming language allows programmers to create software interface and codes in an easy to use graphical environment.
		4) VB is the combination of different components that are used on forms having specific attributes and actions with the help of those components.



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COURSE OUTCOMES OF B.Sc. PHYSICS

sem-I	Paper-I Classical Physics	To understand Newton's law and it's applications
		To understand concept of friction, elasticity, fluid mechanics
		To understand concept of lens system and interference
		To apply the laws of thermodynamics
sem-I	Paper-II Modern Physics	To understand Nuclear properties.
		To study significance of interaction between particle and matter. different types of nuclear reaction and radiation detectors.
		To understand origin of Quantum Mechanics and study Quantum Mechanical concepts.
		To study Production of x-rays and its applications, to demonstrate quantitative problem solving skills in all the topics covered.
sem-I	Practical -1USPHP1	Student will be able to demonstrate practical skills,
		use of appartus without fear
		corelate physics theory concept through practicals
		understand concept of errors
sem-II	Paper-I Mathematical Physics	To understand Basic mathematical concepts
		to apply the concept in physical situations
		to understand concept of wave-motion.
		to demonstrate quantitative problem solving skills
sem-II	Paper-II Electricity and Electronics	To understand basic of A.C circuits, A.c bridges and circuit theorems
		To understand D.C power supply and digital Electronics
		To understand concept of Electrostatics, Magnetostatics
		to demonstrate quantitative problem solving skills
sem-II	Practical -2 USPHP2	Student will be able to demonstrate practical skills,
		Use of appartus without fear
		To Corelate physics theory concept through practicals
		understand concept of errors



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sem-III	Physics-I Mechanics and Thermodynamics	To understand concept of Mechanics and properties of Matter
		To understand Basic concept of Thermodynamics and it's applications.
		To learn about low temperature Physics
		to demonstrate quantitative problem solving skills
sem-III	PHYSICS-II Vector Calculus and Analog Electronics	To understand concepts of Mathematical Physics and it's Application
		To understand laws of electrodynamics
		To understand transistor - biasing, operational amplifier and it's applications .
		to understand basic concept of oscillators and demonstrate quantitative problem solving skills for all topics
sem-III	PHYSICS-III Applied Physics	Student will be expose to role of physics in inter-disciplinary areas related to material and Acoustics
		To understand scope of subject in industry and Research
		to foster creative thinking
		to demonstrate quantitative problem solving skills
sem-III	Practical Course 3- USPHP3	Student will be able to demonstrate practical skills,
		Use appartus without fear
		To Corelate physics theory concept through practical applications
		Understand concept of errors
sem-IV	PHYSICS-I Optics and Digital Electronics	To understand Diffraction and Polarization processes
		To understand Application Of Interference, resolving power of optical instrument
		To understand use of IC555 timer
		to demonstrate quantitative problem solving skills
sem-IV	PHYSICS-II Quantum Physics	To understand Postulate of Quantum Mechanics and it's Significance.
		To understand concept of wave function
		To study TDSE and TIDSE,
		to demonstrate quantitative problem on potential barrier.



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sem-IV	PHYSICS-III Applied Physics-II	To introduce the field of geophysics and it's relationship with other sciences
		To build concept of microprocessor, and instruction set
		To understand radio communication and modulation technique
		To introduce concept of Digital communication
sem-IV	Practical Course 4- USPHP4	Student will be able to demonstrate practical skills,
		Use appartus without fear
		To Corelate physics theory concept through practical applications
		Understand concept of errors
sem-V	PHYSICS-I Mathematical Thermal and Statistical Physics	To Learn mathematical techniques required to understand Physical Phenomenon
		To Solve basic problems in Probability, complex function, PDE,
		To understand important ideas of Statistical Mechanics, and difference between classical and qntum ststistics
		To demonstrate quantitative problem solving skills
sem-V	PHYSICS-II Solid State Physics	To understand basics of Crystallography
		to understand electrical properties of metal and Band theory of solids
		To understand Fermi distribution function, Density of States, conduction in semiconductor and introduction to Superconductivity.
		To demonstrate quantitative problem solving skills
sem-V	PHYSICS-III Atomic and Molecular Physics	To understand application of Q.M in atomic Physics
		to study electron spin, symmetric antisymmetric wave function and Vector atom model
		To understand effect of magnatic field on atoms and it's Applications.
		To learn molecular physics and it's applications, to demonstrate quantitative problem solving skills
sem-V		To understand Laws of Electrodynamics



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	PHYSICS-IV Electrodynamics	to understand Maxwell's Electrodynamics and its relation to Relativity To derive Optical laws from electromagnetic principle. To demonstrate quantitative problem solving skills
sem-V	PHYSICS-V Analog Circuits, Instruments and Consumer Appliances	To understand concept of Transducer and sensors along with application To learn concept of signal conditioning, devices used and their operation. To get insight of modern medical Instruments To demonstrate quantitative problem solving skills
sem-V	Practical Course- USPHP05	Student will be able to demonstrate basic practical skills, for general and Dark room expts to understand designing of the electrical experiment To Correlate physics theory concept through practical applications Calculation of result with estimated error in the observation
sem-V	Practical Course- USPHP06	Student will be able to demonstrate basic practical skills, for general and Dark room expts to understand designing of the electrical experiment To Correlate physics theory concept through practical applications Tracing of waveforms
sem-V	Practical Course- USACEI5P1	Student will be able to demonstrate basic practical skills. Use of breadboard for Circuit design and testing. To Correlate instrumentation theory concept through practical applications Calculation of result, Plotting of graphs
sem-VI	PHYSICS-I Classical Mechanics	To understand the motion under central force , Kepler's Laws of planetary motion, concept of accelerated coordinate system To study important formalism of Lagrange's equation and to solve examples using this formalism



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		To understand fluid dynamics and rigid body rotation. To introduce Non-linear mechanics and aspects of chaotic behaviour
		To demonstrate quantitative problem solving skills
sem-VI	PHYSICS-I Electronics	To understand the basics of semiconductor devices and it's application(FET, MOSFET,SCR,UJT)
		To understand application of operational Amplifier
		To understand timing pulse generation and regulated poewer supplies
		To understand concept digial communication and develop quantitative problem solving skills
sem-VI	PHYSICS-III Nuclear Physics	To understand the fundamentals of classical nuclear and particle physics.
		To understand interaction of particle with radiation and working of particle accelerators.
		To give insight on unsolved questions on dark matter and other research oriented topics
		To demonstrate quantitative problem solving skills
sem-VI	PHYSICS-IV Special Theory of Relativity	To understand the significance of Michelson Morley expt .
		To understand Postulates of special theory of relativity , lorentz transformation,
		To understand einstein's concept of space and time
		To solve problems based on length contraction , time dialation, and twin paradox.
sem-VI	PHYSICS-V Digital Electronics, Microprocessor and OOP	To learn to design combinational logic circuit
		To develop assembly language programming skills,to understand interfacing of I/O peripheral with 8085 kit.
		To understand architecture of 8051 microcontroller, instruction set, prog. and interfacing.
		To study features of Object Oriented Programming and prog. language C++
sem-VI	Practical Couse- USPHP07	Student will be able to demonstrate basic practical skills, for general and Dark room expts



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		to understand designing of the electrical experiment
		To Correlate physics theory concept through practical applications
		Calculation of result with estimated error in the observation
sem-VI	Practical Course- USPHP08	Student will be able to demonstrate basic practical skills, for general and Dark room expts
		to understand designing of the electrical experiment
		To Correlate physics theory concept through practical applications
		Tracing of waveforms
sem-VI	Practical Course- USACEI6P1	Student will be able to demonstrate basic programming skills.
		Use of breadboard for circuit building (MUX-De-Mux, Encoder, Decoder) and verifying it's truth table
		To understand 8085 and 8051 theory through practicals
		To study C++ programming, simple I/O programmes , control structures, switch-case.



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COURSE OUTCOMES OF B.Sc. CHEMISTRY

SEM - I	USCH101	<p>The students will be able to understand the terms and laws involved in chemical thermodynamics along with the concept of Thermochemistry. The students will be well acquainted with the various ways of expressing the concentration of solutions.</p> <p>Students will have firm foundation in the model, theory and principles of atomic structure with some basics of Quantum mechanism.</p> <p>Students will be able to explore the periodicity of properties of elements.</p> <p>Students will be skilled in IUPAC rule in naming aliphatic compounds</p> <p>Students will be well versed with the hybridization and shapes of organic compounds. The students will be able to differentiate between inductive, mesomeric and resonance effect along with bond fission. They will also develop an understanding of carbocations, carbanions and free radicals.</p>
SEM - I	USCH102	<p>Students understand the importance of chemical kinetics to determine the rate of reaction and the mechanism by which the reaction takes place. They understand the difference between order and molecularity and derive integrated rate equations for first and second order reactions. Students learn the knowledge of physical measurements like surface tension, viscosity and refractivity of liquids and their usefulness in elucidating composition and the structure of molecules.</p> <p>Students learn to compare chemistries of main group elements and compounds of group 1 and group 2 in a logical and lucid manner. Also they understand environmental chemistry of carbon, sulphur and nitrogen.</p> <p>Students get an insight to the basic concepts of stereochemistry like different projection formulae, their conversions, isomerism, different configurations and conformations.</p>
SEM II	USCH201	<p>The students will acquire the knowledge of second law of thermodynamics and entropy.</p>



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		<p>The students will be able to understand about the ideal gas laws, kinetic theory of gases and deviations from the same along with Van der Waals equation and Joule-Thomson effect.</p> <p>The students will be skilled in qualitative analysis and acid-base theory</p> <p>Students will have firm foundation in chemistry of aliphatic hydrocarbons.</p> <p>Students will be able to explore the formation and reactions of alkenes and alkynes.</p> <p>Students will be skilled in problem solving and critical thinking.</p>
SEM II	USCH202	<p>Students understand the difference between acid and base, how to calculate pH of various solutions and mechanism by which buffer solutions resist change in pH.</p> <p>Students try to imagine the various structures and forms of solids. Also they learn about electromagnetic radiations, their wavelengths and various molecular transitions.</p> <p>Students learn a complete new approach to molecular geometry and shapes of molecules on the basis of valence shell electron pair repulsion theory.</p> <p>Students acquire knowledge about various redox reactions and learn to calculate the oxidation number of elements in different compounds and balance redox reactions</p> <p>Students understand the basic chemistry of aliphatic hydrocarbons and mechanism of various electrophilic and nucleophilic addition reactions. They understand the basic concept of aromaticity and electrophilic aromatic substitution reaction with their mechanism.</p>
SEM - III	USCH301	<p>To understand concept of Fugacity and Activity</p> <p>To understand concept of Solubility and Solubility product of Salts</p> <p>Student should understand the concept of ionic bond, radius ratio and calculation of lattice energy.</p> <p>Students should gain the knowledge of valence bond theory and concept of hybridization and its application in various molecules.</p>
		<p>To understand effect of temperature on the rate of reaction</p>



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SEM - III	USCH302	<p>To understand Newton's Distribution law and its applications.</p> <p>To understand the basic chemistry of carbonyl compound, its reaction and application Students will understand reactions and reactivity of Halogenated Hydrocarbon. They will also understand about organomagnesium and organolithium compounds</p> <p>Learners understand how compounds remain stable under uncomfortable situation.</p>
SEM III	USCH303	<p>Students will learn about theoretical concepts in Volumetric analysis and Gravimetric analysis Students will be skilled in solving problems on concentration unit Students learn about the different titrimetric methods and tools</p> <p>Students understand different applications of UV – Visible Spectrophotometry. Learners understand how to use instruments under instrumental analysis for micro – analysis to semi – micro analysis.</p>
SEM IV	USCH401	<p>To understand concept of Reversible and Irreversible cells</p> <p>To understand Two - Component System. Students should learn about co-ordination compounds and various terms related to it. Students will gain knowledge of transition elements and properties related to it like colour, magnetic properties, etc.</p>
SEM IV	USCH402	<p>To understand Mechanisms and kinetics of enzymes</p> <p>To understand crystal lattice structure of salts.</p> <p>Gain the knowledge of preparation, reaction, basic chemistry, and application of amines, diazonium compounds and heterocyclic compounds at industry level.</p> <p>Learners will understand the reactions and mechanism related to the functional groups carboxylic acids and sulphonic acids.</p> <p>Students understand importance of water in ions in aqueous medium.</p>
SEM IV	USCH403	<p>Students learn about principle, instrumentation, end point determination and applications of different techniques like potentiometry, conductometry and pH – metry.</p>



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		<p>Students understand the plotting of different conductometry graphs.</p> <p>Learners learn to calculate different types of errors and graphical representation of data.</p> <p>Students understand separation into groups in separation methods.</p>
SEM V	USCH501	<p>To apply the laws of chemical thermodynamics.</p> <p>To understand concept of colligative properties of solid.</p> <p>To understand concept of infrared spectra of molecules.</p> <p>To understand basic concept of nuclear chemistry</p> <p>Learners will get insight into 4f and 5f inner transition elements and its transitions.</p>
SEM V	USCH502	<p>Learners will understand the geometry of different crystal lattice, APF (atomic packing factor) and defects.</p> <p>Students understand the molecular symmetry and construction of molecular orbital diagram for diatomic and polyatomic molecules.</p> <p>Students understand the different types of superconductors.</p> <p>Students understand how to carry reaction without water as a medium in non – aqueous medium</p>
SEM V	USCH503	<p>Learners will understand classification and basic mechanism of reactions. They will get knowledge about new IUPAC rules.</p> <p>Students will understand difference between chiral and non – chiral compounds and how new agrochemicals and heterocyclic compounds are synthesized.</p> <p>Learner will understand the importance of twelve green principles and difference between green and traditional synthesis.</p> <p>Students will understand the importance of UV and Mass spectroscopy and different set of reactions to determine structure of compounds.</p>
SEM V	USCH504	<p>The students learn about importance of quality in industry, different concentration unit and preparation of solutions numerically, different techniques of sampling.</p>



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		<p>The student will be able to understand about theoretical concepts in redox titrations and complexometric titrations.</p> <p>The students learn about important methods of separation used in industry like HPLC, HPTLC and solvent extraction.</p> <p>Students understand the effects of interaction of light with matter in optical method.</p>
SEM V	USCH505	<p>Students learn about different types of terms related to drugs like therapeutic index, LD 50, ED50, etc. They also learn about the pharmacopoeia available for different drug analysis.</p> <p>Learners understand the various drugs under the class of analgesics, antipyretics and anti – inflammatory drugs.</p> <p>Gain the knowledge of Dyes, its properties, factor responsible for colour, and its naming</p> <p>Gain the knowledge of types of dyes, types of fiber, its history and different types of dyeing methods of various fibre</p>
SEM VI	USCH601	<p>To understand the Lewis concept.</p> <p>To understand concept of molar mass of polymers</p> <p>To understand concept of classical mechanics.</p> <p>To use of renewable energy resources</p>
SEM VI	USCH602	<p>Learners will understand organometallic compounds of main group metal, its synthesis and properties. They will also understand different types of catalysis and metallocenes.</p> <p>Learners get insight into crystal field theory, crystal field stabilization energy and crystal field splitting.</p> <p>Students understand molecular orbital theory for coordination compounds.</p> <p>Students learn types of reactions in metal complexes.</p> <p>Students understand how to extract the minerals using metallurgy.</p>
SEM VI	USCH603	<p>Learner will understand how stereochemistry plays important role in different type of organic reactions which follow different mechanism</p> <p>Mind of Learners would be impulse to consider different steps to study the compounds like carbohydrate and nucleic acid</p>



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		<p>Learners will understand the importance of polymeric product in day to day life Students will get information during reactions how catalyst and reagent play important role in selectivity and transformation Learners will understand how to use different spectroscopic techniques to determine structure of organic compound</p>
SEM VI	USCH604	<p>The students study about different electroanalytical techniques like polarography and amperometry and their use in qualitative and quantitative analysis. The students learn about advanced chromatographic techniques such as GLC, GSC and ion exchange chromatography. The students will get knowledge about Food science & cosmetology. They understand about composition, adulterant and analysis of Milk, Tea, Coffee & Honey. Learn about composition and analysis cosmetics Students understand the effect of heat on compounds using thermal method</p>
SEM VI	USCH605	<p>Students learn about drug discovery, design and development. They understand how a drug is metabolized in the human body. Also they understand about various chemotherapeutic agents Students learn about anti – amoebic drugs, anti – tubercular drugs, anti – neoplastic drugs, etc. Also they learn about the preparation of various drug intermediates To learn about the Classification of the dyes and preparation of the various dyes by different chemical methods at the level of industry or laboratory To learn about the basic properties of optical brighteners, clasification, application and preparation of optical brightners and its derivative To learn about different types of the theories of dyes, unit process and preparation of different types of dye intermediate</p>



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COURSE OUTCOMES OF B.Sc. MATHEMATICS

Sem I	FYBSC Mathematics Paper 1 Calculus I	1) Gain Knowledge of fundamental concepts of real numbers.
		2) Verify the value of the limit of a function at a point using epsilon-delta definition of limit.
		3) learn to define sequences in terms of functions from \mathbb{N} to \mathbb{R} .
		4) learn to define differential and partial differential equations. Here we mainly focused on first order first degree differential equations and we learn to convert a second order differential into a first order differential equation.
Sem I	FYBSC Mathematics Paper 2 Algebra I	1) Students will be able to understand the concept of an integer and divisibility. Students will also be able to solve the examples of integers and divisibility.
		2) Students easily understand the concept of functions and equivalence relation.
		3) Students learn and Identify the degree, leading coefficient, and leading term of a polynomial expression · Perform algebraic operations on polynomial expressions etc.
		4) Students understand the concept of polynomial, statement and proof of the Division Algorithm for polynomials, and be able to solve related examples.
Sem II	FYBSC Mathematics Paper 1 Calculus II	1) Learn to check function is continuous understand the consequences of the intermediate value theorem for continuous functions
		2) understood the concept of differentiation and fundamental theorems in differentiation and various rules.
		3) Geometrical representation and problem solving on Mean Value Theorems, Taylor series expansion at a specified point.
		4) Find out extreme values of function and using concavity and point of inflection, we sketched the graph of functions.
Sem II	FYBSC Mathematics Paper 2 Discrete Mathematics	1) Understand the basic principles of sets and operations in sets.
		2) Students understand and learn the concept of Counting Principles, Two way counting, Stirling numbers and Multinomial theorem.



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		3) Students formulate recurrence relations to solve problems involving an unknown sequence.
		4) Students easily understand the concept of homogeneous and non-homogeneous recurrence relation, Fibonacci sequence and related problems solved easily.
Sem III	SYBSC Mathematics Paper 1 Calculus III	1) Understand many properties of the real line \mathbb{R} and learn to define sequence in terms of functions from \mathbb{R} to a subset of \mathbb{R} .
		2) Learn and understand some of the properties of Riemann integrable functions, and the applications of the fundamental theorems of integration.
		3) Learn and apply properties of Improper integrals
		4) After completion of this course, the students will be able to understand the concept of Sequence, limit, continuity, differentiability, Riemann Integration in detail.
Sem III	SYBSC Mathematics Paper 2 Linear Algebra I	Solve a system of linear equations.
		Solve systems of linear equations using Gauss-Jordan elimination to reduce to echelon form
		Introduction to vector spaces and subspaces.
		Compute determinants of using Laplace expansions and properties of determinants
Sem III	SYBSC Mathematics Paper 3 Ordinary Differential Equations	1) To apply appropriate numerical methods to solve the problem with most accuracy.
		2) Using appropriate numerical methods determine approximate solution of ODE and system of linear equation.
		3) Student will be able to find the complete solution of a nonhomogeneous differential equation as a linear combination of the complementary function and a particular solution.
		4) Student will have a working knowledge of basic application problems described by second order linear differential equations with constant coefficients.
Sem IV	SYBSC Mathematics Paper 1 Multivariable Calculus I	1) Gain Knowledge of fundamental concepts of real numbers in n dimensions. Verify the value of the limit of a function at a point using the definition of the limit in \mathbb{R}^n
		2) Geometrical representation and problem solving MVT.



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		3) Students will have to understand differentiation and fundamental theorem in differentiation and various rules.
		4) Find the extreme value in 2 dimensions.
Sem IV	SYBSC Mathematics Paper 2 Linear Algebra II	Use matrix algebra and the related matrices to linear transformations.
		Learn properties of inner product spaces and determine orthogonality in inner product spaces.
		Find eigenvalue and eigenvectors of a square matrix using the characteristic polynomial.
		how to diagonalize a matrix is diagonalizable.
Sem IV	SYBSC Mathematics Paper 3 Numerical Methods	1) Demonstrate understanding of common numerical methods and how they are used to obtain approximate solutions to otherwise intractable mathematical problems
		2) Apply numerical methods to obtain approximate solutions to mathematical problems.
		3) Derive numerical methods for various mathematical operations and tasks, such as interpolation, differentiation, integration, the solution of linear and nonlinear equations, and the solution of differential equations
		4) Analyze and evaluate the accuracy of common numerical methods
Sem V	TYBSC Mathematics Paper 1 Calculus	Define the double and triple integrals as a limit of Riemann sum and to see their interpretations as average value, volume under graph, volume of a solid, area of a region, total mass from density. Estimate multiple integrals in different coordinate systems including Cartesian, polar, cylindrical and spherical coordinates.
		Use the most important theorems of vector calculus, such as the Fundamental Theorem of Line Integrals, Green's Theorem, the Divergence Theorem, and Stokes' Theorem, to simplify integration problems.
		Define and evaluate line integrals using the Fundamental Theorem of Line Integrals and Green's Theorem
		Define and compute the curl and divergence of vector fields and apply Green's Theorem, Stokes's Theorem and the Divergence Theorem to evaluate line integrals, surface integrals and flux integrals.



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Sem V	TYBSC Mathematics Paper II Linear Algebra	1) This course will enable the students to: i) Understand the concepts of vector spaces, subspaces, bases, dimensions and their properties.
		2) Definition and examples, Algebra of linear transformations, Matrix of a linear transformation, Change of coordinates.
		3) Learn and understand properties of eigenvalues and eigenvectors.
		4) Students understand and apply all properties of this course.
Sem V	TYBSC Mathematics Paper 3 Topology Of Metric Spaces	1) Isolate the three fundamental properties of distance and base all our deductions on these three properties alone in the treatment of the metric spaces.
		2) Distinguish between open and closed balls in a metric space.
		3) Provide students with systematic proofs of theorems using the definitions of basic terms and properties of metrics.
		4) Treat the various basic concepts of adherent points, convergent and Cauchy convergent sequences, complete spaces ; compactness and connectedness etc. to the students.
Sem V	TYBSC Mathematics Paper 4 Graph Theory	1) learn some basics of graphs and understood the concept of shortest path problems.
		2) learn the definitions like cycles, bipartite graphs, complete graphs, connected graphs, etc.
		3) learn the definition of Tree in a graph and its consequences, algorithms to find minimal spanning trees.
		4) learn about Eulerian and Hamiltonian graphs.
Sem V	TYBSC Mathematics Paper 5 Computer Programming and System Analysis	1) Learning SQL can not only enhance your skills, but it can also give you a better understanding of applications you work with on a daily basis
		2) SQL is RDBMS which is used in all private and government sectors
		3) Java teaches new coders how to think like a programmer, working through processes with logic and testing out ideas.
		4) Learning and doing programming is an exercise for your brain that eventually improves your problem solving and logical ability.



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Sem VI	TYBSC Mathematics Paper 1 Basic Complex Analysis	Analyze limit, continuity and differentiation of functions of complex variables. Understand Cauchy-Riemann equations, analytic functions and various properties of analytic functions. Understand conformal mapping.
		Understand Cauchy theorem and Cauchy integral formulas and apply these to evaluate complex contour integrals.
		Represent functions as Taylor and Laurent series; classify singularities and poles.
		find residues and evaluate complex integrals using the residue theorem.
Sem VI	TYBSC Mathematics Paper II Algebra	1) The course will enable the students to: i) Recognize the mathematical objects called groups. ii) Link the fundamental concepts of groups and symmetries of geometrical objects.
		2) Students learn and understand Properties of cosets, Normal subgroups, Simple groups, Factor groups
		3) Definition, examples and elementary properties of rings, Commutative rings, Integral domain,
		4) Students understand the concept of Polynomial rings over commutative ring and their basic properties, The division algorithm; Polynomial rings over rational field, Gauss lemma and Eisenstein's criterion, Euclidean domain, principal ideal domain, and unique factorization domain.
Sem VI	TYBSC Mathematics Paper 3 Topology Of Metric Spaces And Real Analysis	1) Introduce the students to the definitions of basic terms and concepts of continuous function in metric space topology.
		2) Treat the various basic concepts of separated sets , disconnectedness, connectedness, path connected sets etc. to the students.
		3) Understand and be able to apply basic definitions and concepts in set and function theory. Understand the nature of a logical argument and a mathematical proof and be able to produce examples of these.
		4) Understand the definitions of limits and convergence in the context of sequences and series of real numbers. Be able to compute limits of sequences involving elementary functions. Be able to prove simple statements involving convergence arguments.



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Sem VI	TYBSC Mathematics Paper 4 Graph Theory and Combinatorics	1) learn to color the vertices and edges of graphs, connectivity and some standard results related to coloring.
		2) learn to identify planar graphs, some lemmas which help to identify planarity of a graph
		3) learn to identify maximum flow and minimum cut in a network.
		4) learn to relate marriage condition using matching in a graph and some parts of combinatorics.
Sem VI	TYBSC Mathematics Paper 5 Computer Programming and System Analysis	1)Java can also be used to create a small application program based on applet, which is further used for web page.
		2) Python is highly versatile. You can use it for both small and complex tasks, and it is used across many different industries
		3) Python is easier to read, write, and learn than most other major programming languages.
		4) Python is used for algebraic calculations and plot the different graphs



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COURSE OUTCOMES OF B.Sc. ZOOLOGY

SEMESTER I	USZO101 :Wonders of Animal World, Biodiversity and its Conservation; USZO102: INSTRUMENTATION and ANIMAL BIOTECHNOLOGY; Practical USZOP1	1. Curiosity will be ignited in the mind of learners, to knowmore about the fascinating world of animals which would enhance their interest and love for the subject of Zoology.
		2. Learners would appreciate treasure of Biodiversity, its importance and hence would contribute their best for its conservation.
		3. Minds of learners would be impulsed to think differently and would be encouraged ipso facto to their original crude ideas from the field of biological sciences.
		4. Learners would work safely in the laboratory and avoid occurrence of accidents (mishaps) which will boost their scholastic performance and economy in use of materials/chemicals during practical sessions.
SEMESTER II	USZO 201 : Ecology and Wildlife Management; USZO202: NUTRITION, PUBLIC HEALTH AND HYGIENE; Practical USZOP2	1. This unit would allow learners to study about nature of animal population, specific factors affecting its growth and its impact on the population of other life form.
		2. Learners will grasp the concept of interdependence and interaction of physical, chemical and biological factors in the environment and will lead to better understanding about implications of loss of fauna specifically on human being, erupting spur of desire for conservation of all flora and fauna.
		3. Learners would be inspired to choose career options in the field of wild life conservation, research, photography and ecotourism.
		4. Healthy dietary habits would be inculcated in the life style of learners in order to prevent risk of developing health hazards in younger generation due to faulty eating habits.
SEMESTER III	USZO 301 : Fundamentals of Genetics, Chromosomes and Heredity, Nucleic acids; USZO302: Nutrition and Excretion, Respiration and Circulation, Control and Coordination of Life Processes, Locomotion and Reproduction; USZO303:	1. Learner would comprehend and apply the principles of inheritance to study heredity. Learner will understand the concept of multiple alleles, linkage and crossing over.
		2. To introduce the concepts of physiology of nutrition, excretion and osmoregulation. To expose the learner to various nutritional apparatus, excretory and osmoregulatory structures in different classes of organisms.



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	Ethology, Parasitology, Economic Zoology; Practical USZOP3	3. To equip learner with a sound knowledge of how animals interact with one another and their environment. To enable the learner to understand different behavioural patterns. 4.To acquaint the learner with the concepts of parasitism and its relationship in the environment. To introduce the learner to modes of transmission of parasites.
SEMESTER IV	USZO 401 : Origin and Evolution of Life, Population Genetics and Evolution, Scientific Attitude, Methodology, Scientific Writing and Ethics in Scientific Research USZO 402: Cell Ultrastructure and Biomolecules USZO 403: Comparative Embryology, Aspects of Human Reproduction, Pollution and its effect on organisms; Practical USZOP4	1. Learner will gain insights into the origin of life. Learner will analyse and critically view the different theories of evolution. 2. Learner would acquire insight into the composition of the transport mechanisms adopted by the cell and its organelles for its maintenance and composition of cell 3. Learner will be able to understand and compare the different types of eggs and sperms. Learner will be able to understand and compare the different pre- embryonic stages 4.The learners will be sensitized about the adverse effects of pollution and measures to control it.
SEMESTER V	USZO 501 : Taxonomy - Invertebrates and Type Study; USZO 502: Haematology and Immunology; USZO503: Histology, Toxicology, Pathology and Biostatistics; USZO504: Anatomy and Developmental Biology; Practical Syllabus for Semester V Course code: USZOP05; Course 11	1. Learners will apprehend the basis of classification and modern classification up to class of the lower invertebrate animals. 2. The learner shall comprehend basic haematology. The learner will be able to identify various components of haemostatic systems. 3.Learner would appreciate the well planned organization of tissues and cells in the organ systems. 4.Learner will be able to understand the importance of various types of epidermal and dermal derivatives along with their functions.
SEMESTER VI	USZO 601 : Taxonomy - Chordates and Type Study; USZO 602: Physiology and Tissue Culture; USZO603:	1. Learners will get an idea of origin of Chordates, its taxonomy up to class with reference to phylogeny and their special features.



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Genetics and Bioinformatics; USZO 604: Environmental Biology and Zoopharmacognosy; Practical Syllabus for Semester VI Course code: USZOP06: COURSE 15	2. The learner shall understand fundamentals of enzyme structure, action and kinetics. The learner shall appreciate the enzyme assay procedures and the therapeutic applications of enzymes.
	3. Learner shall get an insight into the intricacies of chemical and molecular processes that affect genetic material. The course shall prepare learner to recognize the significance of molecular biology as a basis for the study of other areas of biology and biochemistry. Learner shall also understand related areas in relatively new fields of genetic engineering and biotechnology.
	4. Learner will understand the different factors affecting environment, its impact and environment management laws.



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COURSE OUTCOMES OF B.Sc. BOTANY

SEMESTER I	PAPER I PLANT DIVERSITY USBO101	Understand the diversity among Algae,Fungi & Bryophytes ,Also know the systematic ,structure ,morphology of Algae,Fungi ,Bryophytes
		Know the economic importance of Algae & Fungi
		To understand range of thallus in Chlorophyta & Variety of Shapes of Chloroplasts seen in chlorophyta
		To understand nutrition in Fungi
	PAPER II FORM AND FUNCTION I USBO102	To understand the basic unit of life - Cell & its Organelle,Structure & Organization of Cell membrane
		To understand interactions taking place in the ecosystem & energy flow in an Ecosystem .
		Learners learn Biomes of the World ,Ecological Pyramids.
		To understand Phenomenon of Inheritance,Mendelism,Post Mendelian Genetics,Different types of Gene interaction,Multiple Alleles
SEMESTER II	PAPER I PLANT DIVERSITY USBO201	To understand the Morphological diversity of Pteridophytes & Gymnosperms
		Become aware of applications of different plants in various industries.
		To highlight the potential of these studies to become an entrepreneur
		To Understand the morphology of various parts of flowering plants & Taxonomy
		Learn the taxonomical terminology
	PAPER II FORM AND FUNCTION I USBO202	To understand tissue system in Plants,Internal structure of surrounding plants
		To understand the process of Photosynthesis in higher plants with particular emphasis on light & Dark reactions,
		Learn differences among C3,C4 and CAM plants
		Gain knowledge of Herbal medicines & their use in treating various ailments.
SEMESTER- III	Paper I Plant DiversityUSBO301	To Know the systematics, morphology, structure and life cycle of Phaeophyta.
		Know the conceptual development of “taxonomy” and “systematics”



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	<p>Understand the Phylogeny of Angiosperms -A general account of the origin of Angiosperms.</p> <p>Able to understand preservation of plant materials and understand the Principle, working and applications of modern techniques viz, Microscopy, Chromatography and Electrophoresis.</p> <p>Know the taxonomic position, Occurrence, thallus structure, reproduction of Bryophytes.</p>
Paper II Forms and Function-II USBO302	<p>To Gain knowledge of "Cell Science".</p> <p>The eukaryotic cell cycle ,mitotic and meiotic cell division</p> <p>Learn the scope and importance of Molecular Biology.</p> <p>Understand the Chromosomal Aberrations & study various Syndromes observed in Human Population.</p> <p>Understand organelles heredity.</p> <p>Understand the biochemical nature of nucleic acids, their role in living systems, experimental evidences to prove DNA as a genetic material.</p> <p>Understand the process of synthesis of Proteins and role of genetic code in polypeptide.</p> <p>Gain knowledge about the mechanism and essential component required for prokaryotic and eukaryotic DNA replication.</p>
Paper III Current Trends in Plant Sciences- IUSBO303	<p>Understand the Indian pharmacopoeia.</p> <p>Understand the various secondary metabolites, their sources, uses and adulterants.</p> <p>Understand the various types of forest and vegetation in India.</p> <p>Augementation in knowledge and their uses of various economic plants in India.</p> <p>Become aware of applications of different plants in various industries.</p> <p>To equip the students with skills related to laboratory as well as industries based studies.</p> <p>Understand the Chemical contents of the plant products.</p> <p>To highlight the potential of these studies to become an entrepreneur.</p> <p>Understand the role of plants in human welfare.</p>



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SEMESTER- IV	Paper I Plant Diversity USBO401	Understand Identification & Control measures of Plant diseases.
		Understand and able to identify the various types of lichens & to know uses
		Understand and know the basic silent features and classification of Pteridophyta.
		Understand the Geological time scale and types of fossils.
		Understand the importance of Gymnosperms to Human welfare
		Know the concept of methodology in taxonomy and various Classification systems.
	Paper II Forms and Function-II USBO402	Know the scope and importance of the discipline.
		Understand Plant communities and ecological adaptations in plants.
		Gain knowledge about "Cell Science".
		Understand the Biochemical nature of cell.
		Understand the different types of interaction in Biomolecules.
		Know importance and scope of plant physiology.
		Understand the respiration in higher plants with particular emphasis on aerobic and anaerobic respiration.
		Gain the knowledge of plants response mechanism.
	Paper III Current Trends in Plant Sciences-I USBO403	Understand the role plants in human welfare as well as ecology.
		Gain knowledge about various environment cycles and their impact on eco-system as well as human-life.
		To Understand branches of Horticulture ,Gardening Skills and types of Garden
		To know various National parks and Botanical Gardens.
Understand the fundamentals of Recombinant DNA Technology.		
Understand the basic concepts of Statistics & apply them		
USBO403	Understand the principle and basic protocols for Plant Tissue Culture.	
	Understand the PTC knowledge and its important in conservation of various RET plants.	



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		Gain the knowledge about collecting, analysing and interpreting data.
		Gain the applied knowledge of unprecedented IT tools.
		Understand the data organization and tools in Bioinformatics.



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COURSE OUTCOMES OF B.Sc. I.T.

Sem-I	USIT101 Core Subject Imperative Programming 2 USIT102 Core Subject Digital Electronics 2 USIT103 Core Subject Operating Systems 2 USIT104 Core Subject Discrete Mathematics 2 USIT105 Ability Enhancement Skill Course Communication Skills	1) To think analytically, creatively and critically in developing robust,extensible and highly maintainable technological solutions to simple and complex problems.
		2)To apply their knowledge and skills to be employed and excel in IT professional careers and to continue their education in IT and related post garduates programmes.
		3)To work effectively as a part of a team to achieve a common stated goal.
		4)To communicate effectively with a range of audiences both technical and non-technical.
Sem-II	USIT201 Core Subject Object oriented Programming 2 USIT202 Core Subject Microprocessor Architecture 2 USIT203 Core Subject Web Programming 2 USIT204 Core Subject Numerical and Statistical Methods 2 USIT205 Ability Enhancement Skill Course Green Computing 2	1)To adhere to the highest standards of ethics, including relevant industry and organizational codes of conduct.
		2)To develop an aptitude to engage in continuing professional development.
		3)To be capable of managing complex IT projects with consideration of the human, financial and environmental factors
		4)To make the students employable and impart industry oriented training.
		5)To be fundamentally strong at core subject of Information Technology.
sem III	USIT105 Ability Enhancement Skill Course Communication Skills USIT301 Skill Enhancement Course Python Programming 2 USIT302 Core Subject Data Structures 2 USIT303 Core Subject Computer Networks 2 USIT304 Core Subject Database Management Systems 2 USIT305 Core Subject Applied Mathematics 2	1)Offers focus on core computer subjects and mathematical and statistical models.
		2) To understand the network protocols, architectures.
		3)able to apply knowledge of Software Defined Networking as per industry standards.
		4)To provide students with theoretical knowledge and practical skills in advanced topics in database systems,
sem IV	USIT401 Skill Enhancement Course Core Java 2	1)Understand basic components and functionalities of Embedded System including its hardware



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	USIT402 Core Subject Introduction to Embedded Systems 2 USIT403 Core Subject Computer Oriented Statistical Techniques 2 USIT404 Core Subject Software Engineering 2 USIT405 Core Subject Computer Graphics and Animation 2	2)The course is designed to enable students, to understand and implement JAVA in industry. 3)Effectively achieve collaboration of various technologies in Embedded System and enable the same using software programming like Python, Embedded C 4)Able to use efficient soft skills for professional development.
sem V	USIT501 Software Project Management 2 USIT502 Internet of Things 2 USIT503 Advanced Web Programming 2 USIT504 Artificial Intelligence 2 USIT507 Next Generation Technologies 2	1)Broad understanding of latest technological trends. 2)Design and executive projects in IoT with Automatic Identification and Data Capture. 3)to understand and implement IoT in industry. 4)To apply programming and computational skills for industrial solutions.
sem VI	USIT601 Software Quality Assurance 2 USIT602 Security in Computing 2 USIT603 Business Intelligence 2 USIT605 Enterprise Networking USIT606 IT Service Management 2	1)Inclusion of Project as part of the internal assessment is an attempt to translate theory into practice. 2)To Expand Students, view and introduce advanced topics and Business Intelligence. 3)Focus on using open source softwares. 4)Understand and develop analytics for social media data.



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COURSE OUTCOMES OF B.Sc. C.S.

Semester I	USCS101 Digital System Architecture	To understand computer architecture
		Comprehend the basic digital electronics
		To learn the computer instruction set
		Obtain a clear understanding of data transfer between processor and I/O devices
Semester I	USCS102 Programming With Python	To learn the design of python program structure
		Explore the components of python program
		To construct an application with variables and data types
		Learn and understand the different programming constructs and built in data structures
Semester I	USCS103 Linux Operating system	Work with linux file system
		Understand Linux security systems and how to handle shell
		Use of Linux editors
		Install softwares and develop programs in c/python in Linux platform
Semester I	USCS104 Open Source Technologies	Understand open-source philosophy, methodology and ecosystem
		Awareness with Open-Source Technologies
		Recognize the applications, benefits and features of Open-Source Technologies
		Gain knowledge to start, manage open-source projects
Semester I	USCS105 Discrete Mathematics	The purpose of the course is to familiarize the prospective learners with mathematical structures that are fundamentally discrete
		This course will enhance prospective learners to reason and ability to articulate mathematical problems.
		Understand, construct and solve simple mathematical problems.
		Solve puzzles based on counting principles.
Semester I	USCS106 Descriptive Statistics	To develop the learners ability to deal with different types of data
		To develop ability to analyze statistical data through R software.
		Organize, manage and present data.
		Study the relationship between variables using techniques of correlation and regression
Semester I	USCS107 Soft Skills	Understand the significance and essence of a wide range of soft skills.



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		Learn how to employ soft skills to improve interpersonal relationships
		Learners will be able to understand Leadership Qualities and Ethics.
		Learners will develop skills for Academic and Professional Presentations.
Semester II	USCS201 Design & Analysis of Algorithms	To make students understand the basic principles of algorithm design
		To give idea to students about the theoretical background of the basic data structures
		Students should be able to appreciate the use of various data structures as per need
		To select, decide and apply appropriate design principle by understanding the requirements of any real life problems.
Semester II	USCS202 Advanced Python Programming	To learn about reading, writing and implementing other operation on files in Python.
		To implement threading concept and multithreading on Python
		Ability to work with files and perform operations on it using Python.
		Ability to implement exception handling in Python applications for error handling.
Semester II	USCS203 Introduction to OOPs using C++	Work with numeric, character and textual data and arrays.
		Understand the importance of OOP approach over procedural language.
		Understand how to model classes and relationships using UML.
		Handle basic file operations.
Semester II	USCS204 Database Systems	To make students aware fundamentals of database system.
		To experience the students working with database using MySQL.
		Handle data permissions.
		To appreciate the importance of database design.
Semester II	USCS205 Calculus	The course is designed to have a grasp of important concepts of Calculus in a scientific way.
		It covers topics from as basic as definition of functions to partial derivatives of functions in a gradual and logical way.
		Develop mathematical skills and enhance thinking power of learners



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		Appreciate real world applications which uses the learned concepts
Semester II	USCS206 Statistical Methods	To make learner aware about basic probability axioms and rules and its application.
		To understand the concept of conditional probability and Independence of events.
		Apply non-parametric test whenever necessary.
		Conduct and interpret one-way and two-way ANOVA.
Semester II	USCS207 E-Commerce & Digital Marketing	Understand the core concepts of E-Commerce.
		Understand the various online payment techniques
		Understand the core concepts of digital marketing
		Apply digital marketing through different channels and platforms
Semester III	USCS301 Theory of Computation	Understand Grammar and Languages
		Learn about Automata theory and its application in Language Design
		Learn about Turing Machines and Pushdown Automata
		Understand Linear Bound Automata and its applications
Semester III	USCS302 Core Java	Object oriented programming concepts using Java.
		Knowledge of input, its processing and getting suitable output.
		Understand, design, implement and evaluate classes and applets.
		Knowledge and implementation of AWT package
Semester III	USCS303 Operating System	Learners must understand proper working of operating system
		provide a sound understanding of Computer operating system
		To provide a understanding of operating system, its structures
		Develop and master understanding of algorithms
Semester III	USCS304 Database Management Systems	Master concepts of stored procedure and triggers and its use.
		Learn about using PL/SQL for data management
		Understand concepts and implementations of transaction management
		Understand concepts and implementations of crash recovery
Semester III	USCS305 Combinatorics and Graph Theory	Appreciate beauty of combinatorics
		Understand the combinatorial features in real world situations and Computer Science applications.
		Apply combinatorial and graph theoretical concepts



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		To understand Computer Science concepts and apply them to solve problems
Semester III	USCS306 Physical Computing and IoT Programming	Enable learners to understand System On Chip Architectures.
		Introduction and preparing Raspberry Pi with hardware and installation.
		Learn physical interfaces and electronics of Raspberry Pi and program them using practical's
		Learn how to make consumer grade IoT safe and secure with proper use of protocols.
Semester III	USCS307 Web Programming	To develop and implement client-side and server-side scripting language programs.
		To develop and implement Database Driven Websites.
		Design and apply XML to create a markup language
		To design valid, well-formed, scalable, and meaningful pages using emerging technologies
Semester IV	USCS401 Fundamentals of Algorithms	To understand how to implement algorithms in Python
		To understand how to transform new problems into algorithmic problems with efficient solutions
		To understand algorithm design techniques for solving different problems
		To understand basic principles of algorithm design
Semester IV	USCS402 Advanced Java	Understand the concepts related to Java Technology
		Explore use of Java Server Programming
		should be able to perform java programs and create java based projects
		Understand use of Java Server Programming
Semester IV	USCS403 Computer Networks	Learner will be able to understand the concepts of networking
		Useful to proceed with industrial requirements
		Useful to proceed with International vendor certifications.
		Students should understand the framework and working of communication networks
Semester IV	USCS404 Software Engineering	Students should understand concepts of software Engineering
		Learner will be able to understand Software Project Management
		Learner will be able to understand Risk Management in software
		Learner will be able to understand Software Testing and Software Quality Assurance



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Semester IV	USCS405 Linear Algebra using Python	Appreciate the relevance of linear algebra in the field of computer science.
		Understand the concepts through program implementation
		Install a computational thinking while learning linear algebra.
		To offer the learner the relevant linear algebra concepts through computer science applications
Semester IV	USCS406 .Net Technologies	Understand the .NET framework
		Develop a proficiency in the C# programming language
		Proficiently develop ASP.NET web applications using C#
		Use ADO.NET for data persistence in a web application
Semester IV	USCS407 Android Developer Fundamentals	Understand the requirements of Mobile programming environment.
		Learn about basic methods, tools and techniques for developing Apps
		Explore and practice App development on Android Platform
		Develop working prototypes of working systems for various uses in daily lives.
Semester V	USCS501 Artificial Intelligence	Artificial Intelligence (AI) and accompanying tools and techniques bring transformational changes in the world
		This course aims to introduce the learner to the world of AI
		Learner should get a clear understanding of AI and different search algorithms used for solving problems.
		The learner should also get acquainted with different learning algorithms and models used in machine learning.
Semester V	USCS503 Software Testing and Quality Assurance	Understand various software testing methods and strategies.
		Understand a variety of software metrics, and identify defect
		Design SQA activities, SQA strategy, formal technical review report for software quality control and assurance.
		To provide skills to design test case plan for testing software
Semester V	USCS504 Information and Network Security	Understand the principles and practices of cryptographic techniques
		Understand a variety of generic security threats and vulnerabilities



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		Understand various protocols for network security to protect against the threats in a network
		To identify & analyze particular security problems for a given application
Semester V	USCS506 Web Services	Emphasis on SOAP based web services and associated standards such as WSDL
		Design SOAP based / RESTful / WCF services
		Deal with Security and QoS issues of Web Services
		To learn how to implement and deploy web service client and server.
Semester V	USCS507 Game Programming	Learner should study Graphics and gaming concepts
		Learner should get the understanding computer Graphics programming using Directx or Opengl.
		Learner should also aware of GPU, newer technologies
		Learner should be a part of community and learn.
Semester VI	USCS601 Wireless Sensor Networks and Mobile Communication	Learner should be able to list various applications of wireless sensor networks
		Learner should be able to conceptualize and understand the framework
		Learner should implement and evaluate new ideas for solving wireless sensor network design issues
		Student should describe the concepts, protocols, design, implementation and use of wireless sensor networks.
Semester VI	USCS603 Cyber Forensics	The student will be able to plan and prepare for all stages of an investigation
		To understand the procedures for identification, preservation
		To understand extraction of electronic evidence, auditing and investigation of network
		To understand host system intrusions, analysis and documentation of information gathered
Semester VI	USCS605 Digital Image Processing	To study two-dimensional Signals and Systems.
		To understand image fundamentals and transforms necessary for image processing
		Evaluate the techniques for image enhancement and image segmentation.
		Learner will be familiar with basic image processing techniques for solving real problems
Semester VI	USCS606 Data Science	Understanding basic data science concepts



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		Learning to detect and diagnose common data issues, such as missing values, special values, outliers, inconsistencies, and localization.
		Learner should be able to define suitable statistical method to be adopted.
		Making aware of how to address advanced statistical situations, Modeling and Machine Learning.
Semester VI	USCS607 Ethical Hacking	To understand the methodologies and techniques of hackig
		To understand the ethics, legality of hacking
		Learner will know to identify security vulnerabilities and weaknesses in the target applications.
		To understand the impact of hacking in real time machines.



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COURSE OUTCOMES OF B.B.I.

Semester	All Subjects / Course	Objective of teaching the subject / Outcome expected (Minimum 4 outcomes)
V	Financial Reporting and Analysis	To learn the concepts and preparation of Final Accounts of Banking Companies
		To learn the concepts and preparation of Final Accounts of Insurance Companies
		To learn the concepts and preparation of Final Accounts of Corporates
		To study the analysis of Cashflows and the Ethical behavior of Accountants
V	Auditing I	To enable students to get acquainted with the various concepts of Auditing
		To introduce students to the different techniques used for auditing
		To ensure students understand & practice the various techniques of Auditing
		To study the concept of Internal Audit
V	Research Methodology	Introducing students to the concept of Research
		Describe data processing and processing
		Introduction and application of Advanced Statistical Techniques.
		Acquainting students to the concept of Research writing
V	Financial Services Management	To understand different types of financial services & its history
		To learn about shares, mutual funds, forfeiting & factoring, depositories & pledge
		To understand process of Securitization & derivatives
		To study about consumer finance & housing finance
V	Business Ethics & Corporate Governance	To Implement Ethical Values in working culture
		To acquaint the students with the Theories related to Ethical business and its execution in organisation
		To understand the importance of Corporate Governance and the SEBI and Various Committee Guidelines
		Critically evaluate the Corruption, frauds and scam happening globally
V	International Banking & Finance	To understand the concepts and functioning of banking at an international level.
		To study the financial concepts and framework from an international perspective
		To learn the type of risk and to analyse the same



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		To understand the role of banks in maintaining financial and currency stability.
VI	Central Banking	To study the concept, history, functions of central banks
		To understand the role & policy framework of RBI
		To understand the legal regulations & supervisory role of RBI
		To study the Central Banks of Different Countries
VI	Security Analysis & Portfolio Management	To acquaint the learners with various concepts of finance.
		To understand the terms which are often confronted while reading newspaper, magazines etc for better correlation with the practical world.
		To understand various models of security and portfolio analysis.
		To understand various techniques of security and portfolio analysis.
VI	Auditing II	To enable students to get acquainted with the various concepts of Auditing
		To introduce students to the different techniques used for auditing
		To ensure students understand & practice the various techniques of Auditing
		To study the concept of Internal Audit
VI	HRM	i) To understand the conceptual framework of Human Resource Management
		ii) To understand various HR functions such as Planning and Recruitment
		iii) To understand role of HR in Training and Development
		iv) To study the determination of Compensation Structure and its various parameters
VI	Marketing in Banking & Insurance	Understanding & application of Marketing concepts in the field of Banking & Insurance
		Evaluate the strategies of marketing in the service sector of Banking & Insurance
		Aquaint the students with the Rural Markets of India
		Implementation of Modern technologies and Electronic Technologies in the field of Marketing
VI	Project Work	To inculcate the elements of research analyse.
		To inculcate the elements of scientific temperament challenging.
		To enquire and ability to interpret particular aspect of the study.



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		Make the awareness among the learners about the methodology of formulation, preparation and evaluation pattern of the project work.
III	Information Technology in Banking and Insurance- I	1) Acquaint students with concepts of E-commerce
		2) Understand E-banking and its features.
		3) Describe the use and application of MS-word and MS-Excel.
		4) .Making students aware of various cyber threats and laws
III	Organisational Behaviour	To understand the conceptual framework of the discipline of OB and its practical applications
		To deeply understand the role of individual, groups and structure in achieving organizational goals
		To critically evaluate and analyze various theories and models of the discipline of OB
		To accept different people from different cultural and diverse background in the workplace
III	Direct Tax	To understand the provisions of determining residential status of individual.
		To study various heads of income.
		To study deductions from total income.
		To compute taxable income of individuals.
III	Financial Markets	To introduce students with the Indian Financial System.
		To understand the Commodity Market.
		Aquaint the students with the Financial Markets in India. Meaning, History & Origin, and Elements of Derivatives Market.
III	Management Accounting	i) To understand the Vertical Balance Sheet & Revenue Statement Account
		ii) To study Common Size Comparative Statement, Trend Analysis
		iii) To understand the ratios carried out by company
		iv) To manage Working Capital Management
III	Financial Management	i) To understand the financial management
		ii) To understand the EVA of the firm
		iii) To evaluate Capital Budgeting of a firm
		iv) To understand Dividend Policy
III	Foundation course An Overview of Banking Sector	1)The learners will be able to understand various services offered, risks faced by banks and also will understand banking innovations after nationalization.



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		<p>2) Students understand the concept of difference between retail banking and corporate banking. Students will also be able to understand the role played by Banking Ombudsman in protecting the consumers interest</p> <p>3) To develop understanding about the Universal Banking its products and services. It helps students to gain knowledge about the technology used in banking and its advantages</p> <p>4) Learners will explore the role of Micro Finance and Self Help Group in the development of economy. Learners will understand why Financial Inclusion is necessary for the economy and the measures undertaken by RBI for financial inclusion</p>
IV	Information Technology in Banking and Insurance- II	<p>1) Acquaint students with concepts of E-Banking business Models.</p> <p>2) Understand the E-Check- protocols and digital signature</p> <p>3) Describe the use and application of MS Powerpoint</p> <p>4) .Understanding EElectronically and payment systems.</p>
IV	Business Economics II	<p>To learn Macro Economic Analysis using Keynesian Framework</p> <p>To understand the concepts of money, inflation & effects of Monetary Policy</p> <p>To study the details of Government intervention, Fiscal Policies & Government Budget</p> <p>To learn the different models of open economy trade & other relevant topics of International Economics</p>
IV	Foundation Course IV (An overview of insurance sector)	<p>To study the concepts & policies related to life insurance</p> <p>To study the concepts & policies related to health insurance</p> <p>To study the concepts & policies related to home & vehicle insurance</p> <p>To study the concepts & policies related to logistics insurance</p>
IV	Financial Management II	<p>To understand the Estimation, Calculation and Management of Working Capital in India</p> <p>To study the management of the instruments and components of working capital</p> <p>To study the concept, types, and methods of budgeting and financial planning</p> <p>To study the financial policy, corporate strategy and types of risk</p>
IV		<p>To understand concept of CRM</p> <p>To understand implementation of CRM.</p>



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	Customer Relationship Management	<p>To provide insight into CRM marketing initiatives, customer service and designing CRM strategy.</p> <p>To understand new trends in CRM, challenges and opportunities for organisations.</p>
IV	Cost Accounting	<p>i) To understand the Cost Statement</p> <p>ii) To reconcile between cost accounting & financial statement</p> <p>iii) To calculate standard costs</p> <p>iv) To understand the concept of Marginal costing of a product</p>
IV	Corporate & Securities Law	<p>To understand the Company Law and the various types of companies</p> <p>To understand Securities Law and the working of the Share Market</p> <p>To understand working of Securities Contract Act with regards to Share Market</p> <p>To understand the working of the depository participants</p>
I	Financial Accounting	<p>Introducing students to the scope, objectives, and terminology of Accountancy</p> <p>To understand the classification of incomes and expenditures, and receipts and their accounting treatment</p> <p>To introduce students to the Accounting Standards</p> <p>To learn the accounting treatment of stock valuation, hire purchase and preparation of final accounts</p>
I	Environment and Management of Financial Services	<p>To introduce students with the Indian Financial System.</p> <p>To learn the Phases of Development of Banking and Insurance.</p> <p>To understand the Management, Regulation and Development of Banking and Insurance.</p> <p>Aquaint the students with Banking companies and RBI Acts and legal framework governing the insurance.</p>
I	Business Communication - I	<p>To introduce and understand the importance of Communication and Tactics of Communication in Business / Corporate World</p> <p>To emergence of communication as a key concept in the corporate and global world and to understand the impact on the Technological advancements on Communication</p> <p>To introduce and understand importance of Cultivating good Listening Skills</p> <p>To Teach Various types of the letter writing which is useful in this fast moving Global Corporate World such as Business Correspondence and Personal Correspondence</p>



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I	Principles of Management	i) To understand the nature of management, its principles, its importance and process
		ii) To understand the importance of co-ordination and controlling
		iii) To get knowledge of National and International Business Leaders in Banking and Insurance Sectors
		iv) To understand the organisational structure and heirarchy of various organisations
I	Quantitative Method I	1) Understand various ways of organizing and representing data.
		2) Acquaint students with concepts of measures of Central tendencies, and dispersion
		3) Apply concept of Co-variance, correlation, probability and decision theory.
		4) Understand Insurance and various concepts related to it.
I	Business Economics	To introduce students to the detailed concepts of demand analysis, supply and market Equilibrium
		To explain the various theories relating to production and their implications on business decisions
		To study the diverse concepts of cost as explained and used in economic literature
		To learn concepts of Market structure and various forms of competition that characterise the market.
I	Foundation Course I	To learn the provisions related to Consumer Rights
		To understnad the terms, articles and basis of the India Constitution
		To study the political structure of the Indian legal system
		To make students well rounded about other foundational topics beyond the purview of the specialisation subjects
II	Quantitative Method II	1) Acquaint students with testing of hypothesis.
		2) Analysis of different problems using Linear Programming Techniques
		3) Understand concept of Matrices, Determinants, ratio, proportion, and percentage
		4) .Describe Economic indicators and various applications of Statistics
II	Organisational Behaviour	To understand the conceptual framework of the of OB and its Models
		To deeply understand the role of individual, groups and structure in achieving organizational goals
		To study various theories of Motivation
VI		To understand organizational culture, & development
		Understanding & application of Marketing concepts in the field of Banking & Insurance



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	Marketing in Banking & Insurance	Evaluate the strategies of marketing in the service sector of Banking & Insurance
		Aquaint the students with the Rural Markets of India
		Implementation of Modern technologies and Electronic Technologies in the field of Marketing
II	Foundation Course II	To learn the concepts of LPG & B their impact on society
		To understand the concept, history & policies of Human Rights
		To learn about effects of ecosystem & its interactions to Human Behaviour
		To learn the causes, effects & management methods of Stress
II	Business Communication II	1) Familiarize students with presentation and give them idea about how to give oral presentation before stakeholder. Learners will know some dos and don'ts of good presentation and also about the audio and visual aids that can be used while making a presentation.
		2) Student would be ready for group discussion and interview. Student could be able to draft agenda, minutes and resolution of meeting. Student will learn how to handle the task of conducting conference. Learners will understand how good image can be developed with the help of PR measures
		3) To discuss various types of Business Correspondence / Learners will be able to write letters
		4) To discuss about Report writing / Learners will learn and write Reports and also be able to summarize the passage
II	Business Law	To study the importance and concepts of the Indian Constitution
		To introduce the concepts of contract law and their provisions as per Indian Contract Act 1872
		To explain the provisions and instruments as per The Negotiable Instruments Act 1881
		To introduce the concept of movable properties and their sale in a legal framework
II	Principles & Practices of Banking & Insurance	To study the evolution of International Banking and an overview of its functions
		To understand the functioning and aspects of the International Capital Market
		To explain the international lending operations, financial flows and currency markets
		To introduce the concept of risk, its analysis and the role of banks in this regard



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COURSE OUTCOMES OF B.M.S.

Semester	All Subjects / Course	Objective of teaching the subject / Outcome expected (Minimum 4 outcomes)
V	Investment Analysis & Portfolio Management	<p>To acquaint the learners with various concepts of finance.</p> <p>To understand the terms which are often confronted while reading newspaper, magazines etc for better correlation with the practical world.</p> <p>To understand various models of security and portfolio analysis.</p> <p>To understand various techniques of security and portfolio analysis.</p>
V	Direct Taxes	<p>To understand the provisions of determining residential status of individual.</p> <p>To study various heads of income.</p> <p>To study deductions from total income.</p> <p>To compute taxable income of individuals.</p>
V	Financial Accounting	<p>To acquaint the learners in preparation of final accounts of companies.</p> <p>To study provisions relating to underwriting of shares and debentures.</p> <p>To study accounting of foreign currency and investment.</p> <p>To understand the need of ethical behaviour in accountancy.</p>
V	Risk Management	<p>To familiarise the student with the fundamental aspects of risk management and control.</p> <p>To give a comprehensive overview of risk governance and assurance with special reference to insurance sector.</p> <p>To introduce the basic concepts, functions, process, techniques of risk management.</p> <p>To understand the need of ethical behaviour in accountancy.</p>
V	Service Marketing	<p>To understand distinctive feature of services and key elements in services marketing.</p> <p>To provide insight into ways to improve service quality.</p> <p>To understand marketing of different services in indian context.</p> <p>To provide insight into ways to improve productivity.</p>
V	E-Commerce and Digital Marketing	<p>To understand increasing significance of E-commerce and its applications in business and various sectors.</p> <p>To provide insight into ways to improve service quality and productivity.</p> <p>To understand latest trends and practices in E-commerce and digital marketing, alongwith its challenges and opportunities for an organisation.</p>



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		Build and Develop E-Commerce Website
V	Sales & Distribution management	<p>To develop understanding of the sales & distribution processes in organisations.</p> <p>To get familiarised with concepts in sales management.</p> <p>To get familiarised with approaches and the practical aspects of the key decision making variables in sales management.</p> <p>To get familiarised with concepts in distribution channel management.</p>
V	Customer Relationship Management	<p>To understand concept of CRM</p> <p>To understand implementation of CRM.</p> <p>To provide insight into CRM marketing initiatives, customer service and designing CRM strategy.</p> <p>To understand new trends in CRM, challenges and opportunities for organisations.</p>
V	Finance for HR Professionals and compensation Management	<p>To orient HR professionals with financial concepts to enable them to make prudent HR decisions.</p> <p>To understand the various compensation plans.</p> <p>To study the issues related to compensation management.</p> <p>To understand the legal framework of compensation management.</p>
V	Performance Management and Career Planning	<p>To understand the concept of performance management in organisations.</p> <p>To review performance appraisal systems.</p> <p>To understand the significance of career planning and practices.</p>
V	Industrial Relations	<p>To understand the concept of performance management in organisations.</p> <p>To review performance appraisal systems.</p> <p>To understand the significance of career planning and practices.</p> <p>To study about various acts related to Labours & Trade Unions</p>
V	Corporate Communication & Public relations	<p>To provide the students with basic understanding of the concepts of corporate communication and public relations.</p> <p>To introduce the various elements of corporate communication and consider their roles in managing organisations.</p> <p>To examine how various elements of corporate communication must be coordinated to communicate effectively.</p> <p>To develop critical understanding of the different practices associated with corporate communication.</p>
V	Logistic and Supply Chain Management	<p>1) To understand the basics of supply chain- Customer satisfaction and demand forecasting</p> <p>2) Explain the elements of logistics mix</p>



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		<p>3) Develop understanding of Green logistics and Reverse logistics</p> <p>4) Understand the concept of Modern Logistic infrastructure and global environment in logistics</p>
V	Strategic Human Resource Management & HR Policies	<p>To understand HRM from a Strategic Perspective.</p> <p>To link HRM functions to Corporate Strategies in order to understand HR as a Strategic Resource</p> <p>To Understand the relationship between SHRM & Organizational Performance</p> <p>To Apply the theories & concepts relevant to SHRM in contemporary Organization</p>
VI	Operations Research	<p>1) To understand the basics and area of application of Operations Research</p> <p>2) Analyze problems with Linear Programming</p> <p>3) Understand the concept of Transportation and Assignment Model</p> <p>4) Acquaint students with concept of Network Analysis</p>
VI	International Finance	<p>To familiarise the student with the fundamental aspects of various issues related with international finance.</p> <p>To give a comprehensive overview of international finance as a separate area in international business.</p> <p>To introduce the basic concepts, functions, process, techniques and create an awareness of the role, functions and functioning of international finance in this globalised market.</p>
VI	Indirect Taxes	<p>To understand the provisions of determining goods and service tax.</p> <p>To study various Levy & Collection of GST.</p> <p>To study deductions i.e Input Tax Credit.</p> <p>To compute amount payable as GST.</p>
VI	Project Management	<p>To familiarise the learners with the fundamental aspects of various issues associated with Project Management</p> <p>To give a comprehensive overview of Project Management as a separate area of Management</p> <p>To introduce the basic concepts, functions, process & techniques</p> <p>To create an awareness of roles, functions & functioning of Project Management</p>
VI	Brand Management	<p>To understand the meaning & significance of brand management</p> <p>To know how to build, sustain & grow brands</p> <p>To know various sources of Brand Equity</p> <p>To interpret the performance of Brands</p>
VI		To understand the concept of Indian Ethos in Management



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	Indian Ethos in Management	<p>To link the Traditional Management system to Modern Management System</p> <p>To understand the techniques of Stress Management</p> <p>To understand the evolution of Learning Systems in India</p>
VI	Strategic Financial Management	<p>To match the needs of current market scenario and upgrade the learner's skills and knowledge for long term sustainability.</p> <p>Changing scenario in Banking Sector and the inclination of learners towards choosing banking as a career option has made study of financial management in banking sector inevitable.</p> <p>To acquaint learners with contemporary issues related to financial management.</p> <p>To understand the Shareholder Value and Corporate Governance/Corporate Restructuring.</p>
VI	Retail Management	<p>To familiarize the students with retail management concepts and operations.</p> <p>To provide understanding of retail management and types of retailers.</p> <p>To develop an understanding of retail management terminology including merchandize management, store management and retail strategy.</p> <p>To acquaint the students with legal and ethical aspects of retail management.</p>
VI	International Marketing	<p>To understand International Marketing, its Advantages and Challenges.</p> <p>To provide an insight on the dynamics of International Marketing Environment.</p> <p>To understand the relevance of International Marketing Mix decisions.</p> <p>To familiarize with the recent developments in Global Market.</p>
VI	Workforce Diversity	<p>To understand the nature of workforce diversity.</p> <p>To familiarize the learners with the strategies to deal with work force diversity.</p> <p>To understand the impact of technology in managing workforce diversity.</p> <p>To be able to interlink between workforce diversity and HRM functions.</p>
VI	HRM in Global Perspective	<p>To introduce the students to the study and practice of IHRM.</p> <p>To understand the concepts, theoretical framework and issues of HRM in Global Perspective.</p> <p>To get insights of the concepts of Expatriates and Repatriates.</p> <p>To find out the impact of cross culture on Human Resource Management.</p>
VI		<p>To understand Media Planning, Strategy and Management with reference to current business scenario</p>



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	Media Planning and Management (Marketing)	<p>To know the basic characteristics of all media to ensure most effective use of Advertising budget</p> <p>To provide an insight on Media Planning, Budgeting, Scheduling and Evaluating the different Media Buys</p> <p>To provide an insight on Development in International Marketing - Media Measurement, Benchmarking Metrics, Plan Metrics</p>
VI	Organisational Development (HR)	<p>To understand the concept of Organisational Development as its Relevance in the organisation</p> <p>To Study the Issues and Challenges of OD while undergoing Changes</p> <p>To get and Understanding of Phases of OD Programme</p> <p>To Study the OD Intervention to meet the Challenges faced in the Organisation</p>
VI	Project Work	<p>To inculcate the elements of research analyse.</p> <p>To inculcate the elements of scientific temperament challenging.</p> <p>To enquire and ability to interpret particular aspect of the study. Make the awareness among the learners about the methodology of formulation, preparation and evaluation pattern of the project work.</p>
III	Organisation Behaviour & Human Resource Management	<p>To introduce the basic concepts, functions and processes & create an awareness of the role, functions and functioning of Organizational Behaviour.</p> <p>The course aims to give a comprehensive overview of Organization Behaviour as a separate area of management.</p> <p>To introduce the basic concepts, functions and processes & create an awareness of the role, functions and functioning of Human Resource Management.</p> <p>The objective of this course is to familiarize the student with the fundamental aspects of Various issues associated with Human Resource Management as a whole.</p>
III	Information Technology in Business Management-I	<ol style="list-style-type: none"> 1) To understand application and use of MS Office 2) Making students aware of various cyber threats and laws 3) Understanding applications of Email, and Internet 4) To describe the IT Support in Management
III	Business Planning & Entrepreneurial Management	<ol style="list-style-type: none"> 1) Understand the function of the entrepreneur in the successful, commercial application of innovations 2) Identify personal attributes that enable best use of entrepreneurial opportunities. 3) Understand various steps involved in starting a venture and to explore marketing methods & new trends in entrepreneurship.



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		4) Introduce students to the basic steps required to plan, start and run a business
III	Strategic Management	<p>To learn the management policies & strategies at every level to develop conceptual skills in this area as well as their applications in corporate world.</p> <p>To critically examine the management of the entire enterprise from the top management view point</p> <p>To deal with corporate level policy & strategy formulation areas.</p> <p>To learn about various models used for strategic implementation.</p>
III	Corporate Finance	<p>The objectives are to develop a conceptual framework of finance function.</p> <p>The course aims at explaining the core concepts of corporate finance and its importance in managing a business.</p> <p>To providing understanding of nature, importance, structure of corporate finance related areas and to impart knowledge regarding source of finance for a business.</p> <p>Acquaint the participants with the tools techniques and process of financial management in the realm of financial decision making.</p>
III	Introduction to Cost Accounting	<p>i) To understand the Cost Statement</p> <p>ii) To reconcile between cost accounting & financial statement</p> <p>iii) To calculate standard costs</p> <p>iv) To understand the concept of Marginal costing of a product</p>
III	Consumer Behaviour	<p>1) To explain the elements constituting Human Behaviour and their relevance towards consumption and purchase / Learners will pick up the concept of Consumer Behaviour, types of Consumers, Diversity of Consumers.</p> <p>2) To discuss the traits and trends in consumer behaviour, and apply them to the marketing of products and services / Learners will acquire basic knowledge about issues and dimensions of Consumer Behaviour.</p> <p>3) To describe the marketing programs and strategies while keeping in mind factors that may influence consumer behaviour. / Learners would develop their skill of understanding and analyzing consumer information and using it to create consumer oriented marketing strategies.</p> <p>4) To identify consumer decision making models and trends. / Learners will identify consumer decision making process and its applications in marketing function.</p>
III	Advertising	1) To discuss the advertising as an element of marketing communications / Learners will recognize and examine the



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		<p>growing need and importance of advertising, Theories of Advertising.</p> <p>2) To explain how the advertising planning process is managed with its key constituents and formats / Learners will emphasize the construction of an effective advertisement and able to articulate Advertising Planning process and Strategy.</p> <p>3) To enlighten students about the laws and ethical practices in advertising and its management / Learners will comprehend Ethics and Laws in Advertising and the Social and Economic Impact of Advertising on society.</p> <p>4) To explore the recent trends in advertising and career opportunities in advertising / Learners will explore the current trends in advertising and career opportunities available in advertising.</p>
III	Foundation Course - III (Environmental Management)	<p>To teach importance of Environment and ways to Protect it</p> <p>To teach different Biogeochemical Cycles, Ecosystem & Ecology and Resources exist in Environment</p> <p>To teach how to protect environment and Mother Earth from degradation and ways to overcome from it</p> <p>To teach importance of Environmental Sustainability and innovations in Green Businesses</p>
III	Recruitment & Selection (HR)	<p>To familiarize the Students with concepts and principles, Procedures of Recruitment & Selection in an Organization.</p> <p>To give in an dept insight into various aspects of Human Resource Management and make them acquainted with practical aspect of the Subject.</p> <p>To teach the importance of importance and relevance of Recruitment, Job Analysis, Job Design, Source / Types of Recruitment</p> <p>To teach the importance and process of Selection, Screening, Interviewing and how to face the hurdles and how to overcome them in Selection Process</p>
III	Accounting for Managerial Decisions	<p>i) To understand the Vertical Balance Sheet & Revenue Statement Account</p> <p>ii) To study Common Size Comparative Statement, Trend Analysis</p> <p>iii) To understand the ratios carried out by company</p> <p>iv) To manage Working Capital Management</p>
IV	Information Technology in Business Management-II	<p>1) To understand the concept of Management Information System</p> <p>2) Explain the concepts of ERP</p> <p>3) Develop understanding of Database and Data warehouse</p> <p>4) Understand concept of Outsourcing</p>
IV		1) Gaining knowledge about managing production processes



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	Production & Total Quality Management	<p>2) Better understanding of modern production techniques.</p> <p>3) Better understanding of quality management</p> <p>4) Able to justify and understand philosophies/ contributions in Quality Management</p>
IV	Integrated Marketing Communication	<p>To equip the students with knowledge about the nature, purpose & complex construction in the planning & execution of an effective IMC programme</p> <p>To understand the various tools of IMC & the importance of coordinating them for an effective marketing communication program.</p> <p>To learn about various elements of IMC</p> <p>To Study the current Trends in IMC</p>
IV	Training & Development in HRM	<p>To understand how successful managerial performance helps to interpret the issues & modify the approach & behaviour of Superiors & Managers.</p> <p>To orient the students to tailor themselves to meet the specific needs of the organization in training & development activities.</p> <p>To understand various forms of On the Job Training & Off the Job Training</p> <p>To learn about various Traditional & Modern Methods of Performance Appraisal</p>
IV	Business Economics II	<p>To learn Macro Economic Analysis using Keynesian Framework</p> <p>To understand the concepts of money, inflation & effects of Monetary Policy</p> <p>To study the details of Government intervention, Fiscal Policies & Government Budget</p> <p>To learn the different models of open economy trade & other relevant topics of International Economics</p>
IV	Auditing	<p>To enable students to get acquainted with the various concepts of Auditing</p> <p>To introduce students to the different techniques used for auditing</p> <p>To ensure students understand & practice the various techniques of Auditing</p> <p>To study the concept of Internal Audit</p>
IV	Strategic Cost Management	<p>To develop the skills of analysis, evaluation and synthesis in cost and management accounting</p> <p>To study complex modern industrial organisations within which the various facets of decision making and controlling operations take place</p> <p>To learn the methods of Activity Based Management and Activity Based Budgeting</p> <p>To understand the computation of Variance Analysis and Responsibility Accounting</p>



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IV	Rural Marketing	<p>The objective of this course is to explore the students to the Agriculture and Rural Marketing environment so that they can understand consumer's and marketing characteristics of the same for understanding and contributing to the emerging challenges in the upcoming global economic scenario.</p> <p>The course aims to give a comprehensive overview of Rural Market in India.</p> <p>To understand the Rural Marketing Mix.</p> <p>To understand the Rural Marketing Strategies.</p>
IV	Foundation Course IV (Ethics and Governance)	<p>To understand significance of ethics and ethical practices in business which are indispensable for progress of a country</p> <p>To learn the applicability of ethics in functional area like Marketing, Finance and Human Resource Management</p> <p>To understand the emerging need and growing importance of good governance and CSR by organisations</p> <p>To Study the Ethical Business practices, CSR and Corporate Governance practiced by various organisations</p>
IV	Change Management (HR)	<p>To prepare students as Organizational Change facilitators using the knowledge and techniques of behavioural science</p> <p>To teach importance of Change and its impacts</p> <p>To teach Resistance to change - how to overcome it and how to manage role stress</p> <p>To teach effective implementation of Change in Organization with the help of Change Agents and effective Change Programs - with the help of Consultants and Leaders</p>
IV	Business Research Methods	<p>1) To evolve the analytical abilities and research skills among the students / Learners will investigate about the concept about Research, its types, significance, sources of collecting Primary Data and Secondary Data, its advantages and disadvantages</p> <p>2) To explore practical experience and learning in Business Research / Learners will comprehend Data Processing, Analysis and Interpretation</p> <p>3) To discuss advanced techniques of report writing / Learners will write Reports and identify types of research papers</p> <p>4) To explain the techniques of data collection and plagiarism testing / Learners will beware of plagiarism and practice ethical data collection</p>
I	Business Statistics	<p>1) To understand various ways of organizing and representing data.</p> <p>2) Acquaint students with concepts of measures of Central tendencies, and dispersion</p> <p>3) Apply concept of Co-variance, correlation, probability and decision theory.</p> <p>4) Understand Insurance and various concepts related to it.</p>



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I	Foundation of Human Skills	<p>To understand the human nature by learning about individual behaviour, personality, attitude, thinking, learning & perceptions.</p> <p>To learn about group dynamics, team effectiveness, power, politics, conflicts & their resolution from an organizational perspective</p> <p>To know about organizational culture</p> <p>To understand various theories of Motivation at workplace</p>
I	Introduction to Financial Accounts	<p>To equip the students with the concept of Accounting Principles, Conventions and Standrads.</p> <p>To know the Accounting Transaction in detail.</p> <p>To learn the methods of Depreciation Accounting & Trial Balance.</p> <p>To understand the Financial Statement of a Sole Proprietor.</p>
I	Business Law	<p>To study the importance and concepts of the Indian Constitution</p> <p>To introudce the concepts of contract law and their provisions as per Indian Contract Act 1872</p> <p>To explain the provisions and instruments as per The Negotiable Instruments Act 1881</p> <p>To introduce the concept of movable properties and their sale in a legal framework</p>
I	Business Communication - I	<p>To introduce and understand the importance of Communication and Tactics of Communication in Business / Corporate World</p> <p>To emergence of communication as a key concept in the corporate and global world and to understand the impact on the Technological advancements on Communication</p> <p>To introduce and understand importance of Cultivating good Listning Skills</p> <p>To Teach Various types of the letter writing which is useful in this fast moving Global Corporate World such as Business Correspondence and Personal Correspondence</p>
I	Business Economics	<p>To introduce students to the detailed concepts of demand analysis, supply and market Equilibrium</p> <p>To explain the various theories relating to production and their implications on business decisions</p> <p>To study the diverse concepts of cost as explained and used in economic literature</p> <p>To learn concepts of Market structure and various forms of competition that characterise the market.</p>
I	Foundation Course I	<p>To learn the provisions related to Consumer Rights</p> <p>To understnad the terms, articles and basis of the India Constitution</p> <p>To study the political structure of the Indian legal system</p>



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		To make students well rounded about other foundational topics beyond the purview of the specialisation subjects
II	Business Mathematics	<ol style="list-style-type: none"> 1) To understand concepts of Simple and compound interest and Annuity 2) Acquaint students with functions. 3) Understanding derivatives and its application 4) To develop understanding of Permutation Combination, and matrices and determinants
II	Business Environment	<ol style="list-style-type: none"> 1) Familiarize with the nature of business environment and its components. 2) Understand how different factors and trends in the external environment are likely to impact upon a proposed business venture 3) Understand business models and tools to evaluate changes in an organization's business environment 4) Describe what business operations encompass
II	Principles of Marketing	<p>To understand about market & learn its evolution To learn about Micro & Macro Marketing Environment, Marketing Research</p> <p>To study various Marketing Mix To understand Segmentation, Targeting, Positioning & also Trends in Marketing</p>
II	Foundation Course II	<p>To learn the concepts of LPG & B their impact on society To understand the concept, history & policies of Human Rights To learn about effects of ecosystem & its interactions to Human Behaviour To learn the causes, effects & management methods of Stress</p>
II	Industrial Law	<p>To introduce the provisions of the Industrial Dispute Act 1892 To explain the process for registration of Trade Unions To understand how the provident fund is useful for the betterment of employees To understand how Gratuity is paid by the employer to the employees</p>
II	Business Communication II	<ol style="list-style-type: none"> 1) Familiarize students with presentation and give them idea about how to give oral presentation before stakeholder. Learners will know some dos and don'ts of good presentation and also about the audio and visual aids that can be used while making a presentation. 2) Student would be ready for group discussion and interview. Student could be able to draft agenda, minutes and resolution of meeting. Student will learn how to handle the task of conducting conference. Learners will understand how good image can be developed with the help of PR measures



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		3) To discuss various types of Buisness Correspondence / Learners will be able to write letters 4) To discuss about Report writing / Learners will learn and write Reports and also be able to summarize the passge
II	Principles of Management	i) To understand the nature of management, its principles, its importance and process ii) To understand the importance of co-ordination and controlling iii) To understand the importance of Green Audit iv) To understand the practices followed by companies with regards to Corporate Social Responsibility



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COURSE OUTCOMES OF M.A. HISTORY

Semester	All Subjects / Course	Objective of teaching the subject / Outcome expected (Minimum 4 outcomes)
SEM-I	Research Methods in History Social, Economic and Administrative History of Early India (up to 1000 CE) Social, Economic and Administrative History of Early India (up to 1000 CE) Social, Economic and Administrative History of Medieval India (1200 CE – 1700 CE)	to teach students the basic scientific methodology and tenets as implemented in history writing.
		to enable students to understand with the evolution of socio cultural, religious and political processes in the early Indian past on basis of which the plural Indian society was formed.
		to enable students to understand with the evolution of sociocultural, religious and political processes in the early Indian past on the basis of which the plural Indian society was formed.
		to facilitate students with the evolution of socio-cultural, religious and political processes in Medieval Indian past and introducing them to important social, cultural ideas and institutions.
SEM-II	Philosophy of History History of Contemporary India (1947 – 2000 CE) Milestones in World History (1750 CE – 1960 CE) History of Emancipatory Movements in Modern World	to equip students with the trends of the comprehension of the past and to make them understand the relationship between Philosophy and History
		to equip students with main events and processes of PostIndependence Indian history
		To equip students with main events and processes of Modern World History
		to make students aware about social movements of the world and introducing her/him with main emancipatory movements of the modern world.
SEM-III	History, Culture and Heritage of Mumbai (1850 CE - 1990 CE) History of India's Maritime Heritage (16th and 17th Centuries) Indian National Movement (1857 CE to 1947 CE)	To introduce students to the field of urban history with a focus on the history of Mumbai. To promote research and to build up ties with research institutes and museums.
		To acquaint students with concepts of Maritime History. To explore the Maritime History and Heritage of India and study the importance of ports in the economic development of India.
		To understand the factors leading to the rise of Nationalism. To understand the constitutional development and the rise of new forces.



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	History of Colonial India (1755 CE - 1857 CE)	To orient students with the development of the colonial period between 1757 and 1857 CE. To highlight the transition of European trading companies into colonial powers in India. To enable students to understand the expansion and consolidation of the East India Company in India and to understand the emergence of new force in India as an impact of the colonial India.
	History of Modern Europe	To orient the students with political history of Modern Europe. To understand the economic transition in Europe during the 18th and 19th Century Europe. To understand the impact of the world war
SEM-IV	Sources in Historical Research	To understand the historiography and theory related to historical research, writing, and presentation. The course focuses on building basic skills for conducting historical research including locating, utilizing, and analysing sources. Guidelines for Citation and Historical Writing are discussed.
	Social Issues in Contemporary India	To explore social issues of Depressed classes in India and develop awareness about constitutional safeguards. To understand forms of exploitation of depressed classes. To promote studies with regard to social issues.



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COURSE OUTCOMES OF M.COM.

Part-I Sem-I	Business ethics and CSR	To familiarize the learners with the concept and relevance of Business Ethics in the Modern era
		To enable learners to understand the scope and complexity of Corporate Social responsibility in the global and Indian Context
		It focuses on the different philosophy of great International personalities, including Gandhian thought.
Part-I Sem -II	E-commerce	To understand the new and emerging trends of E-commerce to make your learners familiar with current challenges and issues in e-commerce
		To enable the learner to assess e-commerce requirements for a business
		legal and regulatory environment and security issues in e-commerce



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COURSE OUTCOMES OF M.Sc. I.T.

M.Sc. sem I	Course Code Course Title Credits PSIT101 Research in Computing 4 PSIT102 Data Science 4 PSIT103 Cloud Computing 4 PSIT104 Soft Computing Techniques 4	1) Ability to apply the knowledge of Information Technology with recent trends aligned with research and industry.
		2) Ability to apply IT in the field of Computational Research, Soft Computing, Big Data Analytics, Data Science, Image Processing, Artificial Intelligence, Networking and Cloud Computing.
		3) Ability to provide socially acceptable technical solutions in the domains of Information Security, Machine Learning, Internet of Things and Embedded System, Infrastructure Services as specializations.
		4) Ability to apply the knowledge of Intellectual Property Rights, Cyber Laws and Cyber Forensics and various standards in interest of National Security and Integrity along with IT Industry.
		5) Ability to write effective project reports, research publications and content development and to work in multidisciplinary environment in the context of changing technologies.
M.Sc. sem II	Course Code Course Title Credits PSIT201 Big Data Analytics 4 PSIT202 Modern Networking 4 PSIT203 Microservices Architecture 4 PSIT204 Image Processing 4	1) To understand the state-of-the-art in network protocols, architectures and applications.
		2) Analyze existing network protocols and networks. Develop new protocols in networking
		3) Acquire a working knowledge of Web application development using ASP.NET Core MVC 6 and Visual Studio
		4) Review the fundamental concepts of a digital image processing system.
		5) Analyze images in the frequency domain using various transforms.
M. Sc. sem III	PSIT301 Technical Writing and Entrepreneurship Development PSIT302a Applied	1) This course aims to provide conceptual understanding of developing strong foundation in general writing, including research proposal and reports.



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	<p>Artificial Intelligence PSIT303a Machine Learning PSIT304d Offensive Security</p>	<p>2) It covers the technological developing skills for writing Article, Blog, E-Book, Commercial web Page design, Business Listing Press Release, E-Listing and Product Description.</p> <p>3) To explore the applied branches of artificial intelligence</p> <p>4) To enable the learner to understand applications of artificial intelligence</p> <p>5) Understanding nature of problems solved with Machine Learning</p> <p>6) How to inspect, protect assets from technical and managerial perspectives. To Learn various offensive strategies to penetrate the organizations security.</p>
<p>M. Sc. sem IV</p>	<p>PSIT401 Blockchain PSIT402a Natural Language Processing PSIT403a Deep Learning PSIT404b Advanced Applications of Image Processing</p>	<p>1) To provide conceptual understanding of the function of Blockchain as a method of securing distributed ledgers, how consensus on their contents is achieved, and the new applications that they enable.</p> <p>2) To provide understanding of various NLP tasks and NLP abstractions such as Morphological analysis, POS tagging, concept of syntactic parsing, semantic analysis etc.</p> <p>3) To present the mathematical, statistical and computational challenges of building neural networks. To study the concepts of deep learning</p> <p>4) To apply the concepts to new areas of research in Image processing.</p>



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COURSE OUTCOMES OF M.Sc. C.S.

Semester I	Algorithm for optimization Software defined networking Applied signal and image processing Advanced Database technique	To be Fundamentally Strong in the core Computer Science Subjects
		Able understand fundamental research concepts
		Broad understanding of technological tools
		Identify opportunities for immediate employment
Semester II	Applied Machine and Deep learning	Preparing the individual for industry ready
	Natural Language Processing	Ability to handle basic language manipulation with extended logic to create new languages
	Web Mining	Research Analyse data from the web
	Embedded and IoT Technology	Design microprocessor based applications and establish communication between devices
Semester III	Cyber and information security, Business intelligence and Big data Analytics	Explore Core Computer Science Subjects
Semester IV	Simulation & Modelling	Prepare students for demands in ICT industry
	Cyber and cryptography	Offer specialization on special area
		Create research temper among students