



Programs: B.A.F Specific Program: B.A.F. Program Specific Outcome (PSO):

Develop an in-depth knowledge, understanding and skills in Accountancy and Finance.
 To develop essential skill set to cater to various positions in the financial sector.
 Be able to apply concepts and techniques of Accounting and Finance in organizational settings.

4. Build a strong foundation of knowledge in different areas through a combination of theoretical and practical study

. Outcome (COc):

Course Outcome (COs): Semester	Course-Code	Course Title	Course Outcome (in bullets)
		Financial	1. Students will revisit and strengthen fundamental accounting principles and processes, learn relevant
1 st	UC-FAF-101	Accounting I	accounting standards, accounting treatment for depreciation and other special transactions culminating in
			1. Understanding Costing Concepts and its usages. This helps ascertainment of cost, fixation of selling
	UC-FAF-102	Cost Accounting I	price, proper recording and presentation of cost data to management for measuring efficiency and
			for cost control and cost reduction, ascertaining the profit of each activity, assisting management in
	UC EAE 102	M F	1. Students will learn how the economy functions, how trade with the rest of the World affects the
	UC-FAF-103	Macro Economics	Country, different macro-economic models of different economists and how they apply to the real World and the role played by the Government and Central Banks in stabilizing the economy under different
			1. The above objective will help student to be a professional when it comes to working with the
			banking sector and corporates.
			2. There are well equipped with the hands-on skill for the Industry.
		Information	3. Making Students professional in a way that one can be qualified to be a Literate in the Field of
	UC-FAF-104	Technology	Information technology.
			4. Student will gain basic knowledge of Software and hardware along with Microsoft office Skills.
			5. Today we want our students to be market oriented so we have e module to know more about cyber-
			crime and technology with regards to handle misuse of internet.
		Foundation	1. Enhanced understanding of current challenges and issues of Indian society.
	UC-FAF-105	Course - I (Indian	2. A sensitized approach towards social problems plaguing Indian society ability to address the same.
	001111100	Society and State:	
		Contemporary	3. Increased awareness towards environmental issues.
			1. Role of law in economic, political and social context
		n · · · ·	2. Understand the legal and fiscal structure of different forms of business organizations and their
	UC- FAF-106	Business Law I	responsibilities as employer
			3. Relevance of law to individuals, business and organization 4. Understand the laws related to consumer protection
			 Understand the laws related to consumer protection. It will enable students to apply basic mathematical techniques to daily walks of like
		Business	 It will enable students to apply base matternatical techniques to dairy warks of fike It will enable students to understand how the finance industry carries out simple calculations
	UC-FAF-107	Mathematics and	3. It will empower students to understand how the introduction to statistics and how averages are used to
		Statistics I	compute variables.
2 nd	UC- FAF-201	Financial	1. The subject focuses on creating an in depth understanding of the concept of corporate accounting
2	UC- FAF-201	Accounting II	from a general perspective to a more specific one considering the application in all the organizations. It
	UC- FAF - 202	Cost Accounting	1. This course is not just about controlling the costs but also uses the information for managerial
		П	decision making. The fundamental objective of strategic cost management and its methods is to gain a
			 Student will understand the audit process from the engagement planning stage through completion of the audit, as well as the rendering of an audit opinion via the various report options.
			 Student will understand auditors" legal liabilities, and be able to apply case law in making a
			judgment whether auditors might be liable to certain parties;
			3. Student will understand to describe the various levels of persuasiveness of different types of audit
			evidence and explain the broad principles of audit sampling techniques;
	UC-FAF-203	Auditing I	4. Student will understand to discuss the need for an independent or external audit and describe briefly
			the development of the role of the assurance provider in modern business society;
			5. Student will be able describe the quality control procedures necessary to ensure that a competent
			assurance engagement is performed, and apply professional ethics including Code of Conduct to specific
			scenarios.
			6. Student will Explain the internal audit process including the professional standards applicable to the
			internal audit profession.
			 Enhance listening, speaking, reading and writing skills to meet the challenges in the business anticomment
		Business	environment 2. Understand the importance of communication methods and channels in order to successfully use
	UC-FAF-204	Communication	 Understand the importance of communication methods and channels in order to successfully use them in professional settings
		- Junior Carlon	 Understand and demonstrate the use of basic and advanced writing techniques
			 Confidently participate in meetings, conferences, interviews and group discussions.
			1. The subject will enable the students to appreciate the importance of understanding self and group
		Foundation Course - 11 FAF-205 (Human	behaviour.
	UC-FAF-205		2. Students will understand the importance of team and how team building contributes to the success of
	0C-FAF-205		the organization.
			3. Leadership qualities and motivating factors relevant to human beings will be understood well.
			1. Role of law in economic, political and social context
			2. Understand the legal and fiscal structure of different forms of business organizations and their
	UC - FAF - 206	Business Law II	responsibilities as employer 3. Relevance of law to individuals, business and organization
			 Kelevance of law to individuals, business and organization Awareness of laws related to employee's compensation management
	1	1	1. A wateriess of laws related to employee's compensation management

ICC-SAF-207 natures Status composition of the off-status Works y" ICC-SAF-307 Corporation of the off-status works, model and status and expression of the use of the status and the status of the statu				
y ^a WC - SAF-301 VC - SAF-302		UC-FAF-207	Business Statistics	2. It will enable the students to apply these theories and make correct future estimates
3° UC-SAF-300 Corporate Laws and the park of the observations and derivations anderivatina derivation andederivation and derivatina derivation ande				3. The students will learn how to analyse complex situations and apply statistical techniques to the same.
ICSAF-302 Financial Accounting: ILI I. This updays logic heap the audion to get realisities with accounting based only of memory and accounting based on the matery and accounting based on the memory and accounting based on the matery and accounting based on thematery and accounting based on the matery an	3 rd	UC- SAF-301	Corporate Laws I	2. They will be able to Understand the legal and fiscal structure of different forms of business organizations and their responsibilities as employer
UC-SAF-302 Financial Accounting III Accounting III Accounting III Control and also of patients comprehensive uncertainting of a summariantian correction and also of patients in the space of the higher. UC-SAF-303 The same provide sequences comprehensive uncertainting of a summariantian information in the space of the space demand in the space of the space of the space of the space of the space demand in the space of the space demand in the space of the s				
UC-SAT-303 I. The advec objective will help student to be a probasimal when it comes to working with the humaing accor and equipped with the humains and a student to be a probasimal when it comes to working with the humains accor and the students with the humains accord and the students with the matter accord according to the students with the matter according to the students with the stud		UC- SAF-302		 To impart knowledge about the practical aspects of the subject. This course provides comprehensive understanding of accounting treatments for amalgamation,
Image: Control of the control of th		UC-SAF-303		 The above objective will help student to be a professional when it comes to working with the banking sector and corporates. There are well equipped with the hands-on skill for the Industry. We are making them professional in a way that one can be qualified to be a Literate in the Field of Information technology Student will gain basic knowledge of Tally and POWER BI Software Skills which is of great demand in the market Today's we want our students to be market oriented so we have enable the module of MIS and
LC:SAF-305 Foundation Contemporary Isses - 1 1. An improved understanding of socio-economic and human rights issues in India after globalization. UC:SAF-306 Exactess of India's environmentel commitments Signal and the cost accounting terms and policies. UC:SAF-306 Cost Accounting In 1. This subject helps the students to get finantiar with the cost accounting terms and policies. UC:SAF-306 Cost Accounting In 1. This subject helps the students to get finantiar with the cost accounting terms and policies. UC:SAF-307 Auditing II 1. The subject helps the students in understand Cost Questions. UC:SAF-308 Taxation I 1. This subject helps the students in understand Cost Questions. UC:SAF-308 Taxation I 1. This subject helps the students in understand Cost Questions. UC:SAF-309 Taxation I 3. Students will be able to accounting terms related to first: taxation. UC:SAF-308 Taxation I 1. This subject helps the students in context of the students. UC:SAF-309 Financial Management 1. This subject helps the students income for all heads of income and the student income in the student income in the student income and the student income and the student income and the student income and the student income in the student income in the student income in the student income in the student income of the student		UC-SAF-304	Course (Financial	 Students will be aware about the various investment avenues prevalent in the financial markets. Understand the role and importance of commodities and derivatives markets
Course Courseou on the anourse Course Course Course Course				
4 ^{ab} I. The subject helps the students to control the cost of afrom UC - SAF-306 Cost Accounting - They will be able to coregonize, record, carming, summarize, and study the company's cost spent or any process, service, product or anythine, summarize, and study the company's cost spent or any process, service, product or anythine, summarize, and study the company's cost spent or any process, service, product or anythine, summarize, and study the company's cost spent or any process, service, product or anythine, summarize, and study the company's cost spent or any process, service, product or anythine, summarize, and study the company's cost spent or any process, service, product or anythine, summarize, and study the company's cost spent or any process, service, product or anythine, summarize, and study the company's cost spent or any process, service, product or anythine, summarize, and study the company's cost spent or any process, service, product or anythine, summarize, and study the company's cost spent or any process, service, product or anythine, summarize, and study the company's cost spent or any process, service, product or anythine, summarize, and study the company's cost spent or any process, service, product or anythine, summarize, and study the company's cost spent or any process, service, product or anythine, service, service, product or anythine, service, service, service, product or anythine, service, and service, service, service, and sevice service, service, service, service, service, servi		UC-SAF-305	Course Contemporary	2. Awareness of India's environmental commitments
2. Students will be able to compute rescaled from the practical aspects of the subject. 4. They will be able to available able able able able able able able		+	Issues – 1	
4" 1. It will help the students in understanding the various aspects of Auditing 1. UC-SAF-307 Auditing II 1. This subject helps the students understand verification or assesses and liabilities. 1. This subject helps the students in correlation of a sussesse and this should be able to deventing of norme and expenses 1. UC-SAF-308 Taxation I 1. Taxation I 1. Students will be able to deventing the residential status of an assessee and thus should be able to compute the taxable income of assesses with different residential status. 1. UC-SAF-308 Taxation I 1. Students will be able to adventing the residential status. 3. Students will be able to compute the taxable income of the assessee. 2. Students will be able to adventing the residential status. 3. Students will be able to advention the gross tail income of the assessee. 3. Students will be able to advention the gross tail income of the assessee. 4. Students will be able to advention the subject. 4. Students will be able to advention to analysis stalls 5. The students should be able to advention to analysis. 4. The students will be able to advention to analysis stalls 5. The students will be able to identify and understand the importance and use frain analysis. 4. WC-SAF-401 VC-SAF-402 Financial Account of the assessee. 3. The students will be able to identify adventify the frain accounts of thadvecounts of the advecounts of the advecounts		UC - SAF-306		 Students will learn to control the cost of a firm They will get knowledge about the practical aspects of the subject. They will be able to recognize, record, examine, summarize, and study the company's cost spent on any process, service, product or anything else in the organization.
UC-SAF-307 Auditing II 2. It will make the students understand verification of assets and liabilities. 1. They will be able to do vouching of mome and expanses 1. This subject helps the students to get familiar with all the Auding techniques 1. Students will be able to identify the tochnical terms related to direct toxation. 2. Students will be able to identify the tochnical terms related to direct toxation. 1. UC-SAF-308 Taxation I 2. Students will be able to identify the tochnical terms related to direct toxation. 1. UC-SAF-308 Taxation I 2. Students will be able to accumpte the travable income of the assesser. 1. Students will be able to accumpte the travable income and the total tax liability of an individual assesser considering the income form all heads of income and the total tax liability of an individual assesser considering the income form all heads of income and the total tax liability of an individual assesser considering the income form all heads of income and the total tax liability of an individual assesser considering the income form all heads of income and the total tax liability of an individual assesser considering the income form all heads of income and the total tax liability of an individual assesser considering the income form all heads of income and the total tax liability of an individual assesser considering the income form all heads of income and the total tax liability of an individual assesser considering the income form all heads of income and the total tax liability of an individual assesser considering the income form all heads of income and the total tax liability of an individual assesser considering the income form alleads of an analysis		+		
4" I. Students will be able to identify the technical terms related to direct taxation. 2. Students should be able to identify the technical terms related to direct taxation. Students should be able to identify the technical terms related to direct taxation. 3. Students will be able to identify the technical terms related to direct taxation. Students will be able to compute the various benefits (dotuctions under Chap VI-A of the Income tax act, 1961. 4. Students will be able to compute the rational second or income and the deduction under Chap VI-A of the Income tax act, 1961. Students will be able to compute the taxable income and tax for a partnership firm. 1. This students will be able to compute the taxable income and tax for a partnership firm. I. This students will be able to develop financial Management techniques. 1. This students will be able to understand tow law is important in day to day life. The touchers will be able to understand the simportance and use of ratio analysis 1. The students will be able to identify and understand tow law is important in day to day life. The touchers will be able to identify and understand various laws applicable to individual and business constraints. 4" UC-SAF-402 Financial Accounting IV The students will be able to understand management in day to day life. UC-SAF-403 Financial Accounting IV The students will be able to identify and understand various laws applicable to individual and business constraints. UC-SAF-403 Financial Accounting IV <td></td> <td>UC-SAF-307</td> <td>Auditing II</td> <td> It will make the students understand verification of assets and liabilities. They will be able to do vouching of income and expenses </td>		UC-SAF-307	Auditing II	 It will make the students understand verification of assets and liabilities. They will be able to do vouching of income and expenses
4th I. This subject helps the students to get familiar with the Financial Management techniques. 4th I. This subject helps the students to get familiar with the Financial Management and its importance in managing de company. 4th I. This subject helps the students will be able to understand the importance and use of ratio analysis 4th UC-SAF-401 UC-SAF-401 Corporate Law-II II. This subject helps the students will be able to understand the importance and use of ratio analysis II. The students will be able to understand the importance and use of ratio analysis concerns. 3. The students will be able to understand the importance students low and the able to identify and understand he importance students will be able to identify and understand warious laws applicable to individual and business concerns. 3. The students will be able to identify and understand the importance of various legal transactions that occurs in the business world. 4. The students will get elementary knowledge about process of various legal transactions in the business world. II. This subject will help the students to get familiar with preparation of Final Accounts of different entities. UC-SAF-402 Financial Accounts II Provide a solid foundation to the report stage. II. Learners are expected to demonstrate an understanding of preparation of Final Accounts of Companies and Limited Liability Partnerships II. Learners are expected to demonstrate an understanding of research methodologies.		UC-SAF-308	Taxation I	 Students will be able to identify the technical terms related to direct taxation. Students should be able to determine the residential status of an assessee and thus should be able to compute the taxable income of assessee with different residential status. Students will be able to understand the various benefits/ deductions under Chap VI-A of the Income tax act, 1961 which are to be reduced from the gross total income of the assessee. Students will be able to compute the net total income and the total tax liability of an individual assessee considering the income from all heads of income and the deduction under Chap VI-A of the Income tax act, 1961.
4th 2. The students will be able to identify and understand various laws applicable to individual and business concerns. 4th 2. The students will get elementary knowledge about process of various legal transactions that occurs in the business world. 4. The students will get knowledge of how to exercise their legal rights in case of breach / violation in transactions in the business world. 4. The students will get knowledge of how to exercise their legal rights in case of breach / violation in transactions in the business world. 4. The students will get knowledge of how to exercise their legal rights in case of breach / violation in transactions in the business world. 4. The students will get knowledge of how to exercise their legal rights in case of breach / violation in transactions in the business world. 4. The students will get knowledge of how to exercise their legal rights in case of breach / violation in transactions in the business world. 4. The students will get knowledge of how to exercise their legal rights in case of breach / violation in transactions in the business world. 4. It subscription to the count of the students will be able to understand and practice different aspects of Depreciation Accounts of Companies and Limited Liability Partnerships 4. UC-SAF-403 Business Business Research Methodology 1. Learners are expected to demonstrate an understanding of research methodologies. 2. They should be able to imbibe data collection, analysis, interpretation and presentation skills and analytical		UC-SAF-309		 This subject helps the students to get familiar with the Financial Management techniques. It will impart knowledge about the practical aspects of the subject. The course aims at explaining the core concepts of Financial Management and its importance in managing the company. The students will be able to develop financial analysis skills
UC-SAF-402 Financial Accounting IV 2. The students will be able to understand and practice different aspects of Depreciation Accounting. .3. This course will provide comprehensive understanding of preparation of Final Accounts of Companies and Limited Liability Partnerships .1. Learners are expected to demonstrate an understanding of research methodologies. .2. They will Identify the overall process of designing a research study from its inception to the report stage. .2. They will Identify the overall process of designing a research study from its inception to the report stage. .3. They should be able to imbibe data collection, analysis, interpretation and presentation skills at par with globally accepted standards. .4. It will provide a solid foundation for development of rational problem solving skills and analytical thinking that can last throughout their education and subsequent professional careers. .1. It will make students to be more decisive and improve their decision-making skills. .3. It will create awareness amongst students about the complexities of the business and enable them to tackle the issues and challenges of the organization in a better way.	4 th	UC- SAF-401	- · · · · · · · · · · · · · · · · · · ·	 The students will be able to identify and understand various laws applicable to individual and business concerns. The students will get elementary knowledge about process of various legal transactions that occurs in the business world. The students will get knowledge of how to exercise their legal rights in case of breach / violation in
UC-SAF-403 Business Research Methodology 2. They will Identify the overall process of designing a research study from its inception to the report stage. 3. They should be able to imbibe data collection, analysis, interpretation and presentation skills at par with globally accepted standards. 3. They should be able to imbibe data collection, analysis, interpretation and presentation skills at par with globally accepted standards. 4. It will provide a solid foundation for development of rational problem solving skills and analytical thinking that can last throughout their education and subsequent professional careers. 5. They should be able to imbibe data collection, analysis, interpretation and presentation skills at par with globally accepted standards. 4. It will provide a solid foundation for development of rational problem solving skills and analytical thinking that can last throughout their education and subsequent professional careers. 5. It will be pstudents to be more decisive and improve their decision-making skills. 3. It will create awareness and ongst students about the complexities of the business and enable them to tackle the issues and challenges of the organization in a better way.		UC- SAF-402		 The students will be able to understand and practice different aspects of Depreciation Accounting. This course will provide comprehensive understanding of preparation of Final Accounts of Companies and Limited Liability Partnerships
 2. It will help students to be more decisive and improve their decision-making skills. 3. It will create awareness amongst students about the complexities of the business and enable them to tackle the issues and challenges of the organization in a better way. 		UC-SAF-403	Research	 They will Identify the overall process of designing a research study from its inception to the report stage. They should be able to imbibe data collection, analysis, interpretation and presentation skills at par with globally accepted standards. It will provide a solid foundation for development of rational problem solving skills and analytical thinking that can last throughout their education and subsequent professional careers.
UC-SAF-404 (Introduction to Management) A students will be able to design better organizational structure, policies, processes and procedures in order to attain the organizational objectives. 5. Students will not only understand the in - depth essentials of management and functioning of the organization but will be also able to judge the needs, wants and motivation levels of their human resources, which will help them to align individual interest with the organizational requirement.		UC-SAF-404	Course (Introduction to Management)	 It will help students to be more decisive and improve their decision-making skills. It will create awareness amongst students about the complexities of the business and enable them to tackle the issues and challenges of the organization in a better way. Students will be able to design better organizational structure, policies, processes and procedures in order to attain the organization objectives. Students will not only understand the in - depth essentials of management and functioning of the organization but will be also able to judge the needs, wants and motivation levels of their human resources, which will help them to align individual interest with the organizational requirement.
Foundation 1. A better understanding of India's rise as an economic power. UC-SAF-405 Course 2. Developed awareness of India's strengths and capabilities on domestic and international front.		UC-SAF-405		

		(Contemporary	3. Relevance of the wisdom of culture, political values and foreign policy for improved relations.
		1	1. This subject will help the students to get familiar with the cost accounting terms and policies.
			2. It will help to control the cost of a firm
	UC - SAF-406	Cost Accounting -	
	00 5.11 1.00	IV	4. It will enable them to recognize recording, examining, summarizing, and studying the company's cost
			spent on any process, service, product or anything else in the organization.
		_	5. It will help them understand Cost Controlling
			1. This subject helps the students to get familiar with the Audit of different undertakings.
	UC-SAF-407	Auditing - III	2. It helps the students in understanding the various requirements of Auditing.
			3. To develop understanding of Audit under CIS environment and other requirements of auditing.
			1. To make the students understand the basic concepts, definitions and terms related to direct taxation.
			2. To make the students understand the concept of residential status thus making them understand the
			scope of total income for an assessee with different kinds of residential status.
			3. To make students understand the various heads under which income can be earned in India. To make
			students understand the procedure for computation of income under various heads namely income from
			salaries, house property, business/ profession, capital gains and income from other sources. Students will
	UC-SAF-408	Direct Taxes - II	able to compute income from salaries, house property, business/profession, capital gains and income fro
			other sources
			4. To help the students to understand the various deductions under Chap VI-A of the Income tax act, 196
			5. To make the students determine the net total taxable income of an assessee after reducing the deduction
			from the gross total income earned from all or either of the five heads of income and also to compute ta
			based on slab rates.
			6. To help the students understand the computation of income and tax for a partnership firm
	UC-SAF-409	Financial	1. It helps to develop understanding of Leverages, Management of Working Capital.
		Management - II	2. It will enable students to help students analyse the Cash flow statements.
			1. The students will acquire skill in advanced company accounts.
5 th		Financial	2. They will learn the conventions in amalgamation, absorption and reconstruction.
-		Accounting - V	3. They will be equipped with training on finalizing and adopting company accounts.
			4. They will also be acquainted with buy back of shares and liquidation of companies.
		Financial	1. The students will learn basics of Financial Reporting and Analysis.
		Accounting - VI	They will learn financial reporting of limited companies, insurance and banking companies.
		Cost Accounting -	1. The students will be able to know the techniques of costing in detail.
		Ш	2. They will have a command of costing of hospitals, hotels, goods and passengers transport service.
			They will be acquainted with ABC Costing System.
			1. The students will learn Investment decisions, financing decisions and Dividend decisions.
		Financial	2. They will be Introduced to Valuation of securities
		Management - II	They will learn mutual fund and bond valuation
			They will be able to manage receivables and other credit
		Taxation - IV	1. The students will be introduced to GST
		(Indirect Taxes -	They will have a grip on levy and collection of GST
		(They will also learn Input Tax Credit and Computation of GST
		,	They will attain knowledge of registration
			 They will learn International financial securities
		International	The students will be well acquainted with Derivatives and its types.
		Finance	They will have grasp on futures and options
			They will recognize and deal in Foreign Exchange Markets
			They should be able to manage risks through hedging nd arbitrage.
		Financial	 The students will get familiar to financial modelling and its concepts.
		Analysis and	They will practice financial analysis of statements drawn.
		Business	They will be well acquainted with Valuation Models
		Valuation	They will learn application through valuation of assets and liabilities.
		Management -II	1. The students will learn in depth management in different broad areas.
		(Management	2. They will learn the applications and conventions in Marketing Management, Production management
		Applications)	human Resource management and Financial management.
			1. The students will learn financial reporting of electricity companies and cooperative societies.
6 th		Financial	They will be able to draw investment accounts
U U		Accounting - VII	They will understand the valuation of mutual funds.
			They will be introduced to Ind AS and IFRS
			1. The main objective of inclusion of project work is to inculcate the element of research analyse an
		Project Work	scientific temperament challenging the potential of learner as regards to his/ her eager to enquire and ability
			interpret particular aspect of the study.
			1. The students will get an understanding of techniques of cost accounting.
			2. They will get awareness of budgetary control and different types of budgets.
		Cost Accounting -	3. They will learn application of managerial decision making with respect to different decisions like
		IV	exploring new markets, make or buy, deciding sales mix etc.
			4. They will do exercises on controlling costs by learning and practicing standard costing and variant
			analysis.
			1. The students will understand and study different sources of raising finance like hire purchase and leasing
		Financial	
		Management - III	2. They will also learn working capital financing.
			They will get equipped with approaches for valuation of business.
			They will get abreast with advanced concepts like mergers, acquisitions, restructuring etc.
		Taxation - V	 The students will continue to learn advanced concepts of GST.
		(Indirect Taxes-	2. They will also learn to file returns under GST and audit and assessment procedures.
		III)	They will get introduced to Customs Act.
		,	They will get equipped with foreign trade policies.
		Security Analysis	1. The students will be able to value the portfolio and learn portfolio management in detail.
		and Portfolio	2. The will also get grasp on fundamental analysis
		Management	3. Following fundamental, they will be able to analyse the stocks technically.
		Management	1. They will learn the new developments in control system and management accounting.
			la ma na la
		0	They will understand the need and process of inflation accounting.
		Control Systems	 They will understand the need and process of inflation accounting. They will get abreast with Financial Goal Setting, Transfer Pricing and Responsibility centre.
		0	

	(Indian Economy)	2. They will get well versed with various sectors of Indian economy like agricultural, industrial and service
Ň		 They will understand the monetary policy and the capital markets.

Specific Program: B.Com (Banking and Insurance)

Program Specific Outcome (PSO):

1. The Program aims to produce graduates who will produce innovative solutions to problems, apply research skills to business challenges and communicate effectively.

2. This course will provide adequate exposure to operational environment in the field of Banking, Insurance and other related financial services

3. Students will be able to tackle the challenges of the business world, using their core- knowledge of two very important sectors of the domain- Banking and Insurance.

Course Outcome (COS).	Comme Code	Course Title	Course Outcome (in hellicte)
<u>Semester</u>	Course-Code	Course Title Environment and Management of Financial Services	Course Outcome (in bullets) Course Outcome (in bullets) Describe the general structure of Financial System – Financial Institution, Financial Instruments, Financial Markets, Financial Services & in particular understand the functioning of Banking & Insurance industry Understand the Development, Management, & working of Banking & Insurance industry To provide basic understanding relating to the role of Regulating Agencies like RBI, SEBI, IRDA Equip students with the Risk Management practices being followed
	UC-FBI-102	Micro Economics	 Students will be able to identify and explain economic concepts and theories related to the behaviour of economic agents, markets, industry and firm structures, legal institutions, social norms, and government policies. Students will be able to integrate theoretical knowledge with quantitative and qualitative evidence in order to explain past economic events and to formulate predictions on future ones. Students will be able to evaluate the consequences of economic activities and institutions for individual and social welfare. Students will be able to identify the basic features of alternative representations of human behavior in economics.
	UC-FBI-103	Financial Accounting I	 Accounting involves dealing with real revenues, actual transactions and observable finance. This subject will make students acquire knowledge about the laws that govern business, typical business administration schemes, ethics of accountancy, statistics and accounting theory.
	UC-FBI-104	Principles of Business and Management	 The program seeks to develop in students the competencies and attitude in playing the various roles in the business world To introduce Business and its environment Explain the nature and different Management Concepts Discuss the Importance of Entrepreneurship and Factors contributing to growth of Entrepreneurship
	UC-FBI-105	Business Communication	 To help learners develop interpersonal skills that contribute to effective and satisfying personal, social and professional relationship To facilitate understanding of the nuances of verbal and non-verbal communication as it plays a vital role in the accomplishment of organisational goals To impart knowledge regarding exchange of information both within and outside the organisation. To upskill learners with the use of the latest digital tools and techniques to facilitate effective communication at workplace
	UC-FBI-106	Business Mathematics	 To develop the desired mental faculties that enable the students to present solutions to problems/queries where quantitative solutions are desired To understand the concept of simple interest and compound interest To know the rules of derivatives and application of it
	UC-FBI-107	Foundation Course I	 To understand the pluralistic nature of Indian society. To sensitize the students about gender disparity in the society. To explain significance of human rights and understand the tenets of Indian Constitution. To create awareness about growing social and environmental problems in India
Semester II	UC-FBI-201	Principles and practices of banking and insurance	 To acquire the skills necessary to work in Financial Service Industry Particularly Banking & Insurance, To describe and apply financial concepts, theories, and tools. The course facilitates learning of industry practices with special focus on Banking & Insurance industry.
	UC-FB1-202	Macro Economics	 Students will be able to identify and explain macroeconomic variables and understand the economic forces that influence and determine them. Students will be able to integrate theoretical knowledge with quantitative and qualitative evidence to explain past economic events and to formulate predictions on future ones. Students will be able to evaluate the consequences of economic activities and institutions for individual and social welfare. Students will be able to identify the basic features of alternative representations of human behaviour in economics.
	UC-FBI-203	Business Statistics	 To develop the desired mental faculties that enable the students to present solutions to problems/queries where quantitative solutions are desired. To describe data and make evidence-based decisions using inferential statistics
	UC-FBI-204	Financial Accounting II	 Accounting involves dealing with real revenues, actual transactions, and observable finance. This subject will make students acquire knowledge about the laws that govern business, typical business administration schemes, and ethics of accountancy, statistics and accounting theory.
	UC-FBI-205	Business Law	 To explain the framework within which business activities shall be carried out To raise an issue to various legal and semi-legal authorities against the government in case the legal rights of the business have been violated
			 To acquaint the students with the art of Professionalism which include professional style of making presentation using keyboard shortcuts and presenting the same to many audiences.

	UC-FB1-206	Information Technology	2. Documentation is another aspect where we want student to emphasize on how to select the correct format, layers and alignment in the documents, in last we also give much hands on working with spreadsheet (DATABASE) basic skills in terms of Practical and as far as theory student must be acquainted with the knowledge of Computer, internet and network.
	UC-FBI-207	Foundation Course II	To understand the basic behaviour pattern of human personality. To comprehend group behaviour. To understand the issues of stress and stress management To develop an understanding of aspects of organization behaviour and motivation
Semester III	UC-SBI-301	Business Ethics and Corporate Governance	 Create and address relevance of social responsibility to the students Making students understand the good corporate governance and its importance Students understand the global challenges in business ethics.
	UC-SBI-302	Financial Markets	 Students understand the groun chartenges in ousnics cones. Students will be able to describe the general structure of Financial Markets and in particular understand the functioning of Banking & Insurance industry. The subject will provide basic understanding relating to the role of Regulating Agencies like RBI, SEBI, IRDA. It will introduce students to the Risk Management practices being followed in the financial sector.
	UC-SBI-303	Foundation Course- III (Retail Banking)	 Explain how retail and corporate banks function to deliver financial intermediation, support asset transformation and create money supply. Evaluate the sources of risk that a retail bank manages in delivering these functions for customers and the wider economy. Bescribe the core services of a retail bank and explain the value of these services to customers.
	UC-SBI-304	IT in Banking and Insurance	 Describe the core services of a relarious and explain the value of these services to easimilar. Be professional when it comes to working with the industry and corporates. Making students well equipped with the hands-on skill for the Industry. Making students professional in a way that one can be qualified to be skilled in the field of Information technology Student will gain basic knowledge of Software, hardware and networking along with Microsoft office Skills students to be market oriented and to know more on network, cyber-crime and technology with regards to misuse of internet and network
	UC-SBI-305	Mutual Fund Management	 Learn about the mutual fund industry structure in India Understand types of mutual funds undertake necessary research to understand risks and valuation of funds Be able to understand accounting and taxation for mutual funds
	UC-SBI-306	Management Accounting	 To introduce students to various techniques used for analysing financial health of a company. To understand the use of general and industry specific ratios. To develop financial analysis skills among students.
	UC-SBI-307	Entrepreneurship Management	 Sharpen creative, innovative and problem solving skills of students Students will learn life skills and how to tackle failures and uncertainities Identification of best entrepreneurial opportunities Learn new business models and entrepreneurial ethics
	UC-SBI-308	Direct tax	 Students will be able to identify the technical terms related to direct taxation. Students should be able to determine the residential status of an assessee and thus should be able to compute the taxable income of assessee with different residential status. Students will be able to understand the various benefits/ deductions under Chap VI-A of the Income tax act, 1961 which are to be reduced from the gross total income of the assessee. Students will be able to compute the net total income and the total tax liability of an individual assessee considering the income from all heads of income and the deduction under Chap VI-A of the Income tax act,1961. Students will be able to compute the taxable income and tax for a partnership firm.
	UC-SBI-309	Organisational Behaviour	 Demonstrate the applicability of analyzing the complexities associated with management of individual behavior in the organization. Analyze the complexities associated with management of the group behavior in the organization.
Semester IV	UC-SBI-401	Credit and Risk Management	 Learn how risk management evolves in this disruptive and innovative environment Provide an overview and working knowledge of risk governance and long-term value creation in the light of digital disruptions and new regulations
	UC-SBI-402	Corporate and Banking Laws	 Learn and understand the provisions of the Special Contract Act. Understanding about the Companies and learning the various provisions of Companies Act 2013 The students will get acquainted with the Banking Regulation Act 1949, Insurance Act 1938, IRDA 1999, Prevention of Money Laundering Act, 2002, SARFAESI Act, 2002
	UC-SBI-403	Foundation Course- IV (Life and General Insurance)	 Students will understand the characteristics of insurance operations Students will understand different insurance products. Students will able to understand need for health insurance and claim management Students will know the concepts of liability insurance
UC-SBI-404	Research Methodology	 Learners are expected to demonstrate an understanding of research methodologies. Identify the overall process of designing a research study from its inception to the report stage. Imbibe data collection, analysis, interpretation and presentation skills at par with globally accepted standards. In ovides a solid foundation for development of rational problemsolving skills and analytical thinking that can last throughout their education and subsequent professional careers 	
	UC-SBI-405 Fi	Financial Planning	 Understand Basic Concepts in Financial Planning Learn about the Financial Products for Savers and Investors Analyse the The Psychographics and Life Cycle of the Investor How to frame the Goals and Investment Objectives Learn Tax Planning to save tax Building a Model Portfolio
	UC-SBI-406	Financial	1. Will enable students to make investment decisions considering time value money.
	UC-SBI-407	Management Merchant Bankinş	 Learn to make Investment Decisions using Capital Budgeting techniques Know the basics of the Merchant Banking in India. Understand the functioning of Merchant Bankers related to Issue Management Process, Substantial Acquisition of Equity Shares, Buyback of Equity Shares and Delisting of Shares. Know the regulatory environment in which the Merchant Bankers operates in India

	UC-SBI-408	Cost accounting	 Learners will be able to prepare Cost Sheet in accordance with appropriate standards of cost. Learners shall possess the knowledge to apply standard costing and marginal costing which are commonly used in industries
			1. The students will be able to understand the fundamental of customer relationship management such
	UC-SBI-409	Customer Relationship Management	 as customer behaviour, relationship marketing, customer satisfaction and loyalty There will be improvement in the analytical skills of the learners as they understand the key components of customer relationship management and explore ways to integrate it within an organization. The students will be able to study the impact of customer relationship management on sales & marketing strategy. The students will be updated with basic technological infrastructure and organisations involved in current and emerging customer relationship management practices. There will be an awareness regarding consumer privacy concerns and the students will also learn
Semester V		International Banking and	methods to deal with privacy and ethical compliance. 1. Students understand the basics of international finance and its allied concepts 2. Students acquire the knowledge of different international capital markets to the students.
		Finance Research Methodology	 Students understand the reasons for growth and recent trends in international banking Students understand and learn the different modes of sample selection through probability and non-probability sampling. It helps them to learn and apply the different sources of primary data collection which is helpful for their research projects. Research process forms an integral part of RM thus enabling them to take on responsibilities into research of market and finance in the future.
		Financial Reporting and Analysis(Corporat	 It teaches students not just the preparation of these accounts but also how to read them and understand them.
		Auditing- I	 Rudso tringiners are addense about the international decounting system unough the filter Students gain knowledge of difference between auditing, accounting and investigation. Students understand various concepts like audit program, audit notebook and other allied concepts.
		Strategic Management	 Students gain knowledge of different auditing techniques like verification and vouching. Strategic management is a broad term that includes innovative thinking, a strategic planning process and operational strategizing. Strategic business management, more specifically, relies largely on research. It is imperative that for a business strategy to be successful, customers' opinions, employees' contribution and the industry's best practices are all taken into account. A common way to encourage strategic business management, is to incorporate a lot of planning into board meetings, have trustees with valued and varied experience, and to carefully consider the impacts of decisions on each business function within the organization. Annual plans for businesses are often put together, but within the 21st century, it is important to be flexible and adapt to changing environments and demands
		Financial Services Management	 This program will help the students to understand the important segment of Financial System. They will comprehend that the development of our country depends on Financial Services, since there is a greater need to exceed the expectations of customers and provide uninterrupted services. This subject will equip the students in the corporate world to manage Finance and Credit. The Module will also help the students to face the challenges in the corporate world through management of fee based and fund based services
		Business Ethics and Corporate Governance	 Students will be able to understand the relationship between ethics, morals and values in the workplace. They will be able to critically apply understanding of ethics in real–world contexts Discuss the influence of corporate governance system on the performance of individual firms. Discuss the moral and social responsibility dimensions of corporate governance.
		Actuarial Analysis in Banking & Insurance	 Students will be able to understand the mathematical and statistical methods to assess risk in the insurance and finance industries They will be able to understand the statistical evaluation of the financial and economic implications of possible contingencies.
Semester VI		Central Banking	 Students understand the concept and growth of central banking in India Students gain knowledge of the role played by RBI as central Bank in India Vis a Vis the role of other central banks across the world. Students understand the need for central bank in the cyber world.
		Project Work in Banking & Insurance	 Students understand the need for central bank in the cyber world. To inculcate the element of research analysis and scientific temperament among learners. To Create awareness among learners regarding methodology of formulation and preparation of the project work
		Security Analysis and 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 and techniques of security and portfolio analysis.
		Auditing - II	So and ensure values induces and recomputes of security and portonio analysis. Students gain knowledge of auditing of banking, insurance and limited companies. Students acquire the knowledge of new areas and trends in auditing. Students understand the need for professional ethics in the auditing process
		Human Resource Management	 Students understand the need and objectives for human resource management with respect to the banking sector. Students gain knowledge of various aspects of Human Resource management and make them acquainted with practical aspect of the subject. Students understand concepts like recruitment, training, development and compensation with reference to the banking sector.
		Turnaround Management	 Students gain knowledge of the different types of business organizations and approaches for their growth and survival. Students are able to analyze the different internal external symptoms of industrial sickness. Students are able to visualize how turnaround management is a skill.
		International Rusiness	 Explain the concepts in international business with respect to foreign trade/international business Students will be able to apply the current business phenomenon and evaluate the global business environment in terms of economic, social and legal aspects

Базшезэ	 They can analyse the principle of international business and strategies adopted by firms to expand globally Integrate concept in international business concepts with functioning of global trade
Marketing in	 To develop concepts in marketing.
Banking &	2. To explain the scope of marketing management-analysing opportunities, selecting target segments,
Insurance	developing the market mix, managing the marketing effort

Program: B.F.M Specific Program: B.F.M

Program Specific Outcome (PSO):

1. To provide adequate basic understanding about Banking, Insurance & other financial services to the students and to give an adequate exposure to operational environment in the field of Banking, Insurance & other related financial services of Accounting and Finance.

2. To inculcate training, and practical approach, by organizing industrial visits, summer placements and using modem technology in teaching the students in the field of Accounting & Finance and Banking.

3. To create an additional avenue of self employment to the student and to provide suitable trained personnel for the Financial Services Sector.

4. To prepare and train the graduates in such a manner so that they can compete in the markets

5. To make them aware about the practical aspect of the theoretical concepts.

6. To establish strong co-ordination with the service sector.

Course Outcome (COs):	T	T	
Semester	Course-Code	Course Title	Course Outcome (in bullets)
			 Students will be aware about the financial system prevalent in the world.
	1	Introduction to	 It will also enlighten them on how it has evolved over period.
1 st	UC- FFM- 101	Financial	 It will provide knowledge about the constituents of the system.
· ·	CC 11.01-101	System	• It will involve working of various financial instruments across capital, money, forex, commodity &
	1	Sjatim	derivative markets.
	L	L	It will also encompass the role of financial regulators & their roles.
			• Students will be able to identify and explain economic concepts and theories related to the behaviour
	1	1	of economic agents, markets, industry and firm structures, legal institutions, social norms, and
	1	1	government policies.
	1	1	• Students will be able to integrate theoretical knowledge with quantitative and qualitative evidence in
	UC- FFM- 102	Micro Economics	order to explain past economic events and to formulate predictions on future ones.
	1	1	• Students will be able to evaluate the consequences of economic activities and institutions for
	1	1	individual and social welfare.
1	1	1	Students will be able to identify the basic features of alternative representations of human behaviour
		<u> </u>	in economics.
		Financial	Accounting involves dealing with real revenues, actual transactions and observable finance.
	UC- FFM- 103	Financial Accounting I	 This subject will make students acquire knowledge about the laws that govern business, typical
		Accounting I	business administration schemes, ethics of accountancy, statistics and accounting theory.
	T		 To develop the desired mental faculties that enable the students to present solutions to
1	1	1	problems/queries where quantitative solutions are desired.
	1	Dur-i-	 To fortify the students to think logically and provide numerical output, which enable decision
	UC- FFM- 104	Business	making.
	1	Mathematics	 To enable problem solving where unbiased and non-judgemental outputs are desired in the form of
	1	1	concise numbers.
	1	1	 To provide a window for their further development into areas of analytics and big data.
	1	1	 To help learners develop interpersonal skills that contribute to effective and satisfying personal,
	1	1	 To help learners develop interpersonal skins that controduc to effective and satisfying personal, social and professional relationship
1	1	1	 To facilitate understanding of the nuances of verbal and non-verbal communication as it plays a vital
l		Business	 To facilitate understanding of the nuances of verbal and non-verbal communication as it plays a vital role in the accomplishment of organisational goals
	UC- FFM- 105	Communicat ion	 To impart knowledge regarding exchange of information both within and outside the organisation.
l	1	1	
l	1	1	 To upskill learners with the use of the latest digital tools and techniques to facilitate effective communication at workplace.
<u> </u>	+	t	communication at workplace Students will understand the basics of management. They will get to know how to attain maximum
1	1	1	 Students will understand the basics of management. They will get to know how to attain maximum output by utilizing the resources (economic and non-economic) to its best
	1	1	output by utilizing the resources (economic and non-economic) to its best.
	1	1	 They will learn about the essential elements of management i.e. POSDCORB : their features, need and importance
	1	Principles of	 It will enlighten the students as how management has evolved over the period.
	UC- FFM- 106	1	 It will enlighten the students as how management has evolved over the period. It will provide clarity to the students about organization vision, mission, objectives and goals.
	1	Management	
	[• It will help students to understand the integration of individual goals with the organizational goals.
1	1	1	• It will update students with the kind of skills and organization structure is required in order to
			sustain in the business.
	1	L	To understand the pluralistic nature of Indian society.
	UC- FFM- 107	Foundation	• To sensitize the students about gender disparity in the society.
		Course – I	• To explain significance of human rights and understand the tenets of Indian Constitution.
		ł	To create awareness about growing social and environmental problems in India.
	1		Accounting involves dealing with real revenues, actual transactions and observable finance.
	10	Financial	• It will help students in preparing financial statements in accordance with appropriate standards.
2 nd	UC- FFM- 201	Accounting II	• It will help students in interpreting the business implications of financial statement information
	1	Accounting 11	• It will help students in Preparing accounting information for planning and control and for the
			evaluation of products, projects and divisions.
			Students will be able to identify and explain macroeconomic variables and understand the economic
	1	1	forces that influence and determine them.
	1	1	Students will be able to integrate theoretical knowledge with quantitative and qualitative evidence in
	UC- FFM- 202	Macro Economics	order to explain past economic events and to formulate predictions on future ones.
			• Students will be able to evaluate the consequences of economic activities and institutions for
l	1	1	individual and social welfare.

		Students will be able to identify the basic features of alternative representations of human behaviour
		in economics.
		Students will be aware about the various investment avenues prevalent in the market. It will also articultan them on how relevant they are 8 their chiractives
		 It will also enlighten them on how relevant they are & their objectives. It will provide knowledge about the various types of investments & its features.
UC- FFM- 203	Principles of	 It will also involve working of various financial investments concepts & their planning, risks,
	Investment	allocation & taxation.
		• It will also encompass the structure of investment portfolio, its performance & various
		methods to calculate returns.
		• To develop the desired mental faculties that enable the students to present solutions to problems/queries where quantitative solutions are desired.
		 The subject fortifies the students to think logically and provide numerical output, which enable
UC- FFM- 204	Business Statistics	decision making.
0C- FFM- 204	Dusiness Statistics	• The subject enables problem solving where unbiased and non- judgemental outputs are desired in
		the form of concise numbers.
		 The subject complements qualitative thinking where both are to be looked at, as two sides of a coin, prior to providing a solution to a problem.
		 Students will be aware about the business environment with the
UC- FFM- 205	Business	• It will also enlighten them on how relevant they are & their objectives.
	Environmen t	 It will provide knowledge about the various factors affecting business It will size an experience on Entremeneurship Clabelisation and at the same time Contemporary
		• It will give an overview on Entrepreneurship, Globalisation and at the same time Contemporary issues
		 To acquaint the students with the art of Professionalism which include professional style of making presentation using keyboard shortcuts and presenting the same to a large number of audiences.
UC- FFM- 206	Information	To equip with the hands-on skill for the Industry.
UC- FFM- 206	technology	 Student should gain basic knowledge of Software and hardware along with Microsoft office Documentation is another aspect where we want student to emphasize on how to select the correct
		format, layers and alignment in the documents
		Provide hands on working with spreadsheet (DATABASE) basic skills in terms of Practical
		Student must be acquainted with the knowledge of Computer, internet and network.
	Foundation	To understand the basic behaviour pattern of human personality.
UC- FFM- 207		 To comprehend group behaviour. To understand the issues of stress and stress management
	(Human skills)	 To develop an understanding of aspects of organizational behaviour and motivation.
		Learn and understand the provisions of the Indian Contract and Special Contract Act.
3 rd UC-SFM-301	Business Law	Understanding about the Companies and learning the various provisions of Negotiable instruments
		Act.
		 The students will get acquainted with the Sale of Goods Act. To acquaint management learners with basic accounting fundamentals and develop financial analysis
UC-SFM-302	Management	skills.
	Accounting	To enable understanding of cash flow statements and management of working capital.
UC-SFM-303	Foundation	 Students will be able to understand the Markets its types and its implication.
	Course – III-	Students will understand the practical aspect of the importance of the Equity Markets. Be professional when it comes to working with the industry and corporates.
		 Be professional when it comes to working with the industry and corporates. Making students well equipped with the hands-on skill for the Industry.
	T	• Making students professional in a way that one can be qualified to be skilled in the field of
UC-SFM-304	Information Technology in	Information technology.
	Financial Markets	• Student will gain basic knowledge of Software, hardware and networking along with Microsoft
		 office Skills. Students to be market oriented and to know more on network, cyber-crime and technology with
		regards to misuse of internet and network.
UC-SFM-305	Mutual Fund	Students will be able to understand the Mutual funds and its types
0C-3FM-303	Management	Students will understand the practical aspect of Mutual Funds and its steps and calculations
UC-SFM-306	Fundamental Analysis	To have a basic understanding about fundamental analysis. To have the various valuation methodologies
	Foreign Exchange	To learn the various valuation methodologies Students will be able to understand the Forex in detail with its practical implication
UC-SFM-307	Markets	 Students will be able to understand the Potex in dealth with its practical inspiration Students will understand the practical aspect of Foreign Exchange and its steps and calculations
		 Students will be able to identify the technical terms related to direct taxation.
		• Students should be able to determine the residential status of an assessee and thus should be able to
		 compute the taxable income of assessee with different residential status. Students will be able to understand the various benefits/ deductions under Chap VI-A of the Income
UC- SFM- 308	Direct Tax	• Students will be able to understand the various benefits' deductions under Chap VI-A of the income tax act, 1961 which are to be reduced from the gross total income of the assessee.
		• Students will be able to compute the net total income and the total tax liability of an individual
		assessee considering the income from all heads of income and the deduction under Chap VI- A of the
		Income tax act,1961.
	Treasury	 Students will be able to compute the taxable income and tax for a partnership firm. The students will be able to understand the complexities of treasury management
UC-SFM-309	Management	 The students will be able to understand the complexities of iteasury management The students will be able to Classify treasury market and Treasury Services
		• The students will be able to Understand the laws related to formation of companies, types of
		Companies, legal document regarding company, appointment of directors their qualifications and
4 th UC-SFM-401	Corporate and Securities Law	disqualification, meetings.
	Securities Law	 The students will be to learn laws related to rules and provisions related to Partnership and LLP The students will be understanding the laws related to Foreign Exchange Management, Securities
		Exchange and Role of SEBI.
UC-SEM-402	Corporate	To develop understanding of capital structure and leveraging
UC-SFM-402	Finance	 To develop understanding of capital structure and leveraging To enable students to make investment decisions considering time value of money.
	Finance Foundation	 To develop understanding of capital structure and leveraging To enable students to make investment decisions considering time value of money. Students will be able to understand the Debt and Money market in detail with its practical
UC-SFM-402 UC-SFM-403	Finance	 To develop understanding of capital structure and leveraging To enable students to make investment decisions considering time value of money. Students will be able to understand the Debt and Money market in detail with its practical implication with its participants.
	Finance Foundation Course-IV –	 To develop understanding of capital structure and leveraging To enable students to make investment decisions considering time value of money. Students will be able to understand the Debt and Money market in detail with its practical

1	1	1	Identify The Overall Process Of Designing A Research Study From Its Inception To The Report
	UC-SFM-404	Research Methodology	Stage. • Imbibe Data Collection, Analysis, Interpretation And Presentation Skills At Par With Globally Accepted Standards.
			• It Provides A Solid Foundation For Development Of Rational Problem Solving Skills And Analytical Thinking That Can Last Throughout Their Education And Subsequent Professional Careers.
	UC-SFM-405	Financial Planning	 The students will be able to understand how Financial Planning is done and its importance The students will be able to carry out the Financial Planning activity, its process and its calculations
	UC-SFM-406	Technical Analysis	
	UC-SFM-407	Commodity & Derivatives Market	 Students will be able to trade based on the various trading strategies and understanding of risk. Students will be able to understand the Commodity and Derivative Markets in detail with its practical implication with its participants. Students will understand the regulatory aspect of the Commodity and Derivatives
	UC-SFM-408	Indirect Tax	 Markets and the process of investing in the same. Students will be able to identify the technical terms related to indirect taxation. Students will be able to understand the various provisions relating to GST. Students will be able to compute the GST and understand the documentation requirements, types
	UC-SFM-409	Corporate Accounting	 and provisions of filing returns. To get a closer understanding of accounting involved in internal and external reconstruction of companies. To gain knowledge of ascertaining underwriting commission and profits prior to incorporation of
5 th		Marketing in	 companies. To introduce students to the marketing of financial services. To demonstrate the benefits of using an analytical approach to marketing in the financial services industry. Students would be aware of all the concepts of marketing specific to financial services.
		financial Services	 Students would learn the various analytical approaches to marketing in financial services industry and understand the benefits of various approaches.
		Technical analysis	of market etc. • Students would get an exposure to various charts and patterns of technical analysis. And get an
		Corporate Accounting	understanding on various tools available in technical analysis Construct the financial statements of company within the frame work of Ind AS Develop a process for redemption of Preference shares Construct the Restructuring of capital structure in the financial statement of Joint stock company ltd. Calibrate the procedure involved in Amalgamation of companies Calibrate the procedure involved in Absorption of companies
		Equity Research	 Explain the implication of unethical accounting practices on the society The objective of the Equity Research course would be to help you be a better investor to provide you with an understanding of how to identify, analyze the financial statements of a business and invest in companies with better investment decisions. It would cover basic investment topics as well as advanced fundamental concepts in a manner which is easy to understand for someone without a background in accounting. It includes discussions via case studies, understanding broader investment topics, outlines on how to analyse a company, evaluation of companies, comprehend the annual report, capital allocation decision, portfolio construction and rebalancing and creating a correct psychological framework that will help one
		Direct Tax- Income Tax	 traverse various cycles of markets. To acquaint the students with basic principles underlying the provisions of direct tax. To develop a broad understanding of the tax laws and accepted tax practices. Students would be able to explain different types of Incomes and their taxability and expenses and their deductibility. Students would be able to describe how the Provisions in the tax laws can be used for tax planning.
		Business Valuation	 To acquaint the students with basic understanding of discounted cashflow method, and relative valuation Method To demonstrate students how to use the public information to analyse and valuate a company. Students would be able to conduct valuations based on the discounted cash flow method and relative valuation for a company. Students would be able to critically analyse publically available information about what is occurring in financial markets.
6th		Venture Capital and Private Equity	 Students will be provided with a deep understanding of the mechanism underpinning the creation and/or development of a firm and the financial support it can get from the financial system through venture capital investment. It tries to discover how special financial intermediaries (called private equity investors) finance through equity companies belonging to different stages of their life-cycle, starting from the very beginning to a more mature phase or also staying into crises and decline. Private equity (named venture capital when the company is in the first phases of its life cycle) deals with very different activities, such as scouting, advisory, deal-making, valuation, and financing as financial intermediaries see it.
		Mutual Fund Management	 To get a basic overview and understanding of the evolution, regulatory bodies, organizational structure and types of mutual funds in India. To understand the valuation, accounting and taxation of Mutual Funds in India Students would have a fair understanding of the different products in in mutual funds and various rules and regulations protecting the investors in mutual fund industry. Students would be able to evaluate the performance of various mutual funds and be aware of the various taxation benefits of each.

Organisational Behaviour	 To define basic organizational behavior principles, and analyze how these influence behavior in the workplace. To analyze individual human behavior in the workplace as influenced by personality, values, perceptions, and motivations. Students would be able to identify various factors that affect the motivational levels and values in an organization. Students would be aware of the various behavioral aspects that affect the workplace.
Strategic Corporate Finance	 To impart Broad perspective of financial matters within the corporate environment. To equip the students with an understanding on how crucial corporate finance decisions are taken and what are the factors to consider for such decisions. Students would have understanding of the various financial decisions in a corporate environment and the impact of such decisions in shareholder Value Students would have an understanding of the importance of various decisions such has dividend decision, capital budgeting etc.
Indirect Tax- GST	 To acquaint the students with basic principles underlying the provisions of indirect tax and to develop a broad understanding of the tax laws and accepted tax practices. Expose the participants to real life situations involving taxation and to equip them with techniques for taking tax-sensitive decisions. Students would be able to state the use of various deductions to reduce the taxable income. Students would be able to learn various direct and indirect taxes and their implication in practical situations.
Corporate Restructuring	 Identify the key issues and concepts of mergers and acquisitions. Understand the major strategies that underlie most M&A transactions. Examine the necessary conditions for value to be created. Assess various case studies to analyze valuation strategies, pre and post merger issues and challenges.

Programs: B.M.S

Specific Program:

Program Specific Outcome (PSO):

1. Gain analytical skills, exposure and knowledge to handle responsibilities at middle level managerial roles in organisations; make reasoned, ethical decisions based on professional standards for ethical conduct in the best interests of the project, the organisation, the environment and the society as a whole.

2. Develop competencies in the field of marketing, finance, human resource management, economics and productions, at national and international levels; apply the learnings to the primary, secondary and the tertiary commercial sectors.

3. Acquire the aptitude and interest to pursue post-graduate studies and research in top-ranking institutions in India and renowned institutions abroad; excel in competitive examinations in public service and the armed forces.

4. Effectively manage people and build strong relationships with all the stakeholders; make persuasive presentations that reveal strong written and oral communication skills.

5. Employ critical thinking and analytical skills to investigate complex business problems and propose viable solutions.

6. Start an entrepreneurial venture.

Semester	Course-Code	Course Title	Course Outcome (in bullets)
1 st	UC-FMS-101	Introduction to Financial Accounting	 Define bookkeeping and accounting Explain the general purposes and functions of accounting Explain the difference between management and financial accounting Describe the main elements of financial accounting information – assets, liabilities, revenue and expenses Identify the main financial statements and their purposes.
	UC- FMS-102	Business Law – I	the business world 4. The students will get knowledge of how to exercise their legal rights in case of breach / violation in transactions in the business world
	UC-FMS-103	Business Mathematics and Statistics – I	 The subject fortifies the students to think logically and provide numerical output, which enables decision making. The subject enables problem solving where unbiased and non-judgemental outputs are desired in the form of concise numbers. The subject complements qualitative thinking where both are to be looked at, as two sides of a coin, prior to providing a solution to a problem. The subject provides a window for their further development into areas of analytics and big data.
	UC-FMS-104	Information Technology	 To acquaint the students with the art of Professionalism which include professional style of making presentation using keyboard shortcuts and presenting the same to a large number of audiences. Documentation is another aspect where we want student to emphasize on how to select the correct format, layers and alignment in the documents, We also provide hands on working experience with working with spreadsheet (DATABASE) basic skills in terms of Practical As far as theory student must be acquainted with the knowledge of Computer, software o SAP and some programming language Like Python
	UC-FMS-105	Foundation Course - I (Indian Society and State: Contemporary	4. To create awareness about growing social and environmental problems in India.
		Managament	 To enable understanding of the basics of management. To ensure learning of how managers can attain maximum output by optimally utilizing resources (economic and non-economic). To enable learning about the essential elements of management i.e. POSDCORB : their features, need and importance. To enlighten the students as how management has evolved over period of time.

1	UC- FMS- 106	management	4 To provide clarity to the students about organization's vision mission objectives and cools
	0C- 1905- 100	Foundation	 To provide clarity to the students about organization's vision, mission, objectives and goals. To halp students in understanding the integration of individual goals with the organizational goals.
			5. To help students in understanding the integration of individual goals with the organizational goals.
			To update students with the kind of skills and organization structure and their role in creating a sustainable business.
	UC-FMS-107	Micro Economics	 Students will be able to identify and explain economic concepts and theories related to the behavior of economic agents, markets, industry and firm structures, legal institutions, social norms, and government policies. Students will be able to integrate theoretical knowledge with quantitative and qualitative evidence in order to explain past economic events and to formulate predictions on future ones. Students will be able to evaluate the consequences of economic activities and institutions for individual and social welfare. Students will be able to identify the basic features of alternative representations of human behavior in economics.
2 nd	UC- FMS-201	Fundamentals of Business	To provide students with an understanding of the nature of business activities To enable understanding of marketing environment within which organization's function. To ensure an understanding of human resource management business activities. To communicate importance of entrepreneurship.
	UC- FMS – 202	Business Law- II	 The students will be able to understand how law is important in day to day life The students will be able to identify and understand various laws applicable to individual and business concerns The students will get elementary knowledge about process of various legal transactions that occurs in the business world The students will get knowledge of how to exercise their legal rights in case of breach / violation in transactions in the business world
	UC-FMS-203	Business Statistics -II	 The students will be able to apply quantitative techniques in production, marketing and various other fields in the real-world scenario This subject will empower the students to quantify data and analyse it for the purpose of research It will equip students in organisational decision making and choosing the best alternative under different situations It will also enable students to read statistical data and draw inferences from the same
	UC-FMS-204	Business Communication	 To enhance interpersonal skills that contribute to satisfying personal, social and professional relationships To gain knowledge about channels and methods of communication and learn their applications To draft letters essential for business correspondence To acquire skills to handle interview questions, conferences, group discussions and meetings
	UC-FMS-205	Foundation Course - II (Human Personality and	 To understand the basic behaviour pattern of human personality. To comprehend group behaviour. To understand the issues of stress and stress management To develop an understanding of aspects of organizational behaviour and motivation.
	UC – FMS – 206	Business Environment	 To help students in equipping and taking decisions in the business at the national and International level To scan the environment from the micro and macro point of view To build confidence amongst students with the changing trends in business
	UC-FMS-207	Macro Economics	 Students will be able to identify and explain macroeconomic variables and understand the economic forces that influence and determine them. Students will be able to integrate theoretical knowledge with quantitative and qualitative evidence in order to explain past economic events and to formulate predictions on future ones. Students will be able to evaluate the consequences of economic activities and institutions at the macro level Students will be able to identify the basic features of alternative representations of human behaviour in economics.
3 rd Finance Electives	UC-SMS(F)-301	Equity and Debt Market	Students will be able to understand the difference between Equity market and Debt markets Students will be able to understand Primary and Secondary Market Operations Students will be able to understand valuation of Equity and Bonds
	UC-SMS(F)-302	Corporate Finance	 Develop understanding of capital structure and leverage theories Enable students to make investment decisions considering time value of money. Understanding concept of shareholder wealth maximization
	UC-SMS(F)-303	Basics of Financial System	 Learners will be aware about the financial system prevalent in the world. Learners will be able to understand the various financial instruments Learners will understand the financial regulators & their roles. Learners will be aware of the causes and Impact of Financial Crisis
	UC-SMS(F)-304	Cost Accounting	 Understanding Costing Concepts and its usages. This helps ascertainment of cost, fixation of selling price, proper recording and presentation of cost data to management for measuring efficiency and for cost control and cost reduction, ascertaining the profit of each activity, assisting management in decision making.
Marketing	UC-SMS(M)-305	Marketing Management	 It will make students better future marketers and keen analysts of the marketing environment. It will create awareness amongst students about the complexities of the marketing especially in the digital age of technology and social media. The syllabus is designed is to provide a practical understanding of marketing through understanding of real business case studies.
	UC-SMS(M)-306	Consumer Behaviour	 Discussing and understanding the principal factors that influence consumers as individuals and decision makers with an application to the buying decision process. Apply relevant consumer behavior theories in understanding the impact of marketing strategies. Develop critical and reflexive understandings of the nature of consumption, markets and culture. Apply appropriate research techniques. Appreciate the complexity of consumer behavior.
	UC-SMS(M)-307	Product Innovations Management	 To give students an insight into the main innovation management terminology and concepts To help students recognize and describe different types of idea generation systems To make students understand the diffusion of innovation cycle and concepts of innovation strategy.

	Ī	management	
		e	 Students will define creativity and understand how creativity can be stimulated and internalize how innovation projects should be selected and managed.
			 Explain how marketing concepts related to the marketing mix (product, price, place and promotion)
			apply to sports-related settings.
	UC-SMS(M)-308	Sports Marketing	 Identify characteristics related to sports marketing promotion mix and Understand the grant modulation environment and trands influencing modulators
		Ŭ	 Understand the sports marketing environment and trends influencing marketers. Evaluate sports sponsorship decisions
			5. Understand the process and structure in sporting events
			1. It will make students learn how to improve the performance of employees at work place through
			training and development.
115	UC OMO (ID 200	Training and	2. It will enhance the decision-making skills of students.
HR	UC-SMS (H)-309	Development	Students will learn how good training programme can help the organization in retaining their talent and in coping with this ever-changing environment.
			4. Relevance of management development programmes in the Organizations to develop best managers.
			1. Students will learn the importance of strong leadership and how they can inculcate good habits of
			great leaders in their professional life. 2. It will help students in learning how organisation can help their employees managing work life
	UC SMOOD 210	Motivation and	balance.
	UC-SMS(H) -310	Leadership	3. The course will help in understanding essential skills leaders need, identify several specific
			leadership styles, and the appropriate use of each leadership style.
			 Students will learn Identifying the expectations and needs of the employees and motivating them for improved performance.
			To acquaint students on performance management tools used in the Organization.
		Performance	2. Students will understand purpose, importance and evaluation techniques of performance appraisal
	UC- SMS(H) -311	Management and	3. Awareness of ethical practices followed in performance management and the impact of the same.
		Career Planning	4. To highlight the importance of career planning models and changing career patterns in the modern
			 To highlight the importance of career planning models and changing career patients in the modern Organization.
			-
		Employee	 Be acquainted with the concepts, principles and issues connected with trade unions, collective bargaining, workers participation, grievance redressal, and employee discipline and dispute resolution.
	UC- SMS(H) -312	Welfare and Relations	2. Understand the various processes and procedures of handling Employee Relations
		Relations	 Orderstand the various processes and procedures of nandming Employee Relations Overview on Labour Welfare practices in India
			1. It will help student to be a professional when it comes to working with the banking sector and
			corporates world or even, they can plan to take a full time course from the given topic mention in the
			syllabus.
		Information	Since the basic of the course is design in such a way that they will be able to understand the topic and will not be wasting time in learning Basic of the topic again.
	US-SMS-313	Technology in	 There are well equipped with the hands-on skill for the industry.
	08-5115-515	Business	4. We are making them professional in a way that one can be qualified to be a Literate in the Field of
		Management	Information technology what is needed for the current industry and academia
			Student skills are developed in such a way that industry must absorb them after they finish their final year
			6. Today we want our students to be market oriented so we have e module to know more about ERP.
			Digital Marketing and Power BI.
		Foundation	1. To understand and apply core concepts and methods from ecological and physical sciences to solve
		Course III (Environmental	problems 2. To appreciate key concepts from economic, political, and social analysis as the learners pertain to the
		(Environmental Management)	design and evaluation of environmental institutions and policies.
	UC-SMS-314		3. To reflect critically about one's identity and role as citizen, consumer and environmental actor in an
	0000000		interconnected and complex world
			 To gain knowledge and skills required to pursue professional career and advanced study related to the multi-faceted nature of environmental studies
			 To be more sensitive towards complex environmental issues and develop interdisciplinary approach
			to face today's challenges
			1. Sharpen creative, innovative and problem solving skills of students which will enable them to ideate
		Business Planning	towards new entrepreneurial ventures. 2. Students will learn life skills and how to tackle failures and uncertainties especially in the domain of
	UC-SMS-315	and	 Students will learn the skills and now to tackle failures and uncertainties especially in the domain of entrepreneurship.
		Entrepreneurship Management	3. Identification and selection of best entrepreneurial opportunities through application of design
		management	thinking and other methodologies.
		Accounting for	Learn new modern business models, entrepreneurial culture and ethics. To develop financial analysis skills
	UC-SMS-316	Accounting for Managerial	 To understand the importance and use of ratio analysis.
			 Demonstrate the applicability of analyzing the complexities associated with management of
		Organizational	individual behavior in the organization.
	UC-SMS-317	Behaviour and Human Resource	 Analyze the complexities associated with management of the group behavior in the organization. Students will not a clear understanding of managing the human assurance from setting annelsuos on
		Human Resource Management	Students will get a clear understanding of managing the human resources from getting employees on board to developing and retaining them
			 Evaluate the developing role of human resources in the global era
4 th			1. Students will be able to understand the Commodity and Derivative Markets in detail with its practical
	UC OMO 401 (D)	Commodities and	implication with its participants.
Finance	UC-SMS-401(F)	Derivatives Market	 Students will understand the regulatory aspect of the Commodity and Derivative markets and the process of investing in the same.
		Market	 Students will be able to understand futures and options and the risks associated with them
	UC-SMS-402(F)	Corporate	 To develop understanding of causes, methods and types of restructuring.
	0C-51413-402(F)	Restructuring	2. To help students analyse the effect post restructuring.
	UC-SMS-403(F)	Financial Management	 To develop understanding of Leverages, Management of Working Capital. To hele students analyze the Cash flaw statements.
		Management	 To help students analyse the Cash flow statements. Student will understand auditors" legal liabilities, and be able to apply case law in making a
1			judgment whether auditors might be liable to certain parties;
	1	I	
	1		Student will understand to describe the various levels of persuasiveness of different

		I	3. Types of audit evidence and explain the broad principles of audit sampling techniques;
			 Types of addit evidence and explain the food principles of addit sampling techniques, Student will understand to discuss the need for an independent or external audit and
	UC-SMS-404(F)	Auditing	5. Describe briefly the development of the role of the assurance provider in modern business society
			 Student will be able describe the quality control procedures necessary to ensure that a
			 Student will be able describe the quarky control procedures necessary to ensure that a Competent assurance engagement is performed, and apply professional ethics including Code of
			Conduct to specific scenarios
			 Student will explain the internal audit process including the professional standards Applicable to the internal audit profession.
		Customer	 Students will understand the relevance of building long term relationship with customers and other
Marketing	UC-SMS-405(M)	Relationship	internal and external stakeholders in business.
	00-5115-405(14)	Management and Rural Marketing	2. A thorough understanding of the upcoming rural sector for marketing and distribution.
		Kurai Markeung	 Knowledge about the extremely viable Bottom of the pyramid. To examine how integrated marketing communications help to build brand identity and brand
			relationship, and create brand equity through brand synergy.
			2. To enable students to choose a marketing communications mix to achieve the communications and
		Integrated	 behavioural objectives of the IMC campaign plan. To develop an integrated cross-media strategy and creative message and concept to reach the target
	UC-SMS-406 (M)	Marketing Communication	audience and deliver the brand promise through an IMC campaign.
		Communication	4. Structure an integrated marketing communications campaign plan based on the application of
			marketing concepts, principles, and practices within an organization. 5. Measure and critically evaluate the communications effects and results of an IMC campaign to
			determine its success.
		Event and Social	1. Knowledge about categories of Events and their roles in promotion.
	UC-SMS-407(M)	Marketing	2. Understanding of the concept of social marketing, compare and contrast marketing in a profit
		Ŭ Ŭ	oriented corporate and a non-profit social environment. 1. Define and understand the usage of marketing mix with respect to Tourism Industry
	UC OMO 40000	Tourism	 Define and understand the usage of marceling mix with respect to Fourism industry Understand the importance and use of public relations
	UC-SMS-408(M)	Marketing	3. Define competition analysis and positioning strategies of Tourism Marketing
			4. Better understanding of Global Tourism and its challenges
			 It will make students learn Importance of Human resource Planning. It will help students learn methods of demand and supply forecasting of Human Resource in the
		Human Resource	organisation.
115	LC ONG 400 CT	Planning and	3. Students will learn how good HRP strategy in place can improve the productivity and profitability of
HR	UC-SMS-409(H)	Information	any organisation. 4. Students will learn how to implement changes in the organisation through job design, redesign and
		System	restructuring.
			5. Students will learn concept of Human Resource Information system and its application in the other
			functions of HRM.
			1. Students learn skills and knowledge required to successfully implement an effective talent management system
	UC-SMS-410(H)	Talent Management	 Better understanding of acquiring, engaging and retaining talent.
		Management	3. Relationship of Talent Management contributing to the sustainable competitive advantage of an
		Change and	organization. 1. Student would learn effective strategies, plans and techniques to deal with stress
	UC-SMS-411(H)	Stress	 Student would rear interest ve strategies, plans and techniques to dear with stress Better Stress management in daily lives and organization leading high levels of performance.
		Management	Better understanding of change resistance and ways to handle it.
			 Identifying the types of conflict management styles and its outcome Define, analyze and understand the key practical and theoretical concepts of managing and resolving
	UC-SMS-412(H)	Conflict and	2. Define, analyze and understand the key practical and theoretical concepts of managing and resolving conflict
		Negotiation	3. Apply theoretical and practical components of negotiation and mediation
			4. Relevance of culture and ethics in the negotiation
			1. Learners are expected to demonstrate an understanding of research methodologies.
	UC-SMS 413	Business	
	UC-SMS-413	Business Research Method	 Learners are expected to demonstrate an understanding of research methodologies. Identify the overall process of designing a research study from its inception to the report stage. Imbibe data collection, analysis, interpretation and presentation skills at par with globally accepted standards.
	UC-SMS-413		 Learners are expected to demonstrate an understanding of research methodologies. Identify the overall process of designing a research study from its inception to the report stage. Imbibe data collection, analysis, interpretation and presentation skills at par with globally accepted standards. It provides a solid foundation for development of rational problem-solving skills and analytical
	UC-SMS-413		 Learners are expected to demonstrate an understanding of research methodologies. Identify the overall process of designing a research study from its inception to the report stage. Imbibe data collection, analysis, interpretation and presentation skills at par with globally accepted standards.
	UC-SMS-413 UC-SMS-414	Research Method Foundation Course IV (Ethics	 Learners are expected to demonstrate an understanding of research methodologies. Identify the overall process of designing a research study from its inception to the report stage. Imbibe data collection, analysis, interpretation and presentation skills at par with globally accepted standards. It provides a solid foundation for development of rational problem-solving skills and analytical thinking that can last throughout their education and subsequent professional careers. Create and address relevance of social responsibility to the students Making students understand the good corporate governance and its importance
		Research Method Foundation	 Learners are expected to demonstrate an understanding of research methodologies. Identify the overall process of designing a research study from its inception to the report stage. Imbibe data collection, analysis, interpretation and presentation skills at par with globally accepted standards. It provides a solid foundation for development of rational problem-solving skills and analytical thinking that can last throughout their education and subsequent professional careers. Create and address relevance of social responsibility to the students Making students understand the good corporate governance and its importance Students understand the global challenges in business ethics.
		Research Method Foundation Course IV (Ethics and Governance)	 Learners are expected to demonstrate an understanding of research methodologies. Identify the overall process of designing a research study from its inception to the report stage. Imbibe data collection, analysis, interpretation and presentation skills at par with globally accepted standards. It provides a solid foundation for development of rational problem-solving skills and analytical thinking that can last throughout their education and subsequent professional careers. Create and address relevance of social responsibility to the students Making students understand the good corporate governance and its importance
		Research Method Foundation Course IV (Ethics and Governance) Strategic	 Learners are expected to demonstrate an understanding of research methodologies. Identify the overall process of designing a research study from its inception to the report stage. Imbibe data collection, analysis, interpretation and presentation skills at par with globally accepted standards. It provides a solid foundation for development of rational problem-solving skills and analytical thinking that can last throughout their education and subsequent professional careers. Create and address relevance of social responsibility to the students Making students understand the good corporate governance and its importance Students understand the global challenges in business ethics. Understand the relationship between strategic analysis and strategic implementation Comprehend the distinction between firms and markets Apply strategy principles to understand the benefits and costs of diversification
	UC-SMS-414	Research Method Foundation Course IV (Ethics and Governance)	 Learners are expected to demonstrate an understanding of research methodologies. Identify the overall process of designing a research study from its inception to the report stage. Imbibe data collection, analysis, interpretation and presentation skills at par with globally accepted standards. It provides a solid foundation for development of rational problem-solving skills and analytical thinking that can last throughout their education and subsequent professional careers. Create and address relevance of social responsibility to the students Making students understand the good corporate governance and its importance Students understand the global challenges in business ethics. Understand the relationship between strategic analysis and strategic implementation Comprehend the distinction between firms and markets Apply strategy principles to understand the benefits and costs of diversification Understand the international dimensions of strategic management
	UC-SMS-414	Research Method Foundation Course IV (Ethics and Governance) Strategic	 Learners are expected to demonstrate an understanding of research methodologies. Identify the overall process of designing a research study from its inception to the report stage. Imbibe data collection, analysis, interpretation and presentation skills at par with globally accepted standards. It provides a solid foundation for development of rational problem-solving skills and analytical thinking that can last throughout their education and subsequent professional careers. Create and address relevance of social responsibility to the students Students understand the global challenges in business ethics. Understand the relationship between strategic analysis and strategic implementation Comprehend the distinction between firms and markets Apply strategy principles to understand the benefits and costs of diversification Understand the international dimensions of strategic management
	UC-SMS-414 UC-SMS-415	Research Method Foundation Course IV (Ethics and Governance) Strategic Management Production and	 Learners are expected to demonstrate an understanding of research methodologies. Identify the overall process of designing a research study from its inception to the report stage. Imbibe data collection, analysis, interpretation and presentation skills at par with globally accepted standards. It provides a solid foundation for development of rational problem-solving skills and analytical thinking that can last throughout their education and subsequent professional careers. Create and address relevance of social responsibility to the students Making students understand the good corporate governance and its importance Students understand the global challenges in business ethics. Understand the relationship between strategic analysis and strategic implementation Comprehend the distinction between firms and markets Apply strategy principles to understand the benefits and costs of diversification Understand the international dimensions of strategic management
	UC-SMS-414	Research Method Foundation Course IV (Ethics and Governance) Strategic Management Production and Quality	 Learners are expected to demonstrate an understanding of research methodologies. Identify the overall process of designing a research study from its inception to the report stage. Imbibe data collection, analysis, interpretation and presentation skills at par with globally accepted standards. It provides a solid foundation for development of rational problem-solving skills and analytical thinking that can last throughout their education and subsequent professional careers. Create and address relevance of social responsibility to the students Students understand the global challenges in business ethics. Understand the relationship between strategic analysis and strategic implementation Comprehend the distinction between firms and markets Apply strategy principles to understand the benefits and costs of diversification Understand the international dimensions of strategic management Study the major contemporary trends in strategic management Learners will become aware of the importance of Production and Quality Management in the
	UC-SMS-414 UC-SMS-415	Research Method Foundation Course IV (Ethics and Governance) Strategic Management Production and	 Learners are expected to demonstrate an understanding of research methodologies. Identify the overall process of designing a research study from its inception to the report stage. Imbibe data collection, analysis, interpretation and presentation skills at par with globally accepted standards. It provides a solid foundation for development of rational problem-solving skills and analytical thinking that can last throughout their education and subsequent professional careers. Create and address relevance of social responsibility to the students Students understand the global challenges in business ethics. Understand the relationship between strategic analysis and strategic implementation Comprehend the distinction between firms and markets Apply strategy principles to understand the benefits and costs of diversification Understand the maximum of strategic management Study the major contemporary trends in strategic management Learners will become aware of the importance of Production and Quality Management in the sustainable working of an organization. Learners will be able to enhance knowledge of Inventory Management and Purchase techniques.
	UC-SMS-414 UC-SMS-415	Research Method Foundation Course IV (Ethics and Governance) Strategic Management Production and Quality	 Learners are expected to demonstrate an understanding of research methodologies. Identify the overall process of designing a research study from its inception to the report stage. Imbibe data collection, analysis, interpretation and presentation skills at par with globally accepted standards. It provides a solid foundation for development of rational problem-solving skills and analytical thinking that can last throughout their education and subsequent professional careers. Create and address relevance of social responsibility to the students Making students understand the good corporate governance and its importance Students understand the global challenges in business ethics. Understand the relationship between strategic analysis and strategic implementation Comprehend the distinction between firms and markets Apply strategy principles to understand the benefits and costs of diversification Understand the international dimensions of strategic management Study the major contemporary trends in strategic management Learners will become aware of the importance of Production and Quality Management in the sustainable working of an organization.
	UC-SMS-414 UC-SMS-415 UC-SMS-416	Research Method Foundation Course IV (Ethics and Governance) Strategic Management Production and Quality Management	 Learners are expected to demonstrate an understanding of research methodologies. Identify the overall process of designing a research study from its inception to the report stage. Imbibe data collection, analysis, interpretation and presentation skills at par with globally accepted standards. It provides a solid foundation for development of rational problem-solving skills and analytical thinking that can last throughout their education and subsequent professional careers. Create and address relevance of social responsibility to the students Making students understand the good corporate governance and its importance Students understand the global challenges in business ethics. Understand the relationship between strategic analysis and strategic implementation Comprehend the distinction between firms and markets Apply strategy principles to understand the benefits and costs of diversification Understand the international dimensions of strategic management Study the major contemporary trends in strategic management Learners will become aware of the importance of Production and Quality Management in the sustainable working of an organization. Learners will be able to enhance knowledge of Six Sigma, Lean Thinking and TQM. Develop ideas of the basic characteristics of Indian economy and its potential.
	UC-SMS-414 UC-SMS-415	Research Method Foundation Course IV (Ethics and Governance) Strategic Management Production and Quality	 Learners are expected to demonstrate an understanding of research methodologies. Identify the overall process of designing a research study from its inception to the report stage. Imbibe data collection, analysis, interpretation and presentation skills at par with globally accepted standards. It provides a solid foundation for development of rational problem-solving skills and analytical thinking that can last throughout their education and subsequent professional careers. Create and address relevance of social responsibility to the students Making students understand the global challenges in business ethics. Understand the relationship between strategic analysis and strategic implementation Comprehend the distinction between firms and markets Apply strategy principles to understand the benefits and costs of diversification Understand the international dimensions of strategic management Study the major contemporary trends in strategic management Learners will be able to enhance knowledge of Inventory Management and Purchase techniques. Learners will be able to enhance knowledge of Six Sigma, Lean Thinking and TQM. Develop ideas of the basic characteristics of Indian economy and its potential. Understand the agriculture and analyze the progress and changing nature of agricultural sector and its contribution to the Economy as a whole.
	UC-SMS-414 UC-SMS-415 UC-SMS-416	Research Method Foundation Course IV (Ethics and Governance) Strategic Management Production and Quality Management Indian Economic	 Learners are expected to demonstrate an understanding of research methodologies. Identify the overall process of designing a research study from its inception to the report stage. Imbibe data collection, analysis, interpretation and presentation skills at par with globally accepted standards. It provides a solid foundation for development of rational problem-solving skills and analytical thinking that can last throughout their education and subsequent professional careers. Create and address relevance of social responsibility to the students Making students understand the global challenges in business ethics. Understand the relationship between strategic analysis and strategic implementation Comprehend the distinction between firms and markets Apply strategy principles to understand the benefits and costs of diversification Understand the major contemporary trends in strategic management Learners will become aware of the importance of Production and Quality Management in the sustainable working of an organization. Learners will be able to enhance knowledge of Six Sigma, Lean Thinking and TQM. Develop ideas of the basic characteristics of Indian economy and its potential. Understand the basic characteristics of Indian economy and its potential. Understand the basic characteristics of Indian economy and its potential.
	UC-SMS-414 UC-SMS-415 UC-SMS-416	Research Method Foundation Course IV (Ethics and Governance) Strategic Management Production and Quality Management Indian Economic	 Learners are expected to demonstrate an understanding of research methodologies. Identify the overall process of designing a research study from its inception to the report stage. Imbibe data collection, analysis, interpretation and presentation skills at par with globally accepted standards. It provides a solid foundation for development of rational problem-solving skills and analytical thinking that can last throughout their education and subsequent professional careers. Create and address relevance of social responsibility to the students Making students understand the global challenges in business ethics. Understand the relationship between strategic analysis and strategic implementation Comprehend the distinction between firms and markets Apply strategy principles to understand the benefits and costs of diversification Understand the international dimensions of strategic management Study the major contemporary trends in strategic management Learners will be able to enhance knowledge of Inventory Management and Purchase techniques. Learners will be able to enhance knowledge of Six Sigma, Lean Thinking and TQM. Develop ideas of the basic characteristics of Indian economy and its potential. Understand the agriculture and analyze the progress and changing nature of agricultural sector and its contribution to the Economy as a whole.
	UC-SMS-414 UC-SMS-415 UC-SMS-416 UC-SMS-417	Research Method Foundation Course IV (Ethics and Governance) Strategic Management Production and Quality Management Indian Economic System Investment Analysis And	 Learners are expected to demonstrate an understanding of research methodologies. Identify the overall process of designing a research study from its inception to the report stage. Imbibe data collection, analysis, interpretation and presentation skills at par with globally accepted standards. It provides a solid foundation for development of rational problem-solving skills and analytical thinking that can last throughout their education and subsequent professional careers. Create and address relevance of social responsibility to the students Making students understand the good corporate governance and its importance Students understand the global challenges in business ethics. Understand the relationship between strategic analysis and strategic implementation Comprehend the distinction between firms and markets Apply strategy principles to understand the benefits and costs of diversification Understand the international dimensions of strategic management Study the major contemporary trends in strategic management Learners will become aware of the importance of Production and Quality Management in the sustainable working of an organization. Learners will be able to enhance knowledge of Six Sigma, Lean Thinking and TQM. Develop ideas of the basic characteristics of Indian economy and its potential. Understand the basic features of Service Led Growth In India and the Sustainability aspects Evaluating trends In Indian Monetary Policy and Financial Markets. To acquain the learners with various concepts of finance To acquain the tearms which are offen confronted while reading newspaper, magazines etc for
	UC-SMS-414 UC-SMS-415 UC-SMS-416	Research Method Foundation Course IV (Ethics and Governance) Strategic Management Production and Quality Management Indian Economic System Investment Analysis And Portfolio	 Learners are expected to demonstrate an understanding of research methodologies. Identify the overall process of designing a research study from its inception to the report stage. Imbibe data collection, analysis, interpretation and presentation skills at par with globally accepted standards. It provides a solid foundation for development of rational problem-solving skills and analytical thinking that can last throughout their education and subsequent professional careers. Create and address relevance of social responsibility to the students Making students understand the global challenges in business ethics. Understand the relationship between strategic analysis and strategic implementation Comprehend the distinction between firms and markets Apply strategy principles to understand the benefits and costs of diversification Understand the international dimensions of strategic management Study the major contemporary trends in strategic management Learners will be come aware of the importance of Production and Quality Management in the sustainable working of an organization. Learners will be able to enhance knowledge of Six Sigma, Lean Thinking and TQM. Develop ideas of the basic characteristics of Indian economy and its potential. Understand the basic characteristics of Servise Led Growth In India and the Sustainability aspects Evaluating trends In Indian Monetary Policy and Financial Markets. To acquaint the learners with various concepts of finance To acquaint the learners with various concepts of finance To acquaint the learners with are often confronted while reading newspaper, magazines etc for better correlation with the practical world
	UC-SMS-414 UC-SMS-415 UC-SMS-416 UC-SMS-417	Research Method Foundation Course IV (Ethics and Governance) Strategic Management Production and Quality Management Indian Economic System Investment Analysis And Portfolio Management	 Learners are expected to demonstrate an understanding of research methodologies. Identify the overall process of designing a research study from its inception to the report stage. Imbibe data collection, analysis, interpretation and presentation skills at par with globally accepted standards. It provides a solid foundation for development of rational problem-solving skills and analytical thinking that can last throughout their education and subsequent professional careers. Create and address relevance of social responsibility to the students Making students understand the good corporate governance and its importance Students understand the global challenges in business ethics. Understand the relationship between strategic analysis and strategic implementation Comprehend the distinction between firms and markets Apply strategy principles to understand the benefits and costs of diversification Understand the international dimensions of strategic management Study the major contemporary trends in strategic management Learners will become aware of the importance of Production and Quality Management in the sustainable working of an organization. Learners will be able to enhance knowledge of Six Sigma, Lean Thinking and TQM. Develop ideas of the basic characteristics of Indian economy and its potential. Understand the basic features of Service Led Growth In India and the Sustainability aspects Evaluating trends In Indian Monetary Policy and Financial Markets. To acquaint the learners with various concepts of finance To understand the practical world Understand the trems with various concepts of finance To understand the trems which are often confronted while reading newspaper, magazines etc for better correlation with the practical world
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 To understand distinctive features of services and key elements in services may 	arketing
V UBMSFSV.8 Service Marketing 2. To provide insight into ways to improve service quality and productivity	incering
3. To understand marketing of different services in Indian context	
1. To understand increasing significance of E-Commerce and its applications i	in Business and Various
Sectors	
E-Commerce and 2. To provide an insight on Digital Marketing activities on various Social M	Aedia platforms and its
V UBMSFSV.9 Digital Marketing – To porte an insign of Digital Marketing activities of various social is	····· /····
3. To understand Latest Trends and Practices in E-Commerce and Digital Ma	arketing, along with its
Challenges and Opportunities for an Organisation	
Sales & 1. To develop understanding of the sales & distribution processes in organizatio	ns
V UBMSFSV.10 Distribution 2. To get familiarized with concepts, approaches and the practical aspects of the	
Management variables in sales management and distribution channel management	,
1. To understand concept of Customer Relationship Management (CRM) a	and implementation of
Customer Customer Relationship Management	
V UDMSESV 11 Delationshin	CDM (
2. To provide insight into CRM marketing initiatives, customer service and design	gning CKM strategy
 To understand new trends in CRM, challenges and opportunities for organiza 	itions
1. To understand basics of industrial marketing, Marketing Environment,	
Positioning, channel strategy marketing communication and pricing	2 2 8 8
V Industrial 2. To provide knowledge of industrial market structure and how they function	
Marketing 3. To provide understanding of the various attributes and models applicable in In	ndustrial Marketing
4. To acquaint the students with trends in Industrial Marketing	e
 To understand marketing strategies and their impact on business models 	
Strategic 2. To learn strategic marketing tactics related to product, price, service, brand,	, positioning, incentives
V Marketing and communication for business growth	
Management 2 Tabar de anticipat de la tradicional de la tradicionad de la tradicionad de la tradiciona	
3. To learn the various marketing strategies adopted by Companies to create a co	Smpetitive advantage
Finance for HR 1. To orient HR professionals with financial concepts to enable them to make p	rudent HR decisions
Professionals and	rudent III decisions
V UBMSFSV.12 Compensation 2. 10 understand the various compensation plans	
Management 3. To study the issues related to compensation management and understand	the legal framework of
compensation management	
 To understand human resource management from a strategic perspective 	
2. To link the HRM functions to corporate strategies in order to understand HR	as a strategic resource
Strategic Human	-
V UBMSFSV.13 Resource 3. To understand the relationship between strategic human resource managem	nent and organizational
Management and performance	
HR Policies 4. To apply the theories and concepts relevant to strategic human reso	ource management in
contemporary organizations	
5. To understand the purpose and process of developing Human Resource Polic	ies
Performance 1. To understand the concept of performance management in organizations	
V UBMSFSV.14 Management & 2. To review performance appraisal systems	
Career Planning 3. To understand the significance of career planning and practices	
V UBMSFSV.15 Industrial 1. To understand the concept of performance management in organizations 2. To review performance appraisal systems	
Relations	
3. To understand the significance of career planning and practices 1. To understand key talent management & competency management concepts	
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V Competency 3. To understand the role of talent management and competency management	t in building sustain-1-1-
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			5. To understand the significance of Human Resource Auditing as a Tool of Human Resource Valuation
VI	UBMSFSVI.2	Indian Ethos in Management	 To understand the concept of Indian Ethos in Management To link the Traditional Management System to Modern Management System To understand the Techniques of Stress Management 4 To understand the Evolution of Learning Systems in India
VI	IUBMSESVLI	Operations	 To help students to understand operations research methodologies To help students to solve various problems practically To make students proficient in case analysis and interpretation

Program: B. Com.

Specific Program: B Com Program Specific Outcome (PSO):

1)The Bachelor of Commerce course is designed to provide competencies in basic commerce discipline as also impart requisite skills in problem solving, leadership, communications, decision making in organizations with appropriate subjects covering areas of economics, accounting, business management, human resource, taxation, marketing management and Information Technology.

2)The focus on Project Based Learning and Industrial Training will help the students become eligible and fully equipped for employment in industries, higher studies for entrepreneurship.

3)The course structure will definitely equip the students to accept the challenges of globalisation and constant change and will enable them to be well placed in business, academics and administration in the country as well as abroad.

Semester	Course-Code	Course Title	Course Outcome (in bullets)
1	UC-FCO-107	Mathematical and Statistical Techniques I	 At the end of the course, learner will be able to apply mathematical and statistical techniques in a diverse variety of disciplines solve problems on their own by analysing the topics calculate financial values required in business recognize the importance and value of mathematical and statistical thinking recognize and appreciate the connections between mathematical and statistical theory and applications understand the independently read mathematical and statistical Improve presentation and interpersonal communication skills through presentations for the assignments/projects.
П	UC-FCO-207	Mathematical and Statistical Techniques II	 At the end of the course, learner will be able to apply mathematical and statistical techniques in a diverse variety of disciplines solve problems on their own by analysing the topics calculate financial values required in business recognize the importance and value of mathematical and statistical thinking recognize and appreciate the connections between mathematical and statistical theory and applications independently read mathematical and statistical literature

Program: BSc Specific Program: BSc in Biotechnology PSO Biotechnology

- Acquire knowledge on the fundamentals of biotechnology for sound and solid base which enables them to understand the emerging and advanced engineering concepts in life sciences.
 Acquire knowledge in domain of biotechnology enabling their applications in industry and research.
 Students will be able to corrective use biological instrumentation and proper laboratory techniques.
 Students will be able to recognize the relationship between structure and functions at all levels that is molecular, cellular and genetics.
 Empower the students to acquire technological knowhow by concerting disciplinary and interdisciplinary aparets of biotechnology
 Recognize the importance of Bioethics, IPR, entrepreneurship, Communication skills so as to usher next generation of Indian industrialists.

CO Biotechnology

Semester	Course-Code	Course Title	Course Outcome (in bullets)
	US-FBT-101	Biotechnology: Introduction and applications	Introduction to the Fickls of Biotechnology, its scope, and its application in the field of agriculture and food biotechnology To develop a good perspective of the field of Biotechnology and ethical issues related to biotechnology To introduce the concept of Bioinformatics. To understand the principles underlying design of Fermenter and Fermentation Process
Ι	US-FBT-102	Genetics and molecular biology	To develop an understanding of the eukaryotic and prokaryotic genetics. To discuss the structure of Chromosomes and Chromosomal Aberrations
I	US-FBT-103	Cell: Ultra structure and Signalling	To learn to differentiate between rolearvois and eukarvois To learn to differentiate between rolearvois and eukarvois To develop an understanding of the Cytoskeleton and Cell Membrane Understand the signalling roces in bacteria and plants.
I	US-FBT-104	Microscopic examination, nutrition and control of	 To develop skills associated with laboratory techniques viz. sterilization, microbial cell culture & cell lines techniques, microscopy and staining techniques to view specimens under a microscope
Ι	US-FBT-105	Basic Chemistry	 Discuss the concepts in Stereochemistry by providing an understanding of the relative spatial arrangement of atoms i molecules. To help students understand the types and significance of chemical bonds. Understand Stereochemistry of organic molecules and their practical significance Develop an understanding about the nature and role of chemical bonds in the formation of compounds.
Ι	US-FBT-106	Biomolecules	 Understand the knowledge related to biological role of all major Biomolecules. Develop an understanding about Carbohydrates, proteins, amino acids, lipids and nucleic acids.
Ι	US-FBT-107	Societal Awareness	To learn different concepts of Societal Awareness Develop a sense of awareness about the Problems in Society
п	US-FBT-201	Tissue Culture techniques	Develop an understanding of Plant and Animal Tissue Culture Develop basic skills required to carry out these techniques
п	US-FBT-202	Genetic engineering	 Develop an understanding of recombinant DNA technology and its applications Discuss the principles of various techniques in molecular biology and its application.
Ш	US-FBT-203	Physiology (Plants and animals) and Ecology	Develop an understanding of the different physiological processes in the eukaryotic living system viz. Plants, animals Discuss the importance of the various interactions of the ecosystem. Awarness of advanced techniques like remote sensing that are used for animal and plant protection.
П	US-FBT-204	Genetics & immunology	Develop an understanding of various concepts of genetic variations in populations and the role of population genetics in Conservation Biology. Understand the role of immune system. Understand how to identify and classify mutations in DNA followed by mechanism of DNA
П	US-FBT-205	Analytical Chemistry	 Understand two common and significant analytical techniques viz. Chromatography and Colorimetry To learn how to make solutions, buffers and perform titrimetric analysis.
Ш	US-FBT-206	Physical Chemistry	Develop an understanding of kinetics involved in various types of chemical reactions Learn to distinguish reactions involving oxidation and reduction processes
п	US-FBT-207	Globalization, Ecology and Sustainable Development	Understand the concept of sustainable development Impart of Globalization to make students aware about the Problems in Society.
ш	USBT301	Biophysics	 Develop an understanding of the different aspects of classical Physics. To learn various applications and techniques in the field of Biology such as Microscopy, Spectroscopy and Electrophoresis.
ш	USBT302	Applied Chemistry-I	Develop an understanding of the different aspects of Organic and Green Chemistry. Discuss role of Organic Compounds in Biology and Synthesis of Organic Compounds. Discuss role of Green Chemistry and its application in Industry
ш	USBT303	Immunology	Understand the role of different types of Cells, Effector Molecules and Effector Mechanisms in Immunology. Understand the principles underlying various Immunotechniques
ш	USBT304	Cell biology and cytogenetics	Develop an understanding of the Cytoskeleton and Cell Membrane. Discuss the structure of Chronosomes and types of Chromosomal Aberrations. Discuss the principles underlying Sex Determination, Linkage and Mapping.
Ш	USBT305	Molecular Biology	Discuss the mechanisms associated with Gene Expression at the level of Transcription and Translation. Discuss the mechanisms associated with Regulation of Gene Expression in Prokaryotes and Eukaryotes
ш	USBT306	Bioprocess Technology	To develop an understanding of the various aspects of Bioprotess Technology. Develop skills associated with screening of industrially important strains. Understand principles underfying design of Fermenter and Fermentation Process
ш	USBT307	Research Methodology	 To understand basic principles of Research Methodology and learned to identify a Research Problem. Understand a general definition of Research Design. Understand the overall Process of Designing a Research Study from its inception to its Report
IV	USBT401	Biochemistry	 Discuss the Metabolic Pathways of Carbohydrates, Amino Acids, Lipids and Nucleotides. Learn the role of Energy Rich Molecules in Metabolism.
IV	USBT402	Applied Chemistry- II	Develop an understanding of the different aspects of Analytical Chemistry. Gain knowledge of Natural Product. Chemistry and related acquired skills. Gain an understanding of basic concepts in Polymer Chemistry and Nanomaterials.
IV	USBT403	Medical microbiology	Cain insight into disease Factors and Processes and Diseases Caused by Microorganisms. To learn the factors playing a role in causing a disease. To discuss the various assocts of Systemic Infections including Causative Agents, Symptoms and Prophylaxis
IV	USBT404	Environmental Biotechnology	Gain the technical capability of handling, isolating and identifying various Bacteria Gain an understanding of the causes, types and control methods for Environmental Pollution. To learn application of different life forms in Environmental Remediation
IV	USBT405	Bioinformatics and Biostatistics	 To gain an understanding of the basic concepts of Bioinformatics and Biostatistics. Understand the tools used in Bioinformatics.
IV	USBT406	Molecular Diagnostics	Apply the various Statistical Tools for Analysis of Biological Data To gain an understanding of the basic Principles used in Molecular Diagnosis. To gain critical thinking and analytical skills to understand new Diagnostic Methods. Apply the knowledge and skills gained in the course developing new diagnostic kits
IV	USBT407	Entrepreneurship Development	Apply the knowledge and skills gamed in the course developing new diagnosite kits Develop an understanding of the systematic process and to select and screen a Business Idea. Design strategies for successful implementation of ideas.
v	USBT-501	Cell biology	Understand the cellular components underlying mitotic cell division and understand cell cvcle To study concepts of cell biology with selected examples of changes or losses in cell function which include responses to environmental or physiological changes, or alterations of cell function brought about by mutation. Understanding core topics like cancer biology and apoptosis. Understanding the basis concepts of developmental biology.
v	USBT-502	Medical Microbiology & Instrumentation	Learn about different types, structure of viruses Learn about treatment using drugs, inportance of drugs and their mode of action. Learn and understood various important analytical techniques like spectroscopy, HPLC used in most of research

v	USBT-503	Biology	 Understand the concept of various tools and techniques used in molecular biology, nucleic acid sequencing.
v	USBT-504	Marine Biotechnology	Understand the nature and habitat of marine ecosystem To learn about different types of medicinal products and food products that can be derived from marine environment To learn the importance of marine products in cosmetic industry.
v	APPLIED COMPONENT	Biosafety	To learn about various biosafety rules and techniques along with leaning good lab practices. To learn various methods for detection of contamination and regulation of biosafety in food or processing industry
VI	USBT-601	Biochemistry	To learn in depth, the biochemical pathways of cellular communication and system functioning · Learn different types of metabolism in details with special reference to carbohydrates · Learn about protein structure and their biochemistry Learn about endocrine system and different types of dietary necessary elements.
VI	USBT-602	Industrial Microbiology	Study different types of fermentation processes · Learn various commercial fermentation products with respect to dairy industry. Understand the methods and procedures of recovering and formulating the final industrial product Study downstream processing along with good manufacturing practices required for industries.
VI	USBT-603	Pharmacology and Neurochemistry	Understand the general principles of pharmacology Understand the concept of toxicology Understand the mechanism of drug absorption and distribution · Understand basic and regulatory toxicology.
VI	USBT-604	Environmental Biotechnology	Understand the importance of Environmental Biotechnology and parameters Study the importance of biogas and biofuels as renewable sources of energy Learn the various treatment procedures applied for wastewater and industrial effluents Understand the basic ways in which hazardous waste can be managed.
VI	APPLIED COMPONENT	Agribiotechnology	Learn about the various agricultural systems Learn about the various tools and processes involved in plant biotechnology, effects of different stressed on plants. Study various molecular markers used in plant breeding Learn about applications of bio fertilizers and bio resticides.

Program: B. Sc. Specific Program: B. Sc. Botany (First Year) Program Specific Outcome (PSO): 1. Studying examples from different groups of plants, in relation to their complexity and functions, will help students to learn more about evolution and function. 2. Applications of these primary groups of plants in various fields will help students to take up/think about related research projects. 3. Students will learn the significance of not only why but also how'to study the detailed apact of plants, at the cellular, molecular and genetic level. 4. Plants are very good model systems; students will know to modify a specific plant model to the advantage of the mankind. 5. Students will be better prepared to extract maintum heenfts and use plants as resource material. 6. Students will be now equipped with the knowledge about plants, to protect, conserve and treat plants as the most important factor to maintain the balance in the environment .

Course Outcome (COs Semester	Course-Code	Course Title	Course Outcome (in bullets)
1 st	US-FBO-101	Plant Diversity I	Life cycle of Natzec and Life cycle of Spirogyra Economic importance of Algae S. Smith's Classification A. General characters, classification, Ecology and significance S. Life cycle of Rhizoya and Aspergillus E. Economic importance of Fung, Mode of Nutrition in Fungi, structure of fungal cell wall 7. General characters of Rynophyta and class Hepaticae / Bryopsida Life cycle of Riccio / Funorio 8. Ecological and economic importance of Bryophyta, Economic Botany: Plant Resource Utilization
	US-FBO-102	Form and Function I	Cell Biology Concernal structure of plant cell: cell wall, plasma membrane (lipid bilayer and Fluid mosaic model, membrane proteins and their functions), cell inclusions Sutrastructure and functions of Endoplasmic reticulum, Chioroplast and mitochondria Ecology Energy flow in an Ecosystem Organization, plant categories based on habitat, plant succession Types of Ecosystems (aquatic and terrestrial) applied field in ecological studies, vegetation mapping, endemism Ecosystem Terrestrial Ecosystem And Junat Consystem Terrestrial Ecosystem And Junatic Construm So enertics and Biostatistics So Phenotype (Genotype, Post Mendelian Interactions, Incomplete dominance, codominance, multiple allelism, epistatic interactions calculations - mean, median and mode
2 nd	US-FBO-201	Plant Diversity II	Pteridophytes, Structure life cycle, systematic position and alteration of generations in Nephrolepis Structure life cycle, systematic position and alteration of generations in Riccia Gymnosperms Structure life cycle, systematic position and alteration of generations in Riccia Economic importance of Gymnosperms S. Angiosperms, Ised, Inflorescence and study of families Malvaceae, Popilionaceae, Fobaceae, Mimosae, Asteraceae, Amarylidaceae
	US-FBO-202	Form and Function II	1. Anatomy of Simple and complex itsues. Primary structure of Dicot and Monocot root, stem and leaf, Epidermal issue systems: Epidermal outgrowths, Dicot and Monocot stomata

Program: BSc. Specific Program: BSc Chemistry Program Specific Outcome

1. Introduction to the fundamentals of chemistry.

2. Getting familiar with chemical calculations.

3. Studying the basic topics of organic chemistry such as nomenclature, reaction mechanisms, stereochemistry and aromaticity.

4. Understanding the periodicity and gradation in properties of elements.

5. To apply concepts to summarize, analyze and inculcate problem solving approach in newer developments and innovations in the future.

6. Developing the understanding of Chemical thermodynamics and chemical equilibrium.

7. It equips the students with the fundamentals of physical, inorganic, organic and analytical chemistry thus helping in examining the most basic qualities of matter, mastering strategies of chemical synthesis, solving chemical mysteries in the laboratory and learning to communicate facts & theories about chemistry to others.

8. The undergraduate curriculum is demanding both intellectually and in terms of time.

9. Help the students to develop skills and competencies to build a progressive and successful career in the field of chemistry.

COs

Semester	Course-Code	Course Title	Course Outcome (in bullets)
1st	US-FCH -101	Physical, Inorganic, Organic Chemistry	 Conceptual understanding of concepts of Thermodynamics. Understanding of stoichiometric calculations which are important from practical point of view. Fundamentals of organic reaction mechanism along with study of structure, bonding & IUPAC nomenclature of organic compounds.

1st	US-FCH -102	Physical, Inorganic, Organic Chemistry	 Stakeholders will be able to understand constitutive of liquid as well as reactions which are time dependent. Basic understanding of structure of atom and its correlation with the periodicity of elements. Types of isomerism in organic compounds along with representation of configuration of organic molecules and their inter-conversions along stere ochemically important concepts used as
2nd	US-FCH -201	Physical, Inorganic, Organic Chemistry	Enantiomers, Diastereoisomers and racemic mixture. > Fundamental properties of gaseous state are explained in detail. > Introduction to identification of radicals (cations & anions) and its application extended to practical as semi-mixro analysis.
2nd	US-FCH -202	Physical, Inorganic, Organic Chemistry	Chemistry of aliphatic hydrocarbons along with an idea of organic reactions with mechanisms. Learners will be aware of photochemical reactions & their properties and effects. They will also understand solid state chemistry and ionic equilibria. Introduction to contananosi cuentusty in oticer to mananan commany on same tops: in inguest Construct of committing and configuration in achieves for any solid state.
3rd	US-SCH-301	Physical, Inorganic, Organic Chemistry	 Concept of aromaticity and conformational analysis of organic compounds. Applications of Second law of Thermodynamics for the calculation of various thermodynamic parameters. Concept of Conductance and its applications in practicals. Principles of VBT & MOT are dealt with in order to maintain continuity with higher classes. Study of halogenated hydrocarbons and organometallic compounds with reactions and
3rd	US-SCH-302	Physical, Inorganic, Organic Chemistry	mechanisms. Idea of preparation and reactions of alcohols and phenols. → Classification of various complex reactions & the understanding of the effects of temperature on the rate of reaction. Application of the same is extended to problems. → Thermodynamics of Binary liquid mixtures & understanding the relation between the composition & vapor pressure/emperature. → Understanding the trends in periodic properties of Group 13, 14 & 15. → Methods of preparation & reactions of carbonyl compounds along with idea of phase transfer catalysts like Crown ethers.
3rd	US-SCH-303	Analytical Chemistry	 Study of classical methods i.e Titrimetry with the underlying basic principles. Application of fusitistics to treatment of analytical data. Instrumental methods of analysis with special stress on spectroscopic techniques.
4th	US-SCH-401	Physical, Inorganic, Organic Chemistry	 Introduction of Phase rule and its applications in one/two component systems. Introduction of Phase rule and its applications in one/two component systems. Study of hororis of coordination chemistry & bonding in coordination compounds. Nomenclature, preparation, and reactions of carboxylic acids and suphonic acids with emphasis on reaction mechanism.
4th	US-SCH-402	Physical, Inorganic, Organic Chemistry	 Recapitulation of characteristics of various cubic systems & also explanation and application of X-kay Diffracion method for studying crystal lattice structure. Understanding of mechanism and kinetics of Acid-Base catalyzed reactions and enzyme catalysis. Also introduction of the particle size in nanoparticles as catalyst. Understanding the acidity of cations and basicity of anions. Also environmental chemistry of volatile loxo acids & their use, Preparation and reactions of animes, diazonium salts and some heterocycles.
4th	US-SCH-403	Analytical Chemistry	 Study of separation techniques commonly used in the laboratory. Deals with understanding electrochemical methods of instrumental analysis. Databasing to the drouged understanding of discipical methods in electrochemical methods.
Sth	USCH - 501	> Physi cal Che mistr y	 Developing the thorough understanding of classical methods ic Gravinnetic analysis. Understanding of the basic concepts, energy associated and wave numbers of the transitions observed in the Rotational. Vibrational-Rotational And Raman Spectroscopy. This will also help students in solving various numericals based on the above topics. This gives clear idea about application of thermodynamics on colligative properties From this learner gets the idea about kinetics of unimolecular and bimolecular processes using collision theory. Nuclear chemistry comprehends the knowledge of nuclear radiation, radioactivity and various applications of concept of adsorption (Physical & Chemical) and how variation of pressure affects the adsorption. This unit will also help students understand theories.
5th	USCH - 502	Inorganic Chemistry	 ➤ Importance of symmetry and various point groups existing in molecules. ➤ Molecular orbit concept, closest packing in rigid spheres in solids along with stoichiometric point defects. ➤ Inner-transition elements and its characteristics and non-aqueous solvents. ➤ Chemistry of group 16 & 17 elements and preparation, structures and properties of Interhalogen compounds.
5th	USCH - 503	Organic Chemistry	 Study of mechanism of Organic reactions including Pericyclic reactions and its classification. An idea of photochemical reactions with important reactions such as Di – π methane rearrangement, Norrish Type- I & Norrish Type –II process cleavages. Students learn about molecular chirality & clements of symmetry along with stereochemistry of cummulenes and biphenyls. An idea about agrochemicals along with preparation & reactions of Pyridine-N-oxide, quinolone and isoquinoline. Idea about types of organic synthesis, IUPAC nomenclature of compounds like bicyclo, biphenyl, spiro and certain heterocyclic compounds. Spectroscopy of organic compounds and natural product chemistry of terpenoids, alkaloids and hormones.
5th	USCH - 504	Analytical Chemistry	 The detailed theoretical information of complexometric and redox titrations learnt by the students followed by practical aspect using potentiometric technique. Basic and valuable knowledge about various separation techniques such as Solvent extraction, Solid Phase extraction, High Performance Liquid Chromatography is learnt by the students. The concept of quality is elaborated. The students are trained for preparation of solutions of normality, formality, molarity, pmp, npb etc. the interconversion of various concentration ints is taught at this stage. Instrumental methods like FES, AAS, fluorimetry, nephelometry, phosphorimetry, and turbidimetry are explained.
5th	USACDD 501	Drugs & Dyes (Applied Component)	General introduction to Drugs along with Routes of drug administration including dosage forms with brief introduction of Pharmacodynamic agents & classification of CNS drugs including synthesis of one drug. J led of other Pharmacodynamic agents wich as Analgesics, Antipyretics, Arti-finlammatory agents, Antihistaminic drugs, Cardiovascular drugs, Ant diabetic agent, Antiparkinsonism drugs, Drugs for Respiratory system along with synthesis of one important drug from each category. J Introduction to dystuft Chemistry including physical properties of dyes along with nonenclature and color index. Types of Dyes and fibres along with idea Optical Brighteners & Classification of Dyes based on mode of application and Dyeing methods. Study of Theories for color & chemical constitution of dyes along with Init processes and Dye intermediate.
6th	USCH - 601	Physical Chemistry	Singly of inclusion on one of entrimment continuation of types andig with Cum processes and Dype intermediants. This course aims a giving an advanced understanding of electrochemistry and its applications. The basic objective of polymer is to acquire basic knowledge, properties, types and its applications. Understanding limitations of classical mechanics and introduction of quantum wave mechanics with the focus on standing and progressive wave equations. This unit will also help students understand the concept of operators and applications to basic principles and instrumentation of NMR and ESR.
6th	USCH - 602	Inorganic Chemistry	 Study of organometallic compounds formed by main group elements with different characteristics along with metallocene molecules and their synthesis and characteristics. >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
6th	USCH - 603	Organic Chemistry	Study of Stereo selectivity and Stereo specification to complexes. Study of Stereo selectivity and Stereo specification properties and preparation of amino acids. Potaled mechanisms of certain molecular rearrangement reactions & study of Carbohydrates with respect to classification, structure, mutarotation in D-Glucose with chain elongation, shortening & some reactions of D-Glucose – D-Fructose. Study of polymers and organic spectroscopy with problems on structure elucidation. Basic information of catalysts and reagents used in organic synthesis and structure & constitution of Nucleic acids.
6th	USCH -604	Analytical Chemistry	Analytical Method Validation-need of Analytical Method Validation and the parameters involved in validation of method are discussed. Method validation is very essential in pharmaceutical companies. Students are trained in Polarography and angremontry titrations with reference to the instrumental methods and various technique of food preservation, food processing is explained in detail. Study, analysis of food products and detection of adulterants is carried out with special reference to milk, honey, tea, office. Basic and valuable knowledge about concepts of chromatographic separation techniques is learnt by the students followed by detailed information of operation and application of Ganks in Kernome garvinetric analysis, Differential thermal analysis & Thermo-metric titration is karnt by the students.

	USACDD	Drugs & Dyes	> Idea of Drug Metabolism, Drug Discovery, Design and Development. Study of Chemotherapeutic agents such as Antibiotics, Antivirals, Antimalarials, Antihelminthics, Antifungal agents along with synthesis of one drug of each category.
6th	601	(Applied Component)	> Study of Chemotherapeutic agents such as Antiamoebic, Antitubercular, Antileprote, Anti-mooplastic drugs along with synthesis of one drug of each category. Brief idea of Anti-HIV drugs along with synthesis of some drug intermediates and important uses of Nanoparticles in medicinal chemistry & impact of pharmacological industries on environment. > Detailed classification of dyes based on chemical constitution & synthesis of selected dyes. Environmental & health
			hazards of synthetic dyes and its corresponding remediation.
			Details of Non-textile uses of dyes, idea of pigments along with differences between dyes & pigments. Growth, development, challenges and opportunities with respect to dyestuff industries in India.
	US3BCH501 Bio		The students are taught the chemical structures of amino acids and proteins. The different tests for the same are discussed r ine cauciaus stuay of enzymes win reference to their kinetics and mode of action are discussed in details along with a section of chemical structure of nucleic acids along with its biological article.
5th		Biochemistry I	The biochemical aspects of carbohydrates with special reference to its structure and function is covered in details
			The concept of acid bases and ionic equilibria are discussed in detail
5th	US3BCH502	3BCH502 Biochemistry II	 This paper deals with the mechanisms related to carbohydrate and protein metabolism. The section on nutrition and biostatistics discusses the various applications and principles of biostatistics.
	035101302		Genetics and industrial biotechnology section talks about the recent advances in the respective fields
			Various biochemical aspects of structure and function along with detailed classification of lipids is covered.
6th	US3BCH601	Biochemistry I	Chromatography, a basic technique in biochemistry is studied in detail.
			The study of electrophoresis, Spectroscopy and centrifugation gives the learners an insight in to these basic techniques used in routine chemical study.
6th	US3BCH602	Biochemistry II	➤ This paper deals with the mechanisms related to lipid metabolism. ➤ The process of photosynthesis is discussed with special emphasis on the different biochemical pathways related to it. ➤ Endocrinology discusses the different structure function correlation of the hormonal system and its impact on the body.
			Recombinant DNA technologies and bioinformatics deal with the latest advances in the respective areas.

Program: B. Sc Specific Program: B.Sc. Computer Science

S-101 G S-102 H S-103 V S-104 I S-105 I	Course Title Computer Organization and Design Programming with Python - Web Technologies - 1 Database Systems Discrete Mathematics	Course Outcome (in bullets) Course Outcome (in bullets) To learn about how convert and underlying principles To understand the basics of digital electronics needed for computers To understand the basics of structure and operation To understand the basics of processor structure and operation To understand how data is transferred between the processor and I/O devices To understand how data is transferred between the processor and I/O devices To understand how data is transferred between the processor and I/O devices To transduct increase applications. Students should be made familiar about the concepts of programming before actually starting to write programs. Students should be made familiar about the basic constructs of programming such as data, operations, conflictens, loops, functions etc. Students should be andle to apply the problem-solving skills using syntactically simple language i.e., Pytho (version: 3.X or higher) To learn HTML and CSS Students should be able to evalue basics information problem and find the requirements of a problem terms of data. Students should be able to evaluate business information problem and find the requirements of a problem terms of data. Students should be able to evaluate business information problem and find the requirements of a problem terms of data. Students should be able to evaluate business information problem and find the requirements of a problem terms of data. Students should be able to reate, manipulate, query and back up the databases. Students should be able to reate, manipulate, query and back up the databases. To provide overview of theory of discrete objects, starting with relations and partially ordered sets. Study about recurrence relations, generating functions and operations on them. Give a understanding of graphs and trees, which are videly used in software.
S-101 I S-102 I S-103 V S-104 I S-105 I	Programming with Python - Web Technologies - I Database Systems	2. To understant the basics of digital electronics needed for computers 3. To understant the basics of processor structure and operation 4. To understant the basics of processor structure and operation 5. To understant the basics of processor structure and operation 5. To understant the basics of processor structure and operation 5. To learn about microcontrollers and its applications. 5. To learn about microcontrollers and its applications. 5. Students should be able to understant the basic constructs of programming such as data, operations, conditions, loops, functions etc. 4. Students should be to apply the problem-solving skills using syntactically simple language i.e., Pytho (version 3.X or higher) 1. To learn the different aspects of Website designing 2. To learn HTML and CSS 3. Students should be able to apply the problem-solving skills using syntactically simple language i.e., Pytho (version 3.X or higher) 1. To learn the different aspects of Gytess 3. To learn HTML and CSS 3. To learn HTML and CSS 3. Students should be able to evaluate business information problem and find the requirements of a problem terms of data. 3. Students should be able to reate, manipulate, query and back up the databases. 3. To learn should be able to create, manipulate, query and back up the databases. 3. To provide overview of theory of discrete objects, starting with relations and partially ordered sets. 3. Students should be able to create, manipulate, query and back up the databases. 3. Students should be able to relations applicate objects 3. Students should be able to relations and opjects 3. Students should be able to relations and opjects 3. Students should be able to create, manipulate, query and back up the databases. 3. Students should be able to relations generating function and operations on them.
S-102 I S-103 V S-104 I S-105 I	Web Technologies - I Database Systems	programs. 2. Students should be able to develop logic for Problem Solving. 3. Students should be made familiar about the basic constructs of programming such as data, operations, conditions, loops, functions etc. 4. Students should be able to apply the problem-solving skills using syntactically simple language i.e., Pytho (version: 3.X or higher) 1. To locarn HTML and CSS 3. To learn HTML and CSS 3. To learn HTML and CSS 4. Students should be able to evaluate business information problem and find the requirements of a problem terms of data. 2. Students should be able to evaluate business information problem and find the requirements of a problem terms of data. 3. Students should be able to create, manipulate, query and back up the databases. 4. To provide overview of theory of discrete objects, starting with relations and partially ordered sets. 5. Students should be able to reate, manipulate, query and back up the databases.
S-104 I S-105 I	Database Systems	1. To learn the different aspects of Website designing 2. To learn HTML and CSS 3. To learn HTML and CSS 3. To learn JavaScript functions and objects 4. Students should be able to evaluate business information problem and find the requirements of a problem terms of data. 2. Students should be able to design the database schema with the use of appropriate data types for storage data in database. 3. Students should be able to create, manipulate, query and back up the databases. 4. To provide overview of theory of discrete objects, starting with relations and partially ordered sets. 2. Study about recurrence relations, generating function and operations on them.
S-105 I		terms of data. 2. Students should be able to design the database schema with the use of appropriate data types for storage data in database. 3. Students should be able to create, manipulate, query and back up the databases. 1. To provide overview of theory of discrete objects, starting with relations and partially ordered sets. 2. Study about recurrence relations, generating function and operations on them.
	Discrete Mathematics	 To provide overview of theory of discrete objects, starting with relations and partially ordered sets. Study about recurrence relations, generating function and operations on them.
S-106 S		4. Provide basic knowledge about models of automata theory and the corresponding formal languages.
-	Statistics and R - I	 Enable learners to know descriptive statistical concepts Enable study of probability concept required for Computer learners
	Soft Skills Development & Digital Marketing	In the second sequence of the second sequence of the second
S-201 I	Data Structures using C	 Students should be able to write, compile and debug programs in C language. Students should be able to use different data types in a computer program. Students should be able to design programs involving decision structures, loops and functions. Students should be able to explain the difference between call by value and call by reference Students should be able to understand the dynamics of memory by the use of pointers. Students should be able to use different data structures and create/update basic data files. To understand stacks and queues in data structures To be mink list. sortine and searchine
	Programming with Python - I	Students should be able to understand how to read/write to files using python. Students should be able to catch their own errors that happen during execution of programs. Students should be able to catch their own errors that happen during execution of programs. Students should be made familiar with the concept of full controls and designing GUI applications. Students should be to connect to the database to move the data to from the application. Students should know how to connect to the database to move the data to from the application. Students should know how to connect to computers, read from URL and send email. To read and write exp files
S-203	Web Technologies - II	 Learn to plan site ravigation, publish and maintain website Learn HTML 5, CSS, JavaScript
		 To learn the functionality of PLSQL procedural language such as decision making, iteration, etc. Learn to use a single command in PL/SQL to execute a number of queries. Learn to reuse PL/SQL units such as functions, triggers, procedures, etc that are stored in the database aft the creation.
S-205 0	Calculus	Inderstanding of Mathematical concepts like limit, continuity, derivative, integration of functions. Ability to appreciate real world applications which uses these concepts. Skill to formulate a problem through Mathematical modelling and simulation.
S-206 S	Statistics and R - II	 Enable learners to know descriptive statistical concepts Enable study of probability concept required for Computer learners
		Entered and you be postminutry of the additional production of the source compared number of the source of th
	S-202 1 S-203 1 S-204 1 S-205 0 S-206 5 S-206 5 S-207 0	S-202 II S-203 Web Technologies - II S-204 Database Management using PLSQL S-205 Calculus S-206 Statistics and R - II

ш	USCS301	Theory of Computation	Learn about Automata theory and its application in Language Design Learn about Turing Machines and Pushdown Automata 4. Understand Linear Bound Automata and its applications
ш	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.
ш	USCS303	Operating System	Knowledge and implementation of AWT package To provide an understanding of operating system, its structures and functioning
III	USCS304	Database Management Systems	 Develop and master understanding of algorithms used by operating systems for various purposes. Master concepts of stored procedure and triggers and its use. Learn about using PL/SQL for data management 3. Understand concepts and implementations of transaction
ш	USCS305	Combinatorics and Graph Theory	management and crash recovery 1. Appreciate beauty of combinatorics and how combinatorial problems naturally arise in many settings. 2. Understand the combinatorial features in real world situations and Computer Science applications. 3. Apply combinatorial and graph theoretical concepts to understand Computer Science concepts and apply them to solve a transmission of the setting of the set
ш	USCS306	Physical Computing and IoT Programming	problems 1. Enable learners to understand System on Chip Architectures. 2. Introduction and preparing Raspberry Pi with hardware and installation. 3. Learn physical interfaces and electronics of Raspberry Pi and program them using practical's 4. Learn how to make consumer grande lor S and and secure with proper use of protocols.
ш	USCS307	Web Programming	To design valid, well-formed, scalable, and meaningful pages using emerging technologies. Understand the various platforms, devices, display resolutions, viewports, and browsers that render websites S. To develop and implement client-side and server-side scripting language programs. 4. To develop and implement Database Driven Websites. 5. Design and apply XML to create a markup language for data and document certric applications.
IV	USCS401	Fundamentals of Algorithms	Understand the concepts of algorithms for designing good program Jimore algorithms using Python
IV	USCS402	Advanced Java	1. Understand the concepts related to Java Technology
IV	USCS403	Computer Networks	 Explore and understand use of Java Server Programming Learner will be able to understand the concepts of networking, which are important for them to be known as a "networking professionals."
			Useful to proceed with industrial requirements and International vendor certifications I. To Learn system analysis and modelling
IV	USCS404	Software Engineering	 To learn software project management To learn software quality assurance and testing
IV	USCS405	Linear Algebra using Python	Appreciate the relevance of linear algebra in the field of computer science. Understand the concepts through program implementation A. Install a computational thinking while learning linear algebra.
IV	USCS406	.Net Technologies	Understand the .NET framework Develop a proficiency in the C# programming language Proficiently develop ASP.NET web applications using C# 4. Use ADO.NET for data persistence in a web application
IV	USCS407	Android Developer Fundamentals	1 Understand the requirements of Mobile programming environment. 2 Learn about basic methods, tools and techniques for developing Apps 3 Explore and practice App development on Android Platform 4 Develop working prototypes of working systems for various uses in daily lives.
v	USCS501	Artificial Intelligence	 The 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.
v	USCS502	Linux Server Administration	Learner will be able to develop Linux based systems and maintain. Learner will be able to install appropriate service on Linux server as per requirement. Learner will have proficency in Linux server administration.
v	USCS503	Software Testing and Quality Assurance	2. Leafter with more producers in Lance server automission of the server automission of the server automission of the server automatic server and the server automatic server and the server automatic server server automatic server server automatic server s
v	USCS504	Information and Network Security	 Understand the principles and practices of cryptographic techniques. Understand a variety of generic security threats and vulnerabilities, and identify & analyse particular security problems for a given application. Understand various protocols for network security to protect against the threats in a network
V	USCS505	Architecting of IoT	 Learners are able to design & develop IoT Devices.
v	USCS506	Web Services	They should also be aware of the evolving world of M2M Communications and IoT analytics. 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
v	USCS507	Game Programming	1. Learner should study Graphics and gamming concepts with present working style of developers where
	USCS601	Wireless Sensor Networks	everything remains on internet and they need to review it, understand it, be a part of community and learn. 1. Learner should be able to list various applications of wireless sensor networks, describe the concepts,
VI	0303001	and Mobile Communication	protocols, design, implementation and use of wireless sensor networks. 2. Also implement and evaluate new ideas for solving wireless sensor network design issues.
VI	USCS602	Cloud Computing	 Learner should be able to articulate the main concepts, key technologies, strengths, and limitations of cloud computing and the possible applications for state-of-the-art cloud computing using open-source technology. Learner should be able to identify the architecture and infrastructure of cloud computing, including SaaS, PaaS, IaaS, public cloud, private cloud, hybrid cloud, etc. They should explain the core issues of cloud computing such as security, privacy, and interoperability.
VI	USCS603	Cyber Forensics	 Learners should be able to plan and prepare for all stages of an investigation - detection, initial response and management interaction, investigate various media to collect evidence, report them in a way that would be acceptable in the court of law.
VI	USCS604	Information Retrieval	 Learner should get an understanding of the field of information retrieval and its relationship to search engines. It will give the learner an understanding to apply information retrieval models.
VI	USCS605	Digital Image Processing	 It will give the learner an uncerstainting to apply mormation renreval models. Learner should review the fundamental concepts of a digital image processing system. Analyze the images in the frequency domain using various transforms. Evaluate the techniques for image enhancement and image segmentation. Apply various compression techniques. They will be familiar with basic image processing techniques for solving real problems.
VI	USCS606	Data Science	 The students should be able to understand & comprehend the problem; and should be able to define suitable statistical method to be adopted
VI	USCS607	Ethical Hacking	 Learner will know to identify security vulnerabilities and weaknesses in the target applications. They will also know to test and exploit systems using various tools and understand the impact of hacking in
L		1	real time machines.

BSc Economics

1. Develops an understanding of the core micro and macroeconomic principles and models and how they apply to a wide range of real-world issues.

2. Enhances the ability to critique and create economic research by mastering the theoretical and applied tools.

3. Familiarise with the salient developments in the Indian and world economy, in both present-day and historical contexts.

4. Develops research and advocacy skills through critical pedagogies in the classroom and through individual and group applied projects.

5. Identify compile, interpret, and analyze quantitative economic data by expressing relationships between concepts through graphs, statistical or econometric analysis.

6. Develop requisite skills in areas which have direct bearing on future employment prospects and meet the requirements of business, corporate sector, public services and other professional jobs.

CO Economics			
Semester	Course-Code	Course Title	Course Outcome (in bullets)
I	US-FEC-101	Introductory Microeconomics	 Understand, summarize, analyse and apply the basic microeconomic principles of economics in their daily lives. Understand the concepts of demand, supply and elasticity.

1	1		3. Critically differentiate between various approaches of consumer behaviour.
I	US-FEC-102	Introductory Macroeconomics	Understand, summarize, analyse and apply the concepts of Macro Economics in their daily lives. Utentify and understand the different components of National Income Accounting Comprehend the different theories of demand for and supply of money, role of central bank, commercial banks and the process of credit creation in the economy.
п	US-FEC-201	Intermediate Microeconomics	Get a nuanced understanding of producer behaviour. Confiderentiate between the various cost concepts and interrelationship between revenue concepts under different market conditions. Understand the various objectives of a firm and their pricing methods. Identify different market structures around them based on their characteristics and understand their behaviour.
п	US-FEC-202	Intermediate Macroeconomics	 Appreciate macroeconomic issues like inflation, Balance of payment, Exchange rate policy etc. Understand the mechanism of IS-LM model and apply it to interpret the fiscal and monetary policy interactions in the economy.
ш	US-SEC-301	Advanced Microeconomics	 Understand the concepts of oligopoly, game theory of microeconomics. Interpret the principles of General Equilibrium and Welfare Economics Understand the mechanism of factor market
ш	US-SEC-302	Economics of Development	 Knowledge of the basic concepts of growth and development along with human and sustainable development. Understand various models and theories of development discussed by economists. Understand y was use proteints of prevery anopamy and massive to tracket uses economise. Understand the important role of infrastructure and technology for economic development.
ш	US-SEC-303	Financial Economics	 Enables a deep theoretical understanding of the economics of finance. Imparts knowledge about the basic models of investment and portfolio analysis including CAPM Develops an understanding of valuation of assets, derivatives and options and patterns of corporate financing.
IV	US-SEC-401	Advanced Macroeconomics	 Understand the Goods Market (IS) equilibrium in close and open economy. Familiarity with financial market equilibrium in close and open economy. Understand policy mix of Fiscal and Monetary Policy for equilibrium of economy through Mundell-Fleming Model. Understand the various exchange rate regimes with pros & cons. Trace the International Monetary History since 1900
IV	US-SEC-402	International Economics	 Awareness about the importance of international economics and the difference between domestic and foreign trade. Understand the theories of international trade. Familiarity with the recent trends in international economic relations. Knowledge about the instruments of trade policy, controversies in trade and the growing importance or regional trade agreements.
IV	US-SEC-403	Indian Financial System	 Familiarity with various components of the Indian financial system Develops an understanding of the working and trends that have taken place over the years especially since financial sector reforms. Acquainting students with the mechanism of the various financial markets.

Course Outcome (COs):

Semester	Course-Code	Course Title	Course Outcome (in bullets)
			 Introduction to Environment and Pollution-Components of Environment, Types of pollution Green Chemistry and Sustainability: The Twelve Principles of Green Chemistry, Sustainable Development-Principles and sustainable development indicators, Areas highlighted by Agenda, Transition from Industrial economy to Green economy. Alternate Energy Resources-The alternative energy resources and hence follow the 4 R's (Reduce, Reuse, Recycle & Reinvent), Learner may discover and design products, operations or processes, which conserve the energy resources.
5 th	USACEVS501	Applied Environmental Sciences	 Applications of Analytical methods-Skills in instrumentation used for the study and analysis of various substances related to the environment Green/Environmental Audri – To develop conceptual clarity on pollution control and green environmental audriting, besides gaining knowledge about these programmes in the Indian scenario. Industrial Consultancy – Knowledge of various areas and facets of industrial consultancy, and also develop competency and confidence to explorit it, also able to grasp the importance of various norms
			where the indicative state is a state of the state of
6 th	USACEVS601	Environnental Management	 Business Analytics of Environment Testing - Knowledge about environmental testing and monitoring laboratories, air, water quality and noise exposure standards and methods of physico-themical and bacteriological Restoration - To study and comprehend the treatment practices applied for domestic wastes water and industrial effluences Inspact Assessment through Ecological modelling - To develop an understanding on the concept, application and limitation of modelling as a tool for summarising or applying the research and survey findings, also to develop skills on the application of neural networking and statistical modelling Franzec - To understand variatios concepts of cosingle, look keeping and final accounts Brounet Vonservation and Ecotourism - 10 understand units in the importance or conserving the existing biodiversity. It oexploy repossibilities within learners to be nature embiasists, passionate muturalists, adventurists and eco-friendly tourists. Also, to tap the cotourism avenues within and outside develops and the existing a Gifferst, Greenhouse substance: Sources & effects, Geospatial technology. Remote Sensing & Giff, Role of IPCC in climate change monitoring: Kyoto Protocol, Montreal Protocol, Earth Summit & UN Convention on Climate Change Environmental Education on Legislation-Gosto, Societivos & Briterijes of environmental education, Environmental Education programmes in India, Environmental organizations & agencies- CITES, EPA, LICN & MAB, Environmental Investin AG 2002 Open Unit-Open unit is one of the Principal. Biological Diversity Act, 2002 Open Unit-Open unit is one of the Principal.

Program : BSc.

1. Information Technology graduates will apply their knowledge and skills to succeed in their career/ professional development and/or postgraduate education to pursue flexible career paths amidst future technological changes.

 Our graduates will apply basic principles and practices of computing grounded in mathematics and science to successfully complete hardware and/or software related projects to meet customer business objectives and/or productively engage in research.

3. Conceptualize domain specific problems, analyse and develop efficient algorithms and provide solutions with help of modern tools and techniques.

4. The degree in IT is awarded for completing a programme of study in the field of Software Development, Software Testing, Software Engineering, Web Design, Embedded System, Internet of Things, Digital Electronics, Databases, Programming, Computer Networking, Artificial Intelligence, Machine Learning, Data Warehousing, Business Intelligence, Geographic Information System, Graphics and Animations etc.

5. Apply standard / best industry practices and techniques in developing software systems.

6. The syllabus also covers subjects to develop soft skills of students which enables them to prepare better resume, interviews, leadership skills, and the ability to function effectively in multidisciplinary teams.

7. The students are able to work as part of a team with constant collaboration and communication in order to build projects.

8. This enables the student to get absorbed in the campus placement and to prepare for certification courses.

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Semester	Course-Code	Course Title	Course Outcome (in bullets)
	UG-FIT-101	Object Oriented Programming with C++	Understand the difference between procedure oriented and object- oriented approach. Understand the difference between the top-down and bottom-up approach. Describe the object-oriented programming approach in comection with C++. Apply the concepts of object-oriented programming namely, Polymorphisms, Encapsulation, Data Abstraction, Inheritance, and Data Binding. Illustrate the process of exception handling, file operations, operator and function overloading using C++. Implement various types of constructors, inheritance, templates. Apply virtual and pure virtual function and implement the concept of late and early binding.
	UG-FIT-102	Digital Electronics	 Introduction to Binary, Hexadecimal and Octali number system. Arithmetic operations using the same. Devices working on binary number system like transistor, diode as switch. Types of Gates designed using the same, their types, working, and applications. Describe Combinational logic Circuits like adders, subtractors, multipliers, dividers, encoders, decoders, multiplexers, demultiplexers, code converters. Describe Sequential Logics like flip-flops, counters, shift registers etc. Describe Sequential Logics like flip-flops, counters, shift registers etc. Describe square converters- Analog to Digital to Analog, Memory- RAM, ROM, EPROM, Dynamic RAM etc.
I	UG-FIT-103	Operating System	Describe the general architecture of computers and important computer system resources also the role of operating system in their management policies and algorithms. Understand the process management policies and scheduling of processes by CPU and describe, contrast and compare differing structures for operating systems. Evaluate the requirement for process synchronization and coordination handled by operating system Describe and analyse the memory management and its allocation policies. Identify use and evaluate the storage management policies with respect to different storage management technologies.
	UG-FIT-104	Mathematics I	Apply the Set theory and Relation concepts. Apply the Functions and define the recursive functions. Apply Elementary number theory and methods of proof to different applications. Apply Matrices, sequences, Mathematical Induction and Recursion to different applications. Identify the permutations and combanisons using ocurring and probability.
	UG-FIT-105	Professional Communication Skills	Understand the role of communication skills in personal & professional success. Students will develop knowledge, skills, and judgment around human communication that facilitate their ability to work collaboratively with others and develop awareness of appropriate communication strategies. Prepare and present presentations with a specific intent. Analyze a variety of communication acts including communication competencies such as managing conflict, understanding small group processes, active listening, and appropriate self-disclosure. Understand how preconceptions and limited perceptions interfere with communication. Ethically use, document and integrate sources.
п	UG-FIT-201	Python Programming	 To learn how to use lists, uples, and dictionaries in Python programs. To learn how to use lists, uples, and dictionaries in Python programs. To identify various Python object and their types. To define the structure and components of a Python program. To design object oriented programs with Python classes. To use class inheritance in Python. To learn how to write loops and decision statements in Python. To learn how to use viset indefined packages and to create user defined Python modules. To learn how to read and write files in Python.
Ш	UG-FIT-202	Microprocessor Architecture and Interfacing	To learn how to use exception handling in Python applications for error handling. Introduction to Microprocessor, Process of Evuluation of Computers, Types of Computers. Describe 8085 Microprocessor in terms of Pin Diagram of IC 8085, Iternal Block Diagram, and Working of the same. Introduction to Assembly Language Programming, Instructions et for IC 8085. Programming model of 8085, Assembly Language Programs for various operations like Addition, Subtraction, Multiplication, Division, Data Transfer, Calculation of square and square root, generation of series and many more. Describe the interfacing of Menorises RAM, RAM CoM to microprocessor, Input Oluput Devices. Describe the programmable peripheral interfaces like IC 8255, IC 8155. Their use and various devices that can be interfacion dis 255 and 8155.
	UG-FIT-203	Introduction to Unity and Graphics	 To learn how to develop video games using the C# programming language and the Unity game engine on Windows or Mac. Able to use tool sets of Photoshop, Image editing and enhancement, use of Filters, Advanced Filters. Apply Concepts of rigging and animation. Creating Assembly for Games, Virtual reality, augmented reality with ARCore.
	UG-FIT-204	Mathematics-II	Installation of Google SketchUp. To find the solution of linear and nonlinear equations, and the solution of differential equations. To understand the origin of approximation theory and basic types of problems caused by it. Calculate and interpret the correlation between two variables. Determine whether the correlation is significant. Calculate the simple linear regression equation for a set of data.
	UG-FIT-205	Green Computing	 Determine whether a regression model is significant. Understand Naha Green Ti a sain how we can meet standards set for Green Computing. Comprehend Green TI from the perspective of hardware, software, storage, and networking at the enterprise level and innovate with cost friendly efforts. Create avareness among stakeholders and promote green initiatives in their environments leading to a green movement. Adopt special skills such as knowledge about energy efficiency, ethical IT assets disposal, carbon footprint estimation. Strategize Green Initiatives, create eco-friendly environment and look at the future of Green IT.

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	USIT301	Python Programming	 To learn and understand Python programming basics and paradigm. To learn and understand python looping, control statements and string manipulations.
			Design and implement GUI applications. To learn and know the concepts of file handling, exception handling and database connectivity.
			 Choose appropriate data structures to represent data items in real world problems. Analyse the time and space complexities of algorithms
			 Understand the intricacies of various structures arrays, stacks, queues, binary trees, and search trees, heaps, graphs, and B-trees.
	USIT302	Data Structures	Understand algorithm on operations on Traversals, Insertion, Deletion, Search, and Sort on these data structures.
			 Design programs using a variety of data structures Analyse and implement various kinds of searching and sorting techniques Binary Search, Linear Search, MergeSort,
			Heapsort, Quick Sort and the likes.
			 Understand and describe the layered protocol model. Describe, analyse and evaluate a number of datalink, network, and transport layer protocols.
	USIT303	Computer Networks	 Program network communication services for client/server and other application layouts. Design, analyse, and evaluate networks and services for homes, data centres, IoT/IOE, LANs and WANs.
			 Implement a simple LAN with hubs, bridges and switches. Describe how packets in the Internet are delivered.
Ш			Describe how routing protocols work Identify the basic concepts and various data model used in database design ER modelling concepts and architecture
			use and design queries using SQL.
			 Apply relational database theory and be able to describe relational algebra expression, tuple and domain relation expression from queries.
	USIT304	Database Management Systems	 Recognize and identify the use of normalization and functional dependency, indexing and hashing technique used in database design.
		-,	Recognize the purpose of query processing and optimization and also demonstrate the basic of query evaluation.
			 Apply and relate the concept of transaction, concurrency control and recovery in database. Discuss recovery system and be familiar with introduction to web database, distribute databases, data warehousing
			and mining. Study complex numbers and its arithmetic as application to scientific calculations.
			 Describe Matrix Algebra and Introduction to Matrix Calculus used to solve multiple linear equations and equations of
			 higher order. Study Differential Equations in terms of order of equations, Degree of Equations, Simultaneous Equations, various
	USIT305	Applied Mathematics	 methods to solve them. Describe use of Laplace Transform to Solve problem by performing the arithmetic in 'S' Plane as compared to
			regular 't' plane. Hence finding the usefulness of Laplace Transform to solve complicated equations.
			 Describe second order and third order integration useful to study two dimensional and three dimensional surfaces and volumes. Application of the same to analyse surface and volumetric contents of electricity in terms of charge stored.
		1	 Analyse and explain the behaviour of simple programs involving the following fundamental programming constructs: assignment, I/O (including file I/O), selection, loops, function
			· Write a program that uses each of the following fundamental programming constructs: assignment, I/O (including file
			 I/O), selection, iteration, methods Break a problem into logical pieces that can be solved (programmed) independently
	USIT401	Core Java	 Develop, and analyse, algorithms for solving simple problems Use a suitable programming language, and development environment, to implement, test, and debug algorithms for
	0311401	Core sava	 solving simple problems. Write programs that use each of the following data structures (and describe how they are represented in memory):
			 strings, arrays. Understand the basics of the concept of recursion
			· Understand and apply object-oriented design and testing involving the following concepts: data abstraction,
			encapsulation, information hiding, inheritance, and polymorphism.
	USIT402 Introduction to Systems		 Understanding of internal structure of embedded devices. Knowledge of possible options to choose for designing own Embedded Systems.
		Introduction to Embedded	 Understand what are sensors and actuators, communication interfaces. How to use embedded C for programming 8051 microcontroller.
		Systems	 Idea of different trends in the embedded industry. Learning the Embedded Development Life Cycle.
IV			Choosing proper data types, particular port pins of microcontroller and debugging options. To learn techniques to calculate the measures of central tendency and different measures of
		Computer Oriented Statistical Techniques	dispersion.
	USIT403		 To gain insight into consequences of plan by probability techniques and processing samples using sampling techniques.
			 Drawing valid conclusion using estimation theory and proper decision using decision theory. To measure experimental result based on hypothesis using chi square techniques.
			 To learn techniques to correlate the relationship between various variables. Understand how to apply the software engineering lifecycle by demonstrating competence in communication,
			 planning, analysis, design, construction, and deployment. Develop an ability to work in one or more significant application domains.
	USIT404	Software Engineering	 Develop an ability to identify, formulate, and solve complex engineering problems by applying principles and techniques of software engineering, science, and mathematics.
	CONTINU		· Work as an individual and as part of a multidisciplinary team to develop and deliver quality software and create a
			 collaborative and inclusive environment, establish goals, plan tasks, and meet objectives. Demonstrate an understanding of and apply current theories, models, tools and techniques that provide a basis for the
		Computer Graphics and Animation	software lifecycle. To list the basic concepts used in computer graphics.
	USIT405		 To implement various algorithms to scan, convert the basic geometrical primitives, transformations, Area filling, clipping
	US11405		 To describe the importance of viewing and projections To define the fundamentals of animation, virtual reality and its related technologies.
			To understand a typical graphics pipeline.
			Define various software application domains and remember different process model used in software development.
		Software Project	 Explain needs for software specifications also they can classify different types of software requirements and their gathering techniques.
	USIT501	Management	 Convert the requirements model into the design model and demonstrate use of software and user interface design principles.
			Generate project schedule and can construct, design and develop network diagram for different type of Projects.
			Also organize different activities of project as per Risk impact factor. Knowledge of existing IOT devices.
			 Understand concept of Internet communication.
			 When to choose open source or closed source options.
	LIGITICO		 How to choose proper platform for prototyping.
	USIT502	Internet of Things	 Knowledge of various tools available for making physical design of system. Understanding of API concepts.
	USIT502	Internet of Things	 Knowledge of various tools available for making physical design of system.
	USIT502	Internet of Things	Knowledge of various tools available for making physical design of system. Understanding of API concepts. How to make efficient use of available memory. Knowledge of various Business Models. How to design PCBs.
	USIT502	Internet of Things	Knowledge of various tools available for making physical design of system. Understanding of API concepts. How to make efficient use of available memory. Knowledge of various Business Models. How to design PCBs. The basics of the asp.net programming with the introduction of .NET framework and .NET class framework with some programming variables, data types, object-oriented terminology, creating objects and classes, overloading methods,
V		Internet of Things	Knowledge of various tools available for making physical design of system. Understanding of API concepts. How to make efficient use of available memory. Knowledge of various Business Models. How to design PCBs. The basics of the asp.net programming with the introduction of .NET framework and .NET class framework with some programming variables, data types, object-oriented terminology, creating objects and classes, overloading methods, Inheritarce and interface implement the inheritance i.e. creating base class, properties subclass and by using 'inherit'
v	USIT502 USIT503		Knowledge of various tools available for making physical design of system. Understanding of API concepts. How to make efficient use of available memory. Knowledge of various Business Models. How to design PCBs. How to design PCBs. The basiss of the asp-net programming with the introduction of .NET framework and .NET class framework with some programming variables, data types, object-oriented terminology, creating objects and classes, overloading methods, Inheritance and interface implement the inheritance i.e. creating base class, properties subclass and by using 'inherit' the keyword; overloading and overriding methods, shadowing, and object interface in detail. There are few applications viz; controlling web applications.
v		Advanced Web	Knowledge of various tools available for making physical design of system. Understanding of API concepts. How to make efficient use of available memory. Knowledge of various Business Models. How to design PCBs. The basics of the asp.net programming with the introduction of .NET framework and .NET class framework with some programming variables, data types, object-oriented terminology, creating objects and classes, overloading methods, constructors, shared methods. Interitance and interface implement the inheritance i.e. creating base class, properties subclass and by using 'inherit' the keyword; overloading methods, shadowing, and object interface indetail.
v		Advanced Web	Knowledge of various tools available for making physical design of system. Understanding of API concepts. How to make efficient use of available memory. Knowledge of various Business Models. How to design PCBs. The basics of the asp.net programming with the introduction of .NET framework and .NET class framework with some programming variables, data types, object-oriented terminology, creating objects and classes, overloading methods, constructors, shared methods. Indivite design and interface implement the inheritance i.e. creating base class, properties subclass and by using "inherit" the keyword; overloading and overriding methods, shadowing, and object interface in detail. There are few applications viz; controlling web applications, creating and deploying web applications. Custom controls include the input validation controls, list bound controls, rich controls and user controls. XML serialization and XML stream-style parsers.
v		Advanced Web	Knowledge of various tools available for making physical design of system. Understanding of API concepts. How to make efficient use of available memory. Knowledge of various Business Models. How to design PCBs. The basics of the asp.net programming with the introduction of .NET framework and .NET class framework with some programming variables, data types, object-oriented terminology, creating objects and classes, overloading methods, constructors, shared methods. Instrintace and interface implement the inheritance i.e. creating base class, properties subclass and by using 'inherit' the keyword, overloading and overriding methods, shadowing, and object interface in detail. There are few applications, virce, controlling web applications, recuting and deploying web applications. Custom controls include the input validation controls, intrinsic controls, list bound controls, rich controls and user controls. XML serialization and XML stream-style parsers. XML serialization and XML stream-style parsers. Knowledge of basic commands in Linxx for file handling and process management. How to install and use various software packages.
v		Advanced Web Programming	Knowledge of various tools available for making physical design of system. Understanding of API concepts. How to make efficient use of available memory. Knowledge of various Business Models. How to design PCBs. How to design PCBs. Interface of the system of the system. Knowledge of basic commands in Linux for file handling and process management. How to acommands of Tile System. How to acomment two endown asystems using networking endowns.
v		Advanced Web	Knowledge of various tools available for making physical design of system. Understanding of API concepts. How to make efficient use of available memory. Knowledge of various Business Models. How to design PCBs. The basics of the asp-net programming with the introduction of .NET framework and .NET class framework with some programming variables, data types, object-oriented terminology, creating objects and classes, overloading methods, Inderitate and interface implement the inheritance i.e. creating base class, properties subclass and by using 'inherit' the keyword, overloading and overriding methods, shadoving, and object interface in detail. There are few applications vice; controlling web applications, recating and deploying web applications. Custom controls include the input validation controls, intrinsic controls, list bound controls, rich controls and user ontrols. XNuvelege of basic commands for File System. How to neard two commands for File System. How to neardor two and mers systems using networking envelows. How to neardor two and mers systems using networking commands. How to neardor the sharing between different systems.
v	USIT503	Advanced Web Programming Linux System	Knowledge of various tools available for making physical design of system. Understanding of API concepts. How to make efficient use of available memory. Knowledge of various Business Models. How to design PCBs. The basics of the asp.net programming with the introduction of .NET framework and .NET class framework with some programming variables, data types, object-oriented terminology, creating objects and classes, overloading methods, constructors, shared methods. Inheritance and interface implement the inheritance i.e. creating base class, properties subclass and by using 'inherit' the keyword, overloading methods, shadowing, and object interface in detail. There are few applications viz, controling web applications, creating and deploying web applications. Custom controls include the input validation cortrols, intrinsic controls, list bound controls, rich controls and user controls. XML serialization and XML stream-style parsers. Kowledge of basic commands in Linxu for file handling and process management. How to install and use various software packages. Use of configuration cort more systems using networking commands. How to corteof find for the byteven different systems.
v	USIT503	Advanced Web Programming Linux System	Knowledge of various tools available for making physical design of system. Understanding of API concepts. How to make efficient use of available memory. Knowledge of various Business Models. How to design PCBs. The basics of the asp.net programming with the introduction of .NET framework and .NET class framework with some programming variables, data types, object-oriented terminology, creating objects and classes, overloading methods, constructors, shared methods. Inbrit nace and interface implement the inheritance i.e. creating base class, properties subclass and by using 'inherit' the keyword; overloading methods, shadowing, and object interface in detail. There are few applications viz, controlling web applications, creating and deploying web applications. Custom controls induct the input validation cortrols, infrinsic controls, list bound controls, rich controls and user controls. XML serialization and XML stream-style parsers. XML serialization commands in Linux for file handling and process management. How to install and use various offware packages. Use of configuration commands for File System. How to instem file between different systems. How to noteed system with the help of firewall and file permissions. How to noteed system with the help of firewall and file permissions. How to noteed system with the help of firewall and file permissions.

	USIT505	Enterprise Java	 Develop and test Java network, search engine, and web framework programs. Learn how to write, test, and debug advanced-level Object-Oriented programs using Java. Develop appropriate data model and database scheme. Create and test prototypes. Develop Structure. Identify major subsystems and interfaces. Validate design scheme and models.
VI	USIT601	Software Quality Assurance	 Describe Quality and Software Quality. Various factors and aspects of Software Quality to be analysed during the Software Development Process. Different models used for development as well as testing. Study different methodologies used for testing and identify the field of application of each. Describe different levels of Testing in the project, identify which method to use at each level. Study different types of special lesting required as perf the construction of the hardware and implementation of the software. Describe the process of verification and validation of software. Different levels at which the process is implemented. The review techniques used for the same.
	USIT602	Security in Computing	Identify some of the factors driving the need for security. Identify and classify particular examples of attacks. Define the terms wuherability, threat and attack. Identify physical points of vuherability in simple networks. Compare and contrast symmetric and asymmetric encryption systems and their vuherability to attack, and explain the characteristics of hybrid systems.
	USIT603	Business Intelligence	Describe the concepts and components of Business Intelligence (BI). Understand and use the technologies and tools that make up BI (e.g. Data warehousing, Data reporting and use of online analytical processing (OLAP)). Understand and design the technological architecture that underpins BI systems Implementation of a BI system.
	USIT604	Principles of Geographic Information Systems	Explain the principles of GIS as a combination of geospatial data input, processing, output and personnel subsystems; Explain the requirements for co-ordinate reference systems in GIS and apply them within a GIS; Describe and critically assess the use of vector and raster representations of real world objects and how to convert between them; Describe and critically assess the use of analytical tools within GIS including overlay, buffer, network, and terrain analysis and how they are applied in the ArcGIS (or equivalent) environment; Produce effective maps and reports based on output of GIS processes; apply acquired GIS skills to a range of applications.
	USIT605	IT Service Management	Describe the importance of IT enabled services and challenges. Identify strategic IT planning for software development Recognize enterprise IT architecture for Information technology. Use of Information Technology so as to enable them for job in sumise industries. Illustrate various IT webs varices for betterment of knowledge.

Program : BSc. PSO Department of Life Sciences

1. The program aims to develops a student centric learning pedagogical approach, which has been further aimed at being outcome-oriented and curiosity-driven.

2. The program develops an understanding towards the molecular logic of a living cell.

3. Introduces to the underlying biological mechanisms at organismic level.

4. Helps to understand the adaptability of the organisms to Environment they live in which reflects as transitions in body plans and biodiversity in animals and plants.

5. Develops an understanding about the adaptations of organisms which are often physiological and have a genetic basis.

6. Introduces a Comparative approach to Physiology.

- 7. Develops an understanding to Homeostasis which is due to stress and infections.
- 8. Introduction of various tools of Biostatistics that can be used to manage and analyse Biological data.
- 9. Introduction to Bioinformatics as a tool to manage Molecular data such as nucleotides and proteins and Comparative Genomics study to understand the phylogeny between taxa and species.

10. To give students understanding of basic principles and history of Genetic discoveries. Comparison of Genome Organization in Pro and Eukaryotes and the ways in which Gene expression is regulated. Includes tools to understand and manage Molecular Bio-techniques along with Gene Mapping in various organisms.

11. The course of Immunology is formulated to provide good knowledge of the immune system, its response and involvement in health and disease, deals with the section of immunology which encompases the aetiology of various diseases caused by disorders of the immune system either due to its failure (Immunodeficiency), aberrant action (Hypersensitivity, Autoimmunity), or malignant growth of cellular elements (Cancer) and clinical management (Vaccines).

12. Introduces to the students the basic concepts of Developmental Biology, which is the process by which animals and plants grow from a single original zygote, explains the molecular and cellular spects of and the important genes involved in early development. It also looks at the applications of Developmental Biology such as Regeneration, Ageing, Cancer and Assisted Human Reproduction/ART).

13. Describes the anatomical organization of the Nervous system and its early development. It also explains the cellular basis of nerve conduction within a neuron and transmission across syrapses including a description of the neurotransmitters, also describes the structural and functional features of the various Sensory and Motor systems. It elaborates on some behavioural aspects such as sleep and memory. Examples of diseases that arise due to malfunction of the nervous system are described.

Semester	Course-Code	Course Title	Course Outcome (in bullets)
lst	US-FLS-101	Life Sciences at the Molecular and Cellular Levels	 Moelcular basis of water and study of Biomolecules- Carbohydrates and Proteins. Concept of Prokaryotic and Eukaryotic cells – Microscopy and structure of Prokaryotic and Eukaryotic Cell. Cell Organelles I-Nucleus, Cytoskeletal elements, Structure of cell wall.
1 st	US-FLS-102	Life Sciences as System, Organism at Community Level	Multicellularity and specialized function – Classification of organisms, Cell to Organism Level of Organization to study the various Life Processes. Physiological System I – Transport of Nutrients and Circulation, Movement in Plants and Locomotion in Animals. 3. Physiological System II – Respiration, Excretion and Osmoregulation.
2 nd	USFLS201	Life Sciences at The Molecular and Cellular Levels	 Macromolecules-Lipids, Nucleic Acids and Separation techniques. Cell Organelles II – Cell Membrane, Endoplasmic Reticulum, Ribosomes, Golgi Apparatus and Lysosomes. Energy Metabolism and Cell Division Mitochondria, Plastids, Peroxisomes and Glyoxisomes, Mitosis and Meiosis & their significance.
2 nd	USFLS202	Life Sciences as System, Organism at Community Level	 Classical Genetics - Medician Inheritance, Chromosomal inheritance, Post Mendelian Genetics - Modification of Mendel's laws Mutations, Principles of Genetic Engineering and its applications. Ecology and Behavior - Principles of Ecology, Intraspecific Interactions, An overview of Ecological succession, Types of Ecosystems, Behavioral Ecology, Biostatistics.
			1.Homeostatic mechanisms and cellular communication, Neuroendocrine glands and their hormones, Structure an functions of Plant Growth Regulators

			 Control and Coordination in plants and animals: Human nervous system and behaviour and behavioural adaptations and plant movements. Developmental Biology: Reproduction and Development, Gametogenesis and early development.
3 rd	USLSC 301- Paper I	Comparative Physiology	
3 rd	USLSC302	Life processes at the tissue, organ and organism levels: A Biochemical Approach	1.Basic biochemical processes in cells and tissues and their regulation and integration are the central component of a normal functional cell. 2. Enzymes and their environment. 3.Metabolism of Carbohydrates and its Bioenergetics
5	Paper II	**	4. Catabolism of Lipids and Proteins
			1.Evolutionary concepts and Population studies. Quantification is an important aspect of modern biology. A clear understanding of how to handle measurements and biological variation in a variety of experimental setups is obligatory.
			 Includes fundamentals of Biostatistics and Bioinformatics. Elementary Bioinformatics has been added to introduce students to '<i>in silico</i>' laboratories available
		Population approach: population and communities as regulatory unit	
3 rd	USLSC 303- Paper III		
	USLSC 401-	Altered Homeostasis due to	1.Homeostasis to stress- Thermal physiology, Fuel Homeostasis during exercise and Stress
4 th	Paper I	stress and infections	2.Homeostasis during infections-Host-parasite relationship, Defence mechanism in plants, defence mechanism in animals
			 Infectious Diseases-Vector borne, Viral disease, Bacterial disease, Fungal disease Infection in plants
			 Metabolism – Carbohydrate anabolism, Lipid anabolism, Protein anabolism and Photosynthesis Chemistry of nucleic acids, Transcription and Reverse transcription
$4^{\rm th}$	USLSC 402- Paper II	Life processes at the tissue, organ and organism levels: A Biochemical Approach	 Regulation of gene expression and Integration of metabolism- Translation, regulation of gene expression and its significance.
			1.Evolution and its consequences-Origin of species, Human evolution and Evolution and Society
		Population approach: Population and communities as regulatory unit	2. Biostatistics- Hypothesis and its types, errors in testing and its types, level of significance
$4^{\rm th}$	USLSC 403- Paper III		3. Bioinformatics- DNA sequence Data analysis, Phylogenetic Analysis
S th	USLSC 501- Paper I	Genetics and Immunology	 The Genetic material- Discovery of the Genetic material, Organization of Eukaryotic and Prokaryotic Genome, Gene regulation in eukaryotes Mchanismo of Inheritance and Variation- Inheritance pattern of Genetic Disorders in Humans, Introduction to Genetic Recombination, Mutational Variation Overview and Cells and Organs of Immune System- Historical Perspective and overview of Immune System, Antigens and Antibodies and their Interactions Antigen recognition and Effector Mechanisms- Recognition of antigens, Major Histocompatibility Complex, Maturation and activation of Lymphoeytes, Immune Effector Mechanisms
S th	USLSC 501- Paper II	Developmental Biology and Neurobiology	 Developmental biology: Concepts, Model organisms and Techniques-History of Concepts in Development, Life Histories of Model Organisms in highlighting isome important concepts, Experimental approaches to studying development, Transgenic techniques and Gene silencing Animal and Plant Development and Differentiation in <i>Arabidopsis</i> thaliana General organization of Nervous System- Comparative overview of vertebrate and invertebrate nervous system. Development of henrovous system Cellular organization of the Nervous System-Typical nerve cell, Types of cells, Chemical Basis of Neural transmission, Action Potential & protential or Synaptic potential and synaptic integration, Synapse and synaptic transmission, Neurotransmitters
6 th	USLSC 601- Paper I	Genetics and Immunology-II	1.Organisms and techniques used in the understanding of Genetics - Genetic recombination and Gene mapping in Bacteria, Maize and Drossphila, Human Genetic Mapping and Human Genome Project. 2. Tools and Techniques in Molecular Genetics - Principle and Methodology of PAGE, RE, PCR, DNA Sequencing, FISH, Cloning of Insulin Gene 3.Hypersensitivity, Infectious diseases, Vaccines and Immunodeficiency- Hypersensitivity, Infectious Diseases and Vaccines, Passive and Active Immunization, Immuno deficiencies 4.Transplantation, Tumour Immunology, Tolerance and Autoimmunity- Types of Grafts, Tissue typing, Tumour specific and associated antigene, Establishment and maintenance of tolerance, Autoimmunity
6 th	USLSC 602- Paper II	Developmental Biology and Neurobiology-II	 Animal and Plant Development – Basic Cellular and Molecular aspects. Potency: Totipotency, Pluripotency Multipotency, Oligopotency, Differentiation, Molecular Basis of Development, Role of Homeotic Genes in Plant Genome project Applications of Developmental Biology- Assisted Human Reproduction(ART), Regeneration, Aging, Cell Cyle, Apoptosis, Cancer Sensory and Motor Systems- Introduction to Human Sense organs: receptors, receptor mechanisms and pathways, Motor System Neurobiological basis of Beaviour-Sleep, Stages of sleep, Short term memory and Long term Memory, Neurobiological basis of Gaseases

1. 2. 3. 4.	The introduction of The theory of Math The learner will be	f the self-learning of certain t hematics applied using CAS ready with the knowledge a	te problems arising in other subjects like Physics, Statistics, Operations Research, Law, Economics etc. will get enhancet opics will enhance the learners' ability to understand, apply and experiment. This will give him the ability to think differe techniques and numerical methods will teach the learner how to use Mathematics as a tool in real life problems without and working of computer software which will enhance his iob opportunities. subject of Mathematics and will like to pursue higher studies in the subject of Mathematics.
Semester	Course-Code	Course Title	Course Outcome (in bullets)
I	US-FMA-101	Calculus I	 After studying the topic of Real numbers learner will understand how Mathematical structures are developed f axioms and some of them will start developing affinity for the subject of Pure Mathematics. Learners' problem-solving skills in the basic mathematical concepts in Calculus like sequences, differential equival at the sequenced.
I	US-FMA-102	Discrete Mathematics I	will get ennunces. II. The learner's understanding and problem-solving skills in the basic mathematical concepts of Discrete Mathem will get enhanced and as a result he will start developing affinity for the subject. 2. The learner's mathematical abilities will be enhanced due to in depth and proper study of Logic and thus he gradually be able to use appropriate mathematical language: notations, symbols and terminology, in both oral and we explanations.
п	US-FMA-201	Calculus II	 Learners' problem-solving skills in the basic mathematical concepts in Calculus like Continuity, differentiation, curve sketching will get enhanced. The learner will be introduced to mamerical methods, for problem solving.
П	US-FMA-202	Discrete Mathematics II	 The counting Principles studied in units 1 and 2 will help the learner master quantitative techniques requir for many competitive examinations. In unit3: Graph Theory, the learner is introduced to the study of graphs which have applications in many diverse areas like ecology, chemistry, information technology, computer science, electronics, statistics, socia and management to name a few.
ш	SMT 301	Calculus III	 In this course on multivariable calculus, learners will understand how the concepts of neighbourhood of a point and limit of a function will be generalised to two and three dimensions. Apart from theoretical background learners will be able to apply the concepts to find maxima and minime functions of two variables, level curves, targent planes and normal line to the surfaces in ²³ ³⁴ ³⁵ ³⁵ ³⁵ ³⁵ ³⁶ ³⁶ ³⁶ ³⁶ ³⁶ ³⁶ ³⁶ ³⁶
Ш	SMT 302	Algebra III	 In this course, the learner will gradually understand the connection between Linear Algebra and Euclidea Geometry. The learner will understand the inter-relation between the three topics of system of equations, matrices an determinants which he has been learning from school days. The learner will start from the Euclidean Geometry on [7], R² arght introduced to a special class of vector spaces with the concepts of length, angle and distance defined in the language of Linear Algebra.

ш	SMT 303	Discrete Mathematics III	 The counting Principles studied in unit 1,2 will make the learner master in the quantitative techniques required for many competitive Examinations. 		
IV	SMT 401	Calculus IV	 After studying the topic of Integration with Newton's/Leibnitz definition of integral as an anti-derivative in the higher Secondary school, the learner is first time introduced to a new definition which gives integral of functions which are not continuous. The learners are introduced to many applications of integration and Beta, Gamma functions which are the mathematical looks to get values for variances integrals integrals of the second scheme to the second sch		
IV	SMT 402	Algebra IV	 In this course on group theory, learners will be introduced to the relatively modern branch of mathematics manely, abstract algebra. Learners will be introduced to the problems on symmetric groups, groups of symmetries of regular goar, eyelic groups, generators of cyclic group, group isomorphism, and thereby classifications of all groups of order less than 8 up to isomorphism. 		
IV	SMT 403	Ordinary Differential Equation	 This subject is a natural goal of elementary calculus. It is the most important part of mathematics for understanding the physical sciences. It is the source of most of the ideas and theories which constitute higher analysis. 4. The topic of differential Equation has applications in economics, physics, chemistry, biological sciences and sociology to name a few. 		
3 rd	Not applicable				

Program: B. Sc. PSO Microbiology

1. Understanding the importance of microorganisms as they carry out diverse activities ranging from causing diseases in humans, animals and plants to production of highly useful products like antibiotics, enzymes, alcohol, fermented foods, and recycling of dead and decaying organic matter in the environment.

2. Gives a holistic understanding that explains the interconnected natures of different disciplines of Microbiology like Genetics, Virology, Immunology, Medical Microbiology, Environmental Microbiology, Biochemistry, Healthcare and Diagnostics, Applied and Industrial Microbiology.

3. Developing required attributes of knowledge, skills, temperament and ethics related to the subject of Microbiology for Career in Research and Industry.

CO Microbiology

	Course-Code	Course Title	Course Outcome (in bullets)
1 st	US-FMB- 101	Basics of Microbiology, Cell - structure and function	 Describe the fields and scope of Microbiology To identify anyonos produaryotic and eukaryotic cells & their structures. To understand & experimentally detect macromolecules found in a cell – Nucleic acids, Carbohydrat
			Protein, and Lipids etc.
			1. Able to identify the different parts of the microscope and understand the functions of the same.
	US-FMB-102	Diagnostic and Clinical	2. To describe the use of stains, microscopy and culturing for identifying microorganisms and studying their growth patterns.
	US-FMB-102	Microbiology	 To apply various microscopes and staining processes in diagnosis of infection.
			 To apply various increaciples and standing processes in diagnosis or incertoin. Understand the importance of Biocontainment and its methods.
			 Introduces students to Biostatistics and Bioinformatics.
2 nd	US-FMB-201	Study of Microbial diversity, Growth and Biostatistics	2. To identify the types of microorganisms and their role in the environment and industry.
		Growin and Biostatistics	3. Able to perform tests to identify bacteria and fungi, and studying microbial growth control method
			 Describe the interactions of microorganism with each other and humans.
	US-FMB-202	Microbial interactions and	To understand the role of microbes in human infections and environment.
		Instrumentation	Build a foundation on the concept of host defence and basics of immunology.
			 Understand the use of Instruments in diagnosis.
		Biomolecules and Microbial	 Describe methodologies used for bacterial taxonomy and use of Bergey's manual of systematic bacteriology in classification.
3 rd	USMB- 301	taxonomy	 Describe biomolecules in the biological system
		5	 Experimentally estimate the elements & macromolecules.
			 Understand existence of various microorganisms in the biosphere.
			Explain the role of microorganisms in various ecological niches.
	USMB- 302	Environmental Microbiology	Learn the methods to study various ecological niches.
	55MB- 502	in on memal where on one of the	A deeper understanding of air, soil and aquatic habitats.
	1	1	Describe the biogeochemical cycles and state the significance of each cycle.
			Understand water and air quality standards
	1	1	 Deeper understanding on microbes and their growth
	1	Introduction to Clinical	Choose a suitable culture medium needed for cultivation and study of microorganisms.
	USMB- 303	Introduction to Clinical Microbiology	 Explain physical and chemical methods in microbial control Describe the content of an analysis the content of distribution of the methods in the content of the second secon
		witerobiology	 Describe the anatomy and explain the common infections of human respiratory, digestive, skin & nervous system
			5. Understand epidemiology and importance of public health awareness
			Understand the relevance of thermodynamics in the biological system and principle involved in Bioenergetics.
4^{th}		Metabolism and Basic	 Discuss the link between anabolism and catabolism.
4	USMB- 401	Analytical Techniques	3. Gain knowledge of basic concepts related to enzymes such as mechanisms, activity, inhibition and regulation.
			4. Understand basic principle, working of various analytical techniques and gain knowledge about its applications.
			1. Describe the cells and organs of the immune system; physical and chemical barriers used by the human body to prevent infect
			process of phagocytosis and inflammation.
	USMB- 402	Applied Microbiology	2. Understand interaction of microorganism in food, milk & milk products as well as factors affecting their growth in food.
			Describe milk and food -borne pathogens and discuss the role of microorganisms in food spoilage.
			4. Explain methods of preservation of various food products.
		Fermented foods, Sanitation	 Describe the microorganisms used in production of fermented foods and the process of fermentation with examples. Gain knowledge of Food Safety and discuss techniques involved in ensuring food quality.
	USMB-403	and Microbial Ecology	Gain knowledge of Food Safety and discuss techniques involved in ensuring tood quality. Juderstand behavior & activities of microorganisms in their natural environments.
		and microbial Leology	 Gain insight into important tools & techniques in Microbial Ecology.
			 DNA Replication: The learner will understand the sequence of events, mechanism. enzymes and proteins involved in replication:
			of DNA in prokaryotes and eukaryotes.
			2. Transcription, Genetic Code and Translation: The student will know the central dogma of biology its two-step transcription
			translation, maturation of RNA.
5 th	USMB- 501		3. Mutation and DNA repair: The learner will know the concept of mutation, its types. causes and their effects. This module
5	USMB- 501	Microbial Genetics	also make them understand types of mutagens, damage to DNA due to mutagenesis, various mechanisms of DNA repair.
			4. Genetic exchange: The student shall understand the various mechanisms of gene transfer in bacteria and genetic recombination
			 Genetic exchange: The student shall understand the various mechanisms of gene transfer in bacteria and genetic recombinations. Practicals: The students will acquire skill to perform the laboratory techniques and experiments based on the above topics.
			 Practicals: The students will acquire skill to perform the laboratory techniques and experiments based on the above topics. The students should be able to Give details of the virulence factors and other features of the pathogen.
			 Practicals: The students will acquire skill to perform the laboratory techniques and experiments based on the above topics. The students should be able to Give details of the vinlence factors and other features of the pathogen. Correlate the vinlence factors with the pathogenesis and clinical features of the disease.
	USMD 502	Medical Microbiology and	 Practicals: The students will acquire skill to perform the laboratory techniques and experiments based on the above topics. The atudents should be able to Give details of the vinlence factors and other features of the pathogen. Correlate these virulence factors with the pathogenesis and clinical features of the disease. Comment on the mode of transmission, and therefore modes of prophylaxis of these diseases. Comment on the method
	USMB- 502	Medical Microbiology and Immunology: Part-I	 Practicals: The students will acquire skill to perform the laboratory techniques and experiments based on the above topics. The students should be able to Give details of the virulence factors and other features of the pathogen. Correlate their virulence factors with the pathogensis and clinical features of the disease. Comment on the mode of transmission, and therefore modes of prophylaxis of these diseases Comment on the method diagnosis of the disease.
	USMB- 502		 Practicals: The students will acquire skill to perform the laboratory techniques and experiments based on the above topics. The students should be able to Circe details of the virulence factors and other features of the pathogen. Correlate these virulence factors with the pathogenesis and clinical features of the disease. Comment on the mode of transmission, and therefore modes of prophylaxis of these diseases. Conceptuate, how the daptive immune responses coordinate to fight invading pathogens and the organs and tissue invo
	USMB- 502		 Practicals: The students will acquire skill to perform the laboratory techniques and experiments based on the above topics. The students should be able to Give details of the virulence factors and other features of the pathogen. Correlate their virulence factors with the pathogenesis and clinical features of the disease. Correlate their virulence factors with the pathogenesis of a pathogen of these diseases. Comment on the mode of transmission, and therefore modes of prophylaxis of these diseases. Comment on the method diagnosis of the disease. Corresputize how the adaptive immune responses coordinate to fight invading pathogens and the organs and tissue invo Discuss the role of amingen in initiating the immune response.
	USMB- 502		 Practicals: The students will acquire skill to perform the laboratory techniques and experiments based on the above topics. The students should be able to Give details of the virulence factors and other features of the pathogen. Correlate their virulence factors with the pathogenesis and clinical features of the disease. Correlate their virulence factors with the pathogenesis of a pathogen of these diseases. Comment on the mode of transmission, and therefore modes of prophylaxis of these diseases. Comment on the method diagnosis of the disease. Corresputize how the adaptive immune responses coordinate to fight invading pathogens and the organs and tissue invo Discuss the role of amingen in initiating the immune response.
	USMB- 502		5. Practicals: The students will acquire skill to perform the laboratory techniques and experiments based on the above topics. The students should be able to 1. Give details of the vinlence factors and other features of the pathogen. 2. Correlate the vinlence factors with the pathogenesis and clinical features of the disease. 3. Comment on the mode of transmission, and therefore modes of prophylaxis of these diseases. Comment on the mode of transmission, and therefore modes of prophylaxis of these diseases. Comment on the adaptive immune responses coordinate to fight invading pathogens and the organs and tissue invo Disease the role of antigue in initiating the immune response. 5. Correlate the structure & functions of immunoglobulin Understand the importance of cytokines, MHC, APCs, Cytokines, and
	USMB- 502		 Practicals: The students will acquire skill to perform the laboratory techniques and experiments based on the above topics. The students should be able to Correlate the virulence factors and other features of the pathogen. Correlate the virulence factors with the pathogenesis and clinical features of these disease. Comment on the mode of transmission, and therefore modes of prophylaxis of these diseases. Comment on the method disgnosis of the disease. Comment for a diargien in initiating the immune responses. coordinate to fight invading pathogens and the organs and tissue invo Discuss the role of antigen in initiating the immune response. Correlate the structure & functions of immunoglobulin Understand the importance of cytokines, MHC, APCs, Cytokines, an role and adprive immunity. Understand the various antigen-antibody reactions. Understand the architecture of the membrane and how solute is transported inside the cell.
	USMB- 502		5. Practicals: The students will acquire skill to perform the laboratory techniques and experiments based on the above topics. The students should be able to 1. Give details of the vinlence factors and other features of the pathogen. 2. Correlate the vinlence factors with the pathogenesis and cinical features of the disease. 3. Comment on the mode of transmission, and therefore modes of prophylaxis of these disease. 3. Conceptualize how the adaptive immune responses coordinate to fight invading pathogens and the organs and tissue inverpations of the disease. 4. Conceptualize how the adaptive immune responses coordinate to fight invading pathogens and the organs and tissue inverpations for the structure & functions of immunoglobulin Understand the importance of cytokines, MHC, APCs, Cytokines, and the adaptive immunity. Understand the variance and the structure of the endbard the variance and the variance of the endbard the variance and the adaptive immunity. The structure adaptive transported inside the cell. 3. Describe and explain the electron transport chains in prokayloses and mitchondria and understand the mechanism of .
	USMB-502	Immunology: Part- I	5. Practicals: The students will acquire skill to perform the laboratory techniques and experiments based on the above topics. The students should be able to 1. Give details of the virulence factors and other features of the pathogen. 2. Correlate the virulence factors with the pathogenesis and clinical factors of these disease. 3. Comment on the mode of transmission, and therefore modes of prophylaxis of these diseases. Comment on the method ingravis of the disease. 4. Conceptualize how the adaptive immune responses coordinate to fight invading pathogens and the organs and tissue invo Discuss the role of antigen in minitary in the immune response. 5. Correlate the structure & functions of immunoglobulin Understand the importance of cytokines, MHC, APCs, Cytokines, an role and adprive immunity. Understand the various attruction. The students should be able to 1. Understand the architecture of the membrane and how solute is transported inside the cell. 2. Describe and explain the electron transport chains in prokaryotes and mitochondria and understand the mechanism of , synthesis.
	USMB- 502 USMB- 503	Immunology: Part- I Microbial Biochemistry: Part	5. Practicals: The students will acquire skill to perform the laboratory techniques and experiments based on the above topics. The students should be able to 1. Give details of the vinlence factors and other features of the pathogen. 2. Correlate the vinlence factors with the pathogenesis and clinical features of the disease. 3. Comment on the mode of transmission, and therefore modes of prophylaxis of these diseases. Comment on the mode of transmission, and therefore modes of prophylaxis of these diseases. 4. Coreceptualize how the adaptive immune responses coordinate to fight invading pathogens and the organs and tissue invo Diseases there to a diagtive immunity. Understand the various antigene-anihody reactions. The students should be able to 1. Understand the various antigene-anihody reactions. The students should be able to 2. Describe and explain the color transport chains in prokaryotes and mitochondria and understand the mechanism of synthesis. 3. Explain bolomininescence mechanism and its significance.
		Immunology: Part- I	5. Practicals: The students will acquire skill to perform the laboratory techniques and experiments based on the above topics. The students should be able to 1. Give details of the vinlence factors and other features of the pathogen. 2. Correlate the virulence factors with the pathogenesis and clinical features of these disease. 3. Commont on the mode of transmission, and therefore modes of prophylaxis of these disease. Someone of the adaptive immune responses coordinate to fight invading pathogens and the organs and tissue for adaptive immune responses. 4. Conceptualize how the adaptive immune responses coordinate to fight invading pathogens and the organs and tissue invo Diseass the role of antigen in minitaring the immune response. 5. Correlate the structure & functions of immunoglobulin Understand the importance of cytokines, MHC, APCs, Cytokines, an role an adquiré unimaint. Puderstand the various attrue antibody reactions. The students should be able to 1. Understand the architecture of the membrane and how solute is transported inside the cell. 2. Describe and explain the electron transport chains in prokaryotes and mitochondria and understand the mechanism of <i>a</i> without is experimented aspect of studying establism. 3. Explain bioluminescence mechanism and its significance. 4. Discuss the elect of studying establism and anabolism and the various pathways for the breakdown
		Immunology: Part- I Microbial Biochemistry: Part	5. Practicals: The students will acquire skill to perform the laboratory techniques and experiments based on the above topics. The students should be able to 1. Give details of the vinlence factors and other features of the pathogen. 2. Correlate the vinlence factors with the pathogenesis and clinical features of the disease. 3. Comment on the mode of transmission, and therefore modes of prophylaxis of these diseases. Comment on the method diagnosis of the disease. 4. Conceptualize how the adaptive immune responses coordinate to fight invading pathogens and the organs and tissue invo Discuss the role of antigen in initiating the immune response. 5. Correlate the structure & functions of immunoglobulin Understand the importance of cytokines, MHC, APCs, Cytokines, an mele in adaptive immunity. Understand the various antigen-antitholy reactions. The students should be able to 1. Understand the achievent of the membrane and how solute is transported inside the cell. 2. Describe and cylapia the electron transport chains in prokaryotes and mathedina and understand the mechanism of <i>s</i> wurthesis. 3. Explain bioluminescence mechanism and its significance. 4. Discuss the caperimental aspect of studying catabolism and anabolism and the various pathways for the breakdows carbolism.
		Immunology: Part- I Microbial Biochemistry: Part	5. Practicals: The students will acquire skill to perform the laboratory techniques and experiments based on the above topics. The students should be able to 1. Give details of the vinlance factors and other features of the pathogen. 2. Correlate the virulence factors with the pathogenesis and clinical features of these disease. 3. Comment on the mode of transmission, and therefore modes of prophylaxis of these disease. Somment on the method diagnosis of the disease. 4. Conceptualize how the adaptive immune responses coordinate to fight invading pathogens and the organs and tissue invo Diseases the role or adingen in individuel the virulence factors of moment to fight invading pathogens and the organs and tissue invo Diseases the role or adingen in initiating the immune response. 5. Correlate the structure & functions of immunoglobulin Understand the importance of cytokines, MHC, APCs, Cytokines, an role an adquire immunity. Understand the various angree antibody reactions. The students should be able to 1. Understand the architecture of the membrane and how solute is transported inside the cell. 2. Describe and explain the electron transport chains in prokaryotes and mitochondria and understand the mechanism of <i>i</i> avarbusis. 3. Explain bioluminescence mechanism and its significance. 4. Discuss the correst of studying catabolism and anabolism and the various pathways for the breakdown cardbolvrdates along with reactions which produce different end products.
		Immunology: Part- I Microbial Biochemistry: Part	5. Practicals: The students will acquire skill to perform the laboratory techniques and experiments based on the above topics. The students should be able to 1. Give details of the vinlence factors and other features of the pathogen. 2. Correlate the vinlence factors with the pathogenesis and clinical features of these disease. 3. Comment on the mode of transmission, and therefore modes of prophytaxis of these diseases. Comment on the method diagnosis of the disease. 4. Conceptualize how the adaptive immune responses coordinate to fight invading pathogens and the organs and tissue invo Discuss the role of amagen in initialize the immune response. 5. Correlate the structure & functions of immunoglobulin Understand the importance of cytokines, MHC, APCs, Cytokines, and ein adaptive immunity. Understand the virinos antigon-antitody reactions. The students should be able to 1. Understand the architecture of the membrane and how solute is transported inside the cell. 2. Describe and explain the electron transport chains in prokaryotes and minochondria and understand the mechanism of <i>A</i> winfusis. 3. Explain blouminescence mechanism and its significance. 4. Discuss the experimental aspect of studying catabolism and nabolism and the various pathways for the breakdow carbohydrate solutior with reactions in amphibolic pathways. 5. Describe various other pathways which produce different end products. 6. Describe and/olic reactions in carbohydrate solutions.
		Immunology: Part- I Microbial Biochemistry: Part	5. Practicals: The students will acquire skill to perform the laboratory techniques and experiments based on the above topics. The students should be able to 1. Give details of the vinitance factors and other features of the pathogen. 2. Correlate the viritance factors with the pathogenesis and clinical features of these disease. 3. Commont on the mode of transmission, and therefore modes of prophylaxis of these disease. Somment on the method diagnosis of the disease. 4. Correlate the structure & factors in and therefore modes of prophylaxis of these disease. Somment on the method diagnosis of the disease. 5. Correlate the structure & functions of immungelobulin Understand the importance of cytokines, MHC, APCs, Cytokines, an role an adquiré unimative the various antigena influedy reactions. The students should be able to 1. Understand the architecture of the membrane and how solute is transported inside the cell. 2. Describe and explain the electron transport chains in prokaryotes and mitochondria and understand the mechanism of <i>L</i> synthesis. 3. Explain bioluminescence mechanism and its significance. 4. Discuss the corport of studying catabolism and anabolism and the various pathways for the breakdown cardbidyndrus along with reactions in archbydnic pathways. 5. Describe anabolic reactions in actabolyting structures.
		Immunology: Part- I Microbial Biochemistry: Part	5. Practicals: The students will acquire skill to perform the laboratory techniques and experiments based on the above topics. The students should be able to 1. Give details of the vinlence factors with the pathogenesis and clinical features of the disease. 2. Correlate the vinlence factors with the pathogenesis and clinical features of these diseases. Comment on the mode of transmission, and therefore modes of prophytaxis of these diseases. Comment on the mode of transmission, and therefore modes of prophytaxis of these diseases. 4. Conceptualize how the adaptive immune responses coordinate to fight invading pathogens and the organs and tissue invo Discuss the role of amingen in initiating the immune response. 5. Correlate the structure & functions of immunoglobulin Understand the importance of cytokines, MHC, APCs, Cytokines, and ele adaptive immunity. Understand the vincous antigen-maintody reactions. The students should be able to 1. Understand the architecture of the membrane and how solutic is transported finde the cell. 2. Describe and explain the electron transport chains in prokaryotes and mitochondria and understand the mechanism of <i>J</i> vunbesis. 3. Explain bioluminescence mechanism and its significance. 4. Discuss the experimental aspect of studying catabolism and anabolism and the various pathways for the breakdown carbohydrate synthesis in ambibilic pathwares and products. 6. Describe andiosi reactions in ambibility and the ordicate. 7. Apply the concepts of enzergies and catabolism in biodegraduation of various substrates. The students bould be able to
		Immunology: Part- I Microbial Biochemistry: Part	5. Practicals: The students will acquire skill to perform the laboratory techniques and experiments based on the above topics. The students should be able to 1. Give details of the vinitance factors and other features of the pathogen. 2. Correlate the vinitance factors with the pathogenesis and clinical features of the disease. 3. Commont on the mode of transmission, and therefore modes of prophytaxis of these diseases. Comment on the method diagnosis of the disease. 4. Coreceptualize how the adaptive immune responses coordinate to fight invading pathogens and the organs and the disease. 5. Correlate the structure & functions of immunoglobulin Understand the importance of cytokines, MHC, APCs, Cytokines, an rule an adaptive tumming. Vaderstand the various attegrate-antihody reactions. The students should be able to 1. Understand the architecture of the membrane and how solute is transported inside the cell. 2. Describe and explain the electron transport chains in prokaryotes and mitochondria and understand the mechanism of <i>i</i> avarithesis. 3. Explain bioluminescence mechanism and its significance. 4. Discuss the color so other pathways which produce different end products. 5. Describe and solutions other pathways which produce different end products. 4. Discuss the applications of microbes and ratio targention in biodegradution of various substrates. The students should be able to 1. Describe the applications of microbes and its strain inprovement in Industrial Microbiology.
	USMB- 503	Immunology: Part- I Microbial Biochemistry: Part	5. Practicals: The students will acquire skill to perform the laboratory techniques and experiments based on the above topics. The students should be able to 1. Give details of the vinitance factors and other features of the pathogen. 2. Correlate the vinitance factors with the pathogenesis and clinical features of the disease. 3. Commont on the mode of transmission, and therefore modes of prophytaxis of these diseases. Comment on the method diagnosis of the disease. 4. Coreceptualize how the adaptive immune responses coordinate to fight invading pathogens and the organs and the disease. 5. Correlate the structure & functions of immunoglobulin Understand the importance of cytokines, MHC, APCs, Cytokines, an rule an adaptive tumming. Vaderstand the various attegrate-antihody reactions. The students should be able to 1. Understand the architecture of the membrane and how solute is transported inside the cell. 2. Describe and explain the electron transport chains in prokaryotes and mitochondria and understand the mechanism of <i>i</i> avarithesis. 3. Explain bioluminescence mechanism and its significance. 4. Discuss the color so other pathways which produce different end products. 5. Describe and solutions other pathways which produce different end products. 4. Discuss the applications of microbes and ratio targention in biodegradution of various substrates. The students should be able to 1. Describe the applications of microbes and its strain inprovement in Industrial Microbiology.
		Immunology: Part-1 Microbial Biochemistry: Part -1	5. Practicals: The students will acquire skill to perform the laboratory techniques and experiments based on the above topics. The students should be able to 1. Give details of the vinlence factors with the pathogenesis and clinical features of the disease. 2. Correlate the vinlence factors with the pathogenesis and clinical features of these disease. Comment on the mode of transmission, and therefore modes of prophylaxis of these diseases. Comment on the mode of transmission, and therefore modes of prophylaxis of these disease. 3. Correlate the vinlence factors with the pathogenesis and clinical features of the disease. 4. Corceptualize how the adaptive immune responses coordinate to fight invading pathogens and the organs and tissue invo Discuss the role of amigne in initiating the immune response. 5. Correlate the structure & functions of immunoglobulin Understand the importance of cytokines, MHC, APCs, Cytokines, an role in adaptive immunity. Understand the vincous antigen-antitody reactions. The students should be able to 1. Understand the architecture of the membrane and how solutic it transported finde the cell. 2. Describe and explain the electron transport chains in prokaryotes and mitochondria and understand the mechanism of a window and the architecture of the studying catabolism and anabolism and the various pathways for the breakdows carbohydrate synthesis. 3. Explain bioluminescence mechanism and its significance. 4. Discuss the experimental aspect of studying catabolism and anabolism and the various pathways for the breakdows carbohydrate synthese. 5. Osceribe various other raptivoys which produces different end products. 6. Describe andiolic reactions in antibolic indiversant and products. 7. Apply the concepts of arcregations and starting structures application of various substrates. The students should be able to 1. Describe the applications of microbydrate syntheser or back, continuous, fed batch and solid substrates.
	USMB- 503	Immunology: Part-1 Microbial Biochemistry: Part -1	5. Practicals: The students will acquire skill to perform the laboratory techniques and experiments based on the above topics. The students should be able to 1. Give details of the virilence factors and other features of the pathogen. 2. Correlate the virulence factors with the pathogenesis and clinical features of these disease. 3. Comment on the mode of transmission, and therefore modes of prophylaxis of these disease. Comment on the method diagnosis of the disease. 4. Conceptualize how the adaptive immune responses: coordinate to fight invading pathogens and the organs and tissue invo Diseasus there ido rangen in indicating the immune response. 5. Correlate the structure & functions of immunoglobulin Understand the importance of cytokines, MHC, APCs, Cytokines, an role an adaptive immunity. Understand the various antizeria-antibody reactions. The students should be able to 1. Understand the architecture of the membrane and how solute is transported inside the cell. 2. Describe and explain the electron transport chains in prokaryotes and mitochondria and understand the mechanism of <i>i</i> synthesis. 3. Explain bioluminescence mechanism and its significance. 4. Discuss the cole correlate of studying catabolism and anabolism and the various pathways for the breakdown carbohydrates along with reactions in amphibolic pathways. 5. Describe analobic reactions in amphibolic pathways. 7. Andv the concerts of marceling catabolism in biodegraduin of various substrates. The students should be able to 1. Doescribe date policitions of microbes and catabolism in hidograduin of various substrates. The students should be able to 1. Discuss the applications of microbes and catabolism in hidograduit of various substrates. The students should be able to 1. Doescribe adplicitions of microbes and its train improvement in Industrial Microbiology. 2. Apply kinetic formula to determine growth and productivity parameters of batch, continuous, fed batch
	USMB- 503	Immunology: Part-1 Microbial Biochemistry: Part -1	5. Practicals: The students will acquire skill to perform the laboratory techniques and experiments based on the above topics. The students should be able to 1. Give details of the virulence factors and other features of the pathogen. 2. Correlate the virulence factors with the pathogenesis and clinical features of these disease. Commont on the mode of transmission, and therefore modes of prophytaxis of these disease. Commont on the mode of transmission, and therefore modes of prophytaxis of these disease. Comcentual the structure & functions of immune responses coordinate to fight invading pathogens and the organs and tissue invo Discuss the role of amignin in initiating the immune response. Correlate the structure & functions of immunoglobulin Understand the importance of cytokines, MHC, APCs, Cytokines, an role in adaptive immune response. Correlate the architecture of the membrane and how solute is transported inside the cell. Describe and explain the electron transport chains in prokaryotes and mitochondria and understand the mechanism of <i>i</i> symbolics. The students should be able to Discuss the cole cytor of studying catabolism and anabolism and the various pathways for the breakdown eurobordwards along with reactions in amphibalic rathways. Discuss the cole cytoria of studying catabolism and anabolism. The students bould be able to Describe anabolic reactions in carebolydrate symboxis. Apply the concerns of emergeties and catabolism in biodernatuation of various updatures. Discuss the cole of studying catabolism and anabolism and the various pathways for the breakdown eurobordwards along with reactions in antibibalism in biodernatuation of various undatures. Describe anabolic reactions in carebolydrate symboxis. Apply the concerns of mergeties and catabolism in biodernatuation of various substrates. The students bould be able to Describe the applications of microbes and is train improvement in Industrial Microbiology.
	USMB- 503	Immunology: Part-1 Microbial Biochemistry: Part -1	5. Practicals: The students will acquire skill to perform the laboratory techniques and experiments based on the above topics. The students should be able to 1. Give details of the vinlames factors and other features of the pathogen. 2. Correlate the vinlames factors with the pathogenesis and clinical features of the disease. 3. Commont on the mode of transmission, and therefore modes of prophylaxis of these disease. Semiment on the method diagnosis of the disease. 4. Coreceptualize how the adaptive immune responses coordinate to fight invading pathogens and the organs and the disease. 4. Coreceptualize how the adaptive immune responses coordinate to fight invading pathogens and the organs and the disease. 5. Correlate the structure & functions of immunoglobulin Understand the importance of cytokines, MHC, APCs, Cytokines, an rule an adaptive immunity. Inderstand the various attractions. The students should be able to 1. Understand the architecture of the membrane and how solute is transported inside the cell. 2. Describe and explain the electron transport chains in prokaryotes and mitochondria and understand the mechanism of <i>i</i> avarbus: 3. Explain bioluminescence mechanism and its significance. 4. Discuss the coils one other synthesis. 5. Describe analositie respirations in archibolite pathways. 5. Describe analositie reactions in archibolite pathways. 5. Describe analositie reactions in archibolite pathways. 7. Apply the coccepts of mergeticas and catabolism in biodegradution of various substrates. The students should be able to 1. Oscribe the applications of microbes and its strain improvement in Industrial Microbiology. 2. Apply kinetic formula to determine growth and productivity parameters of batch, continuous, fed batch and solid substemmentations. 3. Describe the design of bioreactors for different applications of networks and techning exploration of therestrest and behading and bioreactors for different applications o
	USMB- 503	Immunology: Part-1 Microbial Biochemistry: Part -1	5. Practicals: The students will acquire skill to perform the laboratory techniques and experiments based on the above topics. The students should be able to 1. Give details of the virulence factors and other features of the pathogen. 2. Correlate the virulence factors with the pathogenesis and clinical features of these disease. Commont on the mode of transmission, and therefore modes of prophytaxis of these disease. Commont on the mode of transmission, and therefore modes of prophytaxis of these disease. Commont on the mode of transmission, and therefore modes of prophytaxis of these disease. Comcate the structure & functions of immuno response. Correlate the structure & functions of immunoglobulin Understand the importance of cytokines, MHC, APCs, Cytokines, and elia adaptive immunity. Understand the virulence factors and gover and the variant of the most of the architecture of the membrane and how solute is transported finisde the cell. Decorrbe and explain the electron transport chains in prokaryotes and mitochondria and understand the mechanism of <i>i</i> symflexian should be able to Discuss the coll experimental aspect of studying cataltherate data products. Describe and explain the electron transport chains in prokaryotes and mabolism and the various pathways for the breakdown carbohydrates along with reactions in anythibbile pathways. Describe varies of the adaptive of studying catabolism and anabolism. The students should be able to Describe anabolic reactions in acrobohydrate synthesis. Apply the concerpts of margine and there and the adaptive synthesis. Apply the concerpts of margines and its strain improvement in Industrial Microbiology. Apply kince formal to defact applications and techniques of batch and solid stable formations. Describe the desplay of bioreactors for different applications and its process parameters. Describe the desplay of bioreactors for productive parameters of batch, continuous, fed batch and solid
	USMB- 503	Immunology: Part-1 Microbial Biochemistry: Part -1	5. Practicals: The students will acquire skill to perform the laboratory techniques and experiments based on the above topics. The students should be able to 1. Give details of the virulence factors and other features of the pathogen. 2. Correlate the virulence factors with the pathogenesis and clinical features of these disease. Commont on the mode of transmission, and therefore modes of prophytaxis of these disease. Commont on the mode of transmission, and therefore modes of prophytaxis of these disease. Comcentual the structure & functions of immune responses coordinate to fight invading pathogens and the organs and tissue invo Discuss the role of amignin in initiating the immune response. Correlate the structure & functions of immunoglobulin Understand the importance of cytokines, MHC, APCs, Cytokines, an role in adaptive immune response. Correlate the architecture of the membrane and how solute is transported inside the cell. Describe and explain the electron transport chains in prokaryotes and mitochondria and understand the mechanism of <i>i</i> symbolics. The students should be able to Discuss the cole cytor of studying catabolism and anabolism and the various pathways for the breakdown eurobordwards along with reactions in amphibalic rathways. Discuss the cole cytoria of studying catabolism and anabolism. The students bould be able to Describe anabolic reactions in carebolydrate symboxis. Apply the concerns of emergeties and catabolism in biodernatuation of various updatures. Discuss the cole of studying catabolism and anabolism and the various pathways for the breakdown eurobordwards along with reactions in antibibalism in biodernatuation of various undatures. Describe anabolic reactions in carebolydrate symboxis. Apply the concerns of mergeties and catabolism in biodernatuation of various substrates. The students bould be able to Describe the applications of microbes and is train improvement in Industrial Microbiology.

6 th	USMB-601	rDNA Technology, Bioinformatics and Virology	 Gene Regulation and Basic Virology: The student will know about gene expression in prokaryotes, operon as a unit of gene regulation, regulation of gene expression in prokaryotes; and bacteriophages. The student will also understand about general structure, life cycle and cassification of viruses. Advanced Virology: The learner will understand the basic structure and life cycle of different viruses and their aultivation. The student will absic knowledge on Priors, Viroids and viruses causing cancer. Practicals: The students will acquire skill to perform the laboratory techniques and experiments based on the above topics. The students will acquire skills on advical techniques.
	USMB- 602	Medical Microbiology and Immunology: Part- II	1. Give details of the virulence factors and morphological and cultural features of the pathogen. 2. Correlate the virulence factors with the pathogenesis and clinical features of the disease. 3. Comment on the mode of transmission, and modes of prophylaxis of these disease. 4. Given a few key clinical features, identify the likely causative agent. 5. Comment on the modes of anomalous of the disease. 4. Given a few key clinical features, identify the likely causative agent. 5. Comment on the modes of anomalos of the disease. 6. Understand the structure and role of T and B cells in generating adaptive immunity and thereby study effector responses in both Humorial & Cell Mediated Immunity. Acquire an understanding of the role of immune system in disease. 7. Understand the activation of complement system. Apply the concept of immunity to prevention of disease by development of vaccines.
	USMB- 603	Microbial Biochemistry: Part – II	Understanding of the following metabolic process and their significance. 1. Metabolism of Froits, Fay acids, Nucleotides and Amino acids 2. Catabolism of Protein and aliphatic hydrocarbons 3. Regulation of metabolic process a variaous levels 4. Photosynthesis 5. Metabolism of norganism molecules with special reference to nitrate and sulfate 6. Biological Nitrogen fraction 7. Lithertophy Acquire the following rematching align of microgramisms producing lipase, PHB and protease 8. Screening of microgramisms producing lipase, PHB and protease 9. Detection of activity of enzymes which play an important role in amino acid and nitrate metabolism. 10. Quantitative detection of an important metabolic enzymes.
	USMB-604	Bioprocess Technology: Part – II	Understand the actual process involved in fermentations of important products. To apply the knowledge of applications of maintal and plant issue culture techniques. Learn the applications of immobilized enzymes in various fields. Understand the working of important instruments used in biochemical analysis and bioassav. Learn the salient features of quality management and regulatory procedures. Acquire the following practical skills: Compared to a single a bioassay, immobilization of cells & sterility testing Preliminary techniques in animal & plant tissue culture.

Program Specific (. The program air . This Course take . It also explains I . Along with the O	ns to offer the basic es the students throu conomic and Ecolo Classical Zoology it a	gh the fascinating world of an gical importance of the Anima also includes Biodiversity, Var	al Kingdom and their functioning of various physiological, metabolic, biochemical aspects. imals and their habitats. Is and the Conservation Strategies. ious aspects of Animal Biotechnology and understanding the principles of Instrumentation. ious aspects of Animal Biotechnology and understanding the principles of Instrumentation. chemables the students to strengthen their knowledge in Animal Sciences and helps to develop and understanding of scop
Semester	Course-Code	Course Title	Course Outcome (in bullets)
lst	US-F-ZO-101	Diversity and Wonders of Animal Kingdom-I	 Curiosity will be ignited in the mind of learners, to know more about the fascinating world of animals which wor enhance their interest and love for the subject of Zoology. Learners would know and appreciate the treasure of Biodiversity, its importance and hence would contribute their b for its conservation.
1 st	US-F-ZO-102	Laboratory Safety, Units of Measurement, Instrumentation and Animal Biotechnology	 Learners would work safely in the laboratory and avoid occurrence of accidents (mishaps) which will boost th scholastic performance and economy in use of materials/chemicals during practical sessions. Learners would understand recent advances in the subject and their applications for the betterment of mankind; that the young minds would be tuned to think out of the box. Students will be skilled to select and operate suitable instruments for the studies of different components of Zools of this course and also of histor classes including research.
2 nd	US-F-ZO-201	Diversity and Wonders of Animal Kingdom, Population Ecology and Wild Life Management	or this course can also impact classes including research. Curoisity will be ignited in the mind of learners, to know more about the fascinating world of animals which we enhance their interest and lowe for the subject of Zoology. This unit would allow learners to study about nature of animal population, specific factors affecting its growth and impact on the population of other life form. Learners would be inspired to choose career options in the field of wild life conservation, research, photography ecotourism
2 nd	US-F-ZO-202	Nutrition, Public Health and Hygiene and Common Diseases	 Healthy dietary habits would be inculcated in the life style of learners in order to prevent risk of developing heat hazards in younger generation due to faulty eating habits. Promoting optimum conservation of water, encouragement for maintaining adequate personal hygiene, optimum use electronic gadgets, avoiding addiction, thus facilitating achievement of the goal of healthy young India in true sense. Learners will be able to promptly recognize stress related problems at initial stages and would be able to advect the source of cause, symptoms and precautions of infectious diseases.

Department of AIC

Semester	Course-Code	Course Title	Course Outcome (in bullets)
I [2014-2017]	4.4	Archeology of India	 Creating awareness about the theoretical foundations of Archeology Teaching basics of field Archeology Understanding the variation in Archeological data in context Methods of interpretation of Archeological data and analyses
I [2017-2018]	4.15 Archeology		no course outcomes have been listed in the mumbai university website
II [2014-17]	4.4	Museology of India	 Creating awareness about the theoretical foundations of Museology Understanding various functions and scope of the Museum Understanding relation between Museum and society
II[2017-18]	4.15	Cultural History of Mumbai	No course outcomes have been listed in the Mumbai University website
Ш	UAAIC 301 India through the Ag		 Study of Cultural History of India. Understanding various phases in and the process of the evolution of Indian Culture. Review of the Theoretical framework in which the Indian Culture has been understood by the scholars.
Ш	UAAIC 302	Social history of India	 Study of Basic Structure of Indian Society. Study of principles guiding the Indian Social Institution. Study of important feature of Indian Society.
IV	UAAIC401	India through the Ages II	 Study of Cultural History of India. Understanding various phases in and the process of the evolution of Indian Culture. Review of the Theoretical framework in which the Indian Culture has been understood by the scholars.
IV	UAAIC 402	Economic history of India	 Study of Basic Structure of Ancient Indian Economic Institution. Study of principles guiding the set up. Study of important feature of Ancient Indian Economic Institutions.

Program: B. A.

Specific Program: B.A. Economics

Program Specific Outcome (PSO):

1. Develops an understanding of the core micro and macroeconomic principles and models and how they apply to a wide range of real-world issues.

2. Enhances the ability to critique and create economic research by mastering the theoretical and applied tools.

3. Familiarise with the salient developments in the Indian and world economy, in both present-day and historical contexts.

4. Develops research and advocacy skills through critical pedagogies in the classroom and through individual and group applied projects.

Program: Mass Media Specific Program: BAFTNMP

Program Specific Outcome (PSO):

1.Introduces a critical, intersectional lens to analyse institutional structures and social realities.

2. Maps the complexities and nuances of social processes and social structures with particular reference to India

3. Gives a holistic understanding that explains the interconnected natures of oppressions and underlines the importance of institutional accountability

4.Develops research and advocacy skills through critical pedagogies in the classroom and through individual and group applied projects

5. Develops an overall and well-rounded understanding of sociology through theoretical paradigms, methodological debates and the study of substantive domains

6.Build's skills that enhance prospects for employment in various fields like governance and policy, development and intervention, electronic visual and print media, human resource and personnel management, nongovernmental organizations.

Course-Code	Course Title	Course Outcome (in bullets)
UHFFT101	Effective Communication	 To make the students aware of functional and operational use of language in media. To equip or enhance students with structural and analytical reading, writing and thinking skills. To introduce key concepts of communications.
UHFFT102	Foundation Course I	To introduce students to the overview of the Indian Society. To help them understand the constitution of India. • To acquaint them with the socio-political problems of India
UHFFT103	Fundamentals of Mass Communication	To introduce students to the history, evolution, and the development of Mass Communication in the world with special reference to India. To study the evolution of Mass Media as an important social institution. To understand the development of Mass Communication models. To develop a critical understanding of Mass Media. • To understand the concept of New Media and Media Convergence and its implications.
UHFFT104	History of Arts	 To understand the basics and genres of Music, dance and theatre. To learn the basics of various acting schools and the art of drama. To learn the evolution of visual techniques from painting to cinema & the relationship between music and dance in relation to Filmmaking. Students should be exposed to the canonical text of Natyashastra from where all the traditional performing arts have emerged in India
UHFFT105	Basic Photography	 To learn the basics of art of Photography. To develop basic photographic sense and knowledge. To understand the basic intricacies & aesthetics involved in taking a photograph. To understand what makes a good picture.
	UHFFT101 UHFFT102 UHFFT103 UHFFT104	UHFFT101 Effective Communication UHFFT102 Foundation Course I UHFFT103 Fundamentals of Mass Communication UHFFT104 History of Arts UHFFT105 Basic

I	UHFFT106	Technology in Media I	To aid learners understand the basics of graphic designing To prepare learners with introductory knowledge of design software used in media industry • To help learners work on small scale projects with hands-on training of computer-aided technology
II	UHFFT201	Introduction to Literature and Creative Writing	To introduce basic tenets of Indian literature including regional literature To introduce and appreciate various forms of literature (Novel, Poetry, Drama, Essay) To help build skills for creative writing To help understand the structure of Story, poetry and drama To introduce writing for internet
II	UHFFT202	Foundation Course - II	To acquaint the students with fundamental political concepts essential for understanding political systems and theories. To orient the students to the Indian Constitution and the functioning of the Indian political system. To provide the students with a strong base in the 'Indian Political System' and to expose them to its dynamics and complexities. To establish a link between Politics and Media
II	UHFFT203	Film Appreciation	To introduce students to the history, evolution and the development of Mass Communication in the world with special reference to India. To study the evolution of Mass Media as an important social institution. To understand the development of Mass Communication models. To develop a critical understanding of Mass Media. To understand the concept of New Media and Media Convergence and its implications.
II	UHFFT204	Basics of Cinematography	To understand the importance of cinematography in film making To enhance the basic knowledge about lighting and its use To understand various equipment's required for various form of lighting To understand the basics of various camera, lenses and digital cinematography
II	UHFFT205	Introduction to Non-Fiction Films	To understand non-fiction as a form of storytelling To be familiar history of non-fiction film To explore key issues in the ethics of documentary representation To learn to critically analyse non-fiction films
II	UHFFT206	Technology in Media-II	To introduce editing software used in media industry To help learners understand the importance of editing in multimedia To prepare learners with basic knowledge of sound and video editing To help learners work on small scale projects with hands-on training of computer-aided technology
III		Introduction to Direction for Television	Understanding of the process of Direction for Television Theoretical framework and practical approach to Direction Creating Ads for various categories
III		Basics of Cinematography- 2	To understand the basic structure of film and digital camera To enhance the basic knowledge about lighting and its use To understand various equipments required for various form of mood lighting To understand basics of various digital cameras, lenses and digital cinematography To learn the basics of special effects cinematography

		To understand the needs of co-creators
		To understand how television programming works
	Understanding	To learn about TRPs and drama creation
III	TV formats &	To study the impact of niche programming
	Genres	To learn about various genres of televisionprogramming
		To understand the need for storyboarding
		To learn the fundamentals of shoot taking and Division
III	1 5	To understand various storyboarding techniques
	5	To understand the importance of perspective and lighting while storyboarding
	Graphics and	To understand the importance of perspective and lighting while story boarding
	Post production -	
III	Flash, Editing	
	software, After	
	effects	
		To introduce the process of 25 mins Television series making
	Production/Ad	To understand the production pipeline of 25 mins Television series making process
III	film making	To understand the entire workflow 25 mins Television series making process
	initi maxing	To gain exposure on various cameras and software used for production of 25mins Television
		series making
		To understand the need for direction in films
		To understand the role played by a director
	Introduction to	Tounderstand the Qualities required to be a director
IV	Direction for Film	To learn how to manage creativity and creative team
		To learn about drama and continuity for films
		To learn the details, involve inthe production of a feature films
		To understand Basic concepts in Visual Communication
		To understand the nuances of visual literacy,
IV	Communication	Methods used for analyzing visual media,
		 Theories on the relationship between visual communication and culture.
1		 to provide an introduction to the process of digital short film production for the purpose of making
		works of drama and fiction.
137	Drama	• To enable the development of the practical and theoretical skills in pitching, planning, writing,
IV	Production	shooting and editing .
		 To finally produce a coherent and competent fictional moving image project.
		To understand the production pipeline of film making process in advertisement film making
	Intermediate	To introduce the process of Advertisement Film (product as well as PSU) Corporate AV and In-depth
		Multiple Characters Single Multiple Location Short Film making
IV	Making (Au anu	To understand the entire workflow in Advertisement Film (product as well as PSU) Corporate AV and In-depth Multiple Characters Single Multiple Location Short Film
	Short Fiction	
	-	To gain exposure on various cameras and software used for production of Advertisement Film (product
		as well as PSU) Corporate AV and In-depth Multiple Characters Single Multiple Location Short Film

V	Laws related to Films, TV and Internet New Media	 To understand the various laws pertaining to media To understand the need and importance of Copyright To learn about intellectual property rights To understand about media business ethics and issues pertaining to it To learn the latest software for creating websites, including Adobe Dreamweaver and Java
V	Theory and Practice (With advanced Web design and app making)	To learn Audio and Video streaming and how to embed audio and video content in web pages Frames, Layers & SEO Creating Vernacular language websites New Media, Gaming and Social Media
V	Understanding Indian Contemporary Cinema	To understand the evolution and growth of Cinema as a medium of Mass Communication in India . To study the relevance of Indian Cinema and its different genres amongst audiences To Study the contemporary mainstream and art house Indian films , regional language films , film directors and their contribution to the Indian film world To understand trends in film making & marketing
v	Introduction to Media Project Management	To educate about the basics involved in a media project management To educate about the basic projectproduction workflow and management To educate about the role of a project manager To help understand the details involving a new business project or proposal
v	Basics of Marketing and Publicity	To introduce the basics of marketing and publicity design To educate about the importance of marketing in today's world To help understand the various tools needed for marketing and publicity design To learn about the marketing plan and market research To help get insight into consumer consumption behavior
v	Advanced Practical Film Making - Music Videos	To introduce the process of Music Video To understand the production pipeline of Music Video To understand the entire workflow in Music Video making process To gain exposure on various cameras and software used for production of Music Video
VI	Final Project- Short Film (30 minutes)	 Making a Comprehensive film Writing an original story , producing ,directing the film and distribution of the film To learn to create a blog, FB page and website for the film.

Program: Bachelors of Arts

Specific Program: B.A. in Multimedia and Mass Communication

Program Specific Outcome (PSO):

. **1.** To think analytically, creatively and critically in developing robust, extensible and highly maintainable technological solutions in Media to simple and complex problems related to human, technology and environmental factors.

- 2. To appreciate the interdisciplinary aspect of Media and
- 3 .To work effectively as a part of a media team to achieve a common stated goal.
- 4. To adhere to the highest standards of ethics, including relevant industry and organizational codes of conduct. in Media
- 5 .To develop an aptitude to engage in continuing educational and professional development related to Media
- 6. Most Media courses keep evolving and so do the courses, the above mentioned are some of the objectives that need to be adhered to by students in Media academics.

The syllabus spanning three years covers the industry endorsed relevant courses. The students will be ready for the jobs available in different fields of media. **Course Outcome (COs):**

Semester	Course-Code	Course Title	Course Outcome (in bullets)
		EFFECTIVE	1. To make the students aware of functional and operational use of language in media.
1 st	UHFMMEC-101	COMMUNICATIO	2. To equip or enhance students with structural and analytical reading, writing and thinking skills.
		N-I	3. To introduce key concepts of communications
	UHFMMFC-102	FOUNDATION COURSE FOR MEDIA-I	1. To introduce students to the overview of the Society with special reference to India
	UHFMMCMM 103	COMPUTERS & MULTIMEDIA -I	 To help learners make media industry ready. This will help learners to be aware of the minimum requirement of the software when stepping out in the industry. To introduce the media software to make the learners understand what goes behind the scene and help them choose their stream. To prepare learners skilled enough for independency during project papers in TY sem VI. To help learners work on small scale projects during the academic period
	UHFMMFMC- 104	Ν	 1.To introduce students to the history, evolution and the development of Mass Communication in the world with special reference to India. 2.To study the evolution of Mass Media as an important social institution. 3.To understand the development of Mass Communication models. 4. To develop a critical understanding of Mass Media. 5. To understand the concept of New Media and Media Convergence and its implications.
	UHFMMHP-105	INDIAN & WORLD HISTORICAL PERSPECTIVES AND MEDIA	 To acquaint the student with global happenings which have made historical milestones, changing power equations. To help the student understand the role of media in these events. To understand from global events - Africa in modern times, refugee problems, humanitarian work, human rights violation, Asian perspective and of course, India.
	UHFMMECO- 106	INTRODUCTION TO ECONOMICS & MEDIA	 To introduce the basic concepts of Micro & Macro Economics To provide a basic understanding of the Indian economy is crucial for media students. To sensitise the learners on economic issues relevant to India, To understand the augmenting importance of the media in highlighting and debating economic concerns,
Semester	Course-Code	Course Title	Course Outcome (in bullets)
2nd	UHFMMEC -201	EFFECTIVE COMMUNICATIO N –II- CONTENT WRITING	 To provide students with tools that would help them communicate effectively. The learn to write good content across Media
	UHFMMFC-202	FOUNDATION COURSE –II	 To introduce students to the overview of the Indian Political System & the Political Dynamics in India. To help them understand the constitution of India.
	UHFMMMP-203		 To impart knowledge of the basic concepts and modern trends in psychology. To provide an interdisciplinary study of concepts in the field of media, communication and psychology. To expose students to a multicultural understanding, use, influence and impact of media.

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	UHFMMEL-204	INTRODUCTION TO ENGLISH LITERATURE	 To give exposure to media students to various forms of Literature To make them understand how literature reflects contemporary period To identify relation between Literature and Media
	UHFMMPMM- 205	PRINCIPLES OF MARKETING & MANAGEMENT	 To understand the basic concepts of marketing To understand how advertising & other media are an integral part of marketing To understand marketing in a globalized world To understand the basic principles of management & its application in media & media Organizations
	UHFMMCMM- 206	COMPUTER & MULTIMEDIA - II	 To help learner be media industry ready. To introduce the different media software to make the learner understand what goes behind the scene and help them choose their stream. To prepare learner enough skills to work independently during project papers in TY Sem.VI.
Semester	Course-Code	Course Title	Course Outcome (in bullets)
3rd	BAMMIMS -301	INTRODUCTION TO MEDIA STUDIES	1. To understand Media Theories an their application in today's world.2.To understand theevolution and development of media studies and theory over the years.3. To create a sound foundation for the Media papers
	BAMMICS-302	INTRODUCTION TO CULTURAL STUDIES	 To understand the relevance of cultural studies in Media To understand the evolution and development of cultural studies and theory over the years. To create a sound foundation of Culture in Media papers
	BAMM IFS- 303	INTRODUCTION TO FILM STUDIES	1. To understand the evolution and growth of Cinema as a medium of Mass Communication 2. To study the relevance of Cinema and the different genres in Cinema over the years. 3.A Study of prominent International and Indian films , film directors and their contribution to the film world 4. To understand trends in film making & marketing
	BAMMIPR- 304	IINTRODUCTION TO PUBLIC RELATIONS	 To understand the evolution and growth of Public Relations as a medium of Mass Communication The relevance of Public Relations as a Corporate Communications tool To understand emerging trends in Public Relations in India and Globally
	BAMM ICW- 305	INTRODUCTION TO CREATIVE WRITING	 To understand the concepts and genres in Creative Writing To understand the existing and evolving trends in Creative Writing To understand the application of Creative Writing in Media
	BAMMITH- 306	INTRODUCTION TO THEATRE	 To understand the relevance of theatre as a medium of Mass Communication To understand the evolution and development of Theatre over the years 3. To learn and appreciate the different genres and current trends in Theatre
Semester	Course code	Course Title	Course Outcome (in bullets)
4th	BAMMIAD- 401	INTRODUCTION TO ADVERTISING	trends in Advertising.
	BAMMIJO-402	INTRODUCTION TO JOURNALISM	 1.To understand the concepts ,terminology and nuances of Journalism 2. To understand the evolution and development of Journalism over the years as a medium of mass communication 3. To understand the current and future trends in Journalism

	BAMMMMR-403	INTRODUCTION TO MASS MEDIA RESEARCH	 To understand the concepts ,terminology and basic foundation of Mass media research To understand the evolution and development of Mass media research over the years	
	BAMMRTV-404	INTRODUCTION TO RADIO & TELEVISION		
	BAMMORB-405	ORGANIZATIONA L BEHAVIOUR	 To understand and appreciate the need for a human approach in different organisations. To study the growth and development of organizations and the different theories. To study the impact of hierarchy, groups and leadership qualities for a successful organization 	
	BAMMPHG-406	INTRODUCTION TO PHOTOGRAPHY	 To understand the concepts ,terminology and nuances of Photography To understand the evolution and development of Photography over the years as a medium of mass communication To understand the relevance of Lighting, angles and optimum use of camera. To understand the current and evolving trends in Photography 	
Semester Advertising Specialization	Course code Advertising Specialization	Course Title Advertising Specialization	Course Outcome (in bullets) Advertising Specialization	
5th	BAMMBP -501	MEDIA PLANNING AND BUYING	 1.To develop knowledge of various characteristics of media. 2.To understand procedures, requirements, and techniques of media planning and buying. 3.To learn the various media mix and its implementation 4.To understand budget allocation for a Media plan 	
EXAMMCOB-502 CONSUMER 2.To analyze the role of ma		 To understand role of marketing in influencing consumer behaviour. To analyze the role of marketer& the consumer in advertising. To sensitize the students to the changing trends in consumer behaviour. 		
	BAMMBRB-503	BRAND BUILDING	1.To study the concept of Brands2.To study the process of building brands3.To study its importance to the consumer and advertisers	
2.To learn the process of creating original, strategic, compelling copy for		 To familiarize the students with the concept of copywriting as selling through writing To learn the process of creating original, strategic, compelling copy for various media To learn the rudimentary techniques of advertising - headline and body copywriting. 		
	BAMMACS-505	ADVERTISING IN CONTEMPORARY SOCIETY	 To understand the different environments in countries across the globe To understand Liberalization and its impact on the economy To study contemporary advertising, impact of culture &society 	

	BAMMADD-506	ADVERTISING DESIGN	 To make students understand the process of planning & production of advertisement To highlight the importance of visual communication To provide practical training in the field of advertising 		
Semester Advertising Specialization	Course code Advertising Specialization	Course Title Advertising Specialization	Course Outcome (in bullets) Advertising Specialization		
6th	BAMMMBP -601	ADVERTISING & MARKETING RESEARCH	 To inculcate the analytical abilities and research skills among the students. To understand research methodologies – Qualitative vs Quantitative To discuss the foundations of Research and audience analysis that is imperative to successful advertising. To understand the scope and techniques of Advertising and Marketing research, and their utility 		
	BAMMCOB-602	LEGAL ENVIRONMENT & ADVERTISING ETHICS	 1.To acquaint students to the Legal Environment in contemporary India highlighting the relevance of the same with reference to Advertising media. 2. To emphasise & reiterate the need to have ethical practices in the field of advertising media both in India & internationally. 3.To appreciate the role of advertising in contemporary consumerism, the need for consumer awareness & consumer protection 		
	BAMMFIM-603	FINANCIAL MANAGEMENT	 To provide a brief over view of the basic concepts, goals functions and types of finance available for new and existing business and marketing units. To enable the understanding of the need for financial planning through Budgets and their benefits. To enable students to evaluate the financial implications of marketing decisions through simple analytical tools. 		
	BAMMAGM-604	AGENCY MANAGEMENT	 To acquaint the students with concepts, techniques for developing an effective advertising campaign. To familiarize students with the different aspects of running an ad agency To inculcate competencies to undertake professional work in the field of advertising. 		
	BAMMDDM-605	DIRECT AND DIGITAL MARKETING	 1.Understand digital marketing platform 2.Understand the key goals and stages of digital campaigns 3.Understand the of use key digital marketing tools 4. Learn to develop digital marketing plans 		
	BAMMCOI -606	CONTEMPORARY ISSUES	 To understand and analyse some of the present day environmental, political, economic and social concerns and issues. To highlight the importance of human rights and its implementation in India. To understand the present day problems and challenges and its implications on development. 		

Semester Journalism Specialization	Course code	Course Title				
	Journalism Specialization	Journalism Specialization	Course Outcome (in bullets) Journalise	Journalism Specialization		
	5th	BAMMREP-501	REPORTING	 To enable students to become Reporters, which is supposed to be a prerequisite while entering into the field of Journalism. To make them understand basic ethos of the news and news-gathering. To prepare them to write or present the copy in the format of news. To train them to acquire the skills of news-gathering with traditional as well as modern tools. 		
		BAMMEDT-502	EDITING	1.As an important segment of newspaper production, editing is a vital function. The syllabus lays stres on language skill improvement2.The syllabus encompasses the current trends of digital media as well as writing for e editions of papers.		
BAMMJPO-503 BAMJPO-503 BAMJPO-503			1.To assess the importance of the media vis a vis the public	he role of the media in creating and influencing Public Opinion		
		BAMMFOP-504	FEATURE & OPINION	 Understanding the differences between reporting and feature writing Understanding the relevance of op-ed , columns , reviews in newspapers and magazines Learning the skills for writing features/ opinion/soft stories and of interviewing 		
		BAMMIRJ-505	INDIAN REGIONAL JOURNALISM	 Study of the history and role of Indian press other than in English. Understand the contribution and role of certain publications and stalwarts Study of the regional press and television of today. 		
		BAMMNMM-506	NEWSPAPER & MAGAZINE MAKING	 To study the design, elements of the newspaper and magazine To study space distribution To get exposure to the latest design software To study the process of planning and production of newspaper and magazine 		
Semester	Journalism Specialization	Course code Journalism Specialization	Course Title Journalism Specialization	Course Outcome (in bullets)	Journalism Specialization	
	6th	BAMMPRL-501	PRESS LAWS	1. To understand the Indian legal Hierarchy, The Constitution respect to the Press and other Media Laws	al Laws 2. To study media laws with	
	BAMMBRI-502		BROADCAST JOURNALISM	 To understand the Indian legal Hierarchy, The Constitutional Laws To study media laws with respect to the Press and other Media Laws To introduce Social Media - Convergence, Multimedia, Online Journalism. 		
		BAMMMBJ-503	MAGAZINE AND BUSINESS JOURNALISM	1. To understand the nuances of business journalism and an 2.To study the magazine sector and its specialization	overview of the economy	
		BAMMIGM-504	ISSUES OF GLOBAL MEDIA	 Study the role of media in the 21st Century and the challeng Familiarize students about regional versus global media Highlight social media's relevance in information dissemin 	-	