



**VIVEKANAND EDUCATION SOCIETY'S
College of Arts, Science and Commerce**

(AUTONOMOUS COLLEGE)

NAAC Re-accredited 'A' Grade (2017)

Best College Award (Urban Area: Year 2012-13) University of Mumbai

Recipient of FIST Grant (DST) ** Recipient of STAR College Grant (DBT)**

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Principal

Programme Outcomes (PO), Programme Specific Outcomes (PSO) and Course Outcomes (CO) at VESASC

Aided Section

BA Programme

Program Outcomes (PO):

A learner completing Bachelor of Arts will be able to:

- PO1 Demonstrate analytical skills in applying appropriate arts principles and methodologies to solve a wide range of problems.
- PO2 Design, carry out research and analyze results by accounting for uncertainties in different quantities measured using various social/ scientific instruments.
- PO3 Demonstrate professional behavior of being unbiased, and truthful in all aspects of work as an individual as well as team.
- PO4 Be generally imbued with realization of human values.
- PO5 Develop a sense of social service.
- PO6 Become a responsible and dutiful citizen.
- PO7 Develop a critical temper and creative ability.
- PO8 Acquaint the learner with knowledge of subjects like Economics, Psychology, Sociology, Business and Commerce

BA Economics**PSO:**

On completion of BA Economics program with Economics as a major, learners will be enriched with knowledge and able to:

PSO1 Use Economics concepts and its applications in different areas and establish linkages with other interdisciplinary/ social science subjects

PSO2 Demonstrate competence in problem solving skills in different areas of Economics namely Microeconomics, Macroeconomics, Growth and Development, International Economics, Environmental Economics, Industrial and Labour Economics etc.

PSO3 Builds a sound base for various post graduate courses in Economics and related fields.

PSO4 Understand, relate to and build upon recent developments in different fields of economics.

PSO5 Undertake research in different fields of economics and related disciplines with critical thinking skills and abilities.

PSO6 Students will understand and demonstrate core knowledge in Economics.

Class/ Semester	Paper/ Title	Course Outcome
FY/MAJOR 1	Microeconomics-I	<ul style="list-style-type: none">● Demonstrate an understanding and appreciation of the field of Microeconomics and develop analytical thinking by use of basic mathematical/ illustrative tools.● Demonstrate an understanding, usage and application of basic economic principles to analyze real life situations.● Use the concepts of Market, Competition and Elasticity to understand the dynamics of demand and supply.● Analyze consumer behavior through demand and supply, elasticity, indifference curves and budget line.

FY/MAJOR 1	Microeconomics-II	<ul style="list-style-type: none"> ● Demonstrate and undertake production analysis. ● Demonstrate and undertake cost and revenue analysis. ● Identify and appraise various models of how rent, wages, interest and profit are determined. ● Identify and appraise various models of how markets organization, and how price and output decisions are taken for maximizing profit.
FY/MAJOR 2	Economic Systems-I	<ul style="list-style-type: none"> ● Familiarize the learners about the meaning, functions and evolution of the different Economic systems. ● Get extensive & comprehensive knowledge of comparative economic systems, both theoretical & practical. ● Develop an understanding of different criteria for evaluation of economic systems.
FY/MAJOR 2	Economic Systems-II	<ul style="list-style-type: none"> ● Get a brief knowledge about Capitalism, Socialism & mixed economic systems. ● Enable the learners to evaluate comparative performances of working of the economy - capitalism, socialism and mixed economy. ● Creating awareness about the Indian Mixed economy. ● Make students aware of various new concepts of welfare capitalism, Capitalistic crises, Atmanirvar Bharat, etc. ● Understand the complex economic systems of important countries like India, UK, the former USSR, etc.
FY/MINOR/ Sem II	Introductory Economics	<ul style="list-style-type: none"> ● Demonstrate an understanding and appreciation of economics and basic economic concepts. ● Demonstrate usage and application of basic economic concepts to real life. ● Understand the reasoning process that Economists apply to understand the social world around us. ● Deploy the economic reasoning to the urgent issues humanity faces.
FY/OE/ Sem I	Introduction to Stock Markets-I	<ul style="list-style-type: none"> ● Understand Scope and Importance financial markets. ● Understand the functions and operations of the

		<p>stock market</p> <ul style="list-style-type: none"> ● Understand the Regulation of stock market in India. ● Demonstrate an understanding, usage and application of market trading.
FY/VSC/1	Fundamentals of Investment-I	<p>After completion of this course learner will be able to:</p> <ul style="list-style-type: none"> ● Understand Scope and Importance of Investment analysis. ● Demonstrate an understanding, usage and application of investment decisions. ● Understand the differences between Investment, Speculation, Investment and Gambling. ● Understand the non-marketable investment instruments.
FY/VSC/2	Fundamentals of Investment-II	<ul style="list-style-type: none"> ● Understand Scope and Importance of Marketable assets. ● Demonstrate an understanding, usage of money market instruments. ● Understand the differences between bonds , debenture and equity markets. ● Understand the working of Mutual funds and financial derivatives.
FY/SEC/1	Basic Mathematical and Illustrative Tools for Economics-I	<ul style="list-style-type: none"> ● Understand the basic mathematical tools, formulae and expressions like set theory, relations and functions, etc which will enhance the learner's capacity to understand and interpret economic theory. ● Equip the students with exposition of economic problems with formal presentation algebraically and offer solution techniques to find equilibrium analysis ● Demonstrate an understanding, usage and application of various tools in economic problems. These tools are necessary for anyone seeking employment as an analyst in the corporate and policy framing world.

FY/SEC/2	Basic Mathematical and Illustrative Tools for Economics-II	<ul style="list-style-type: none"> ● Build an ability to explain the economic applications of differentiation, and use it to understand economic concepts such as elasticity, marginal cost, etc. ● Interpret the algebraic solution of economic concepts. ● Facilitate the ability of students to demonstrate the economic applications of differentiation, and use it to formulate economic problems. ● Equip the students with the idea of derivatives and integration along with its application in economic theory.
SY/MAJOR 1/SEM 3	Macroeconomics -I	<ul style="list-style-type: none"> ● Provide a clear explanation of many aspects of aggregate economic variables to inspire a consistent way of thinking about key macroeconomic phenomena. ● Have a better understanding of Supply of money & demand for money, relationship between Money & Prices and the various theories related to that. ● Make the students understand the banking systems in India like commercial banks and central bank; its functions, etc.
SY/MAJOR 1/SEM 4	Macroeconomics -II	<ul style="list-style-type: none"> ● Understand the macroeconomic terms and concepts. ● Understand the problems of inflation and hyperinflation in an Economy and Identify the causes, consequences and tools to control fluctuations in economic activity. ● Creating awareness about the Objectives and Instruments of Monetary Policy and Fiscal Policy. ● Be oriented with recent developments in macroeconomic literature (Goods Market and Money Market and simultaneous equilibrium in the economy). ● Make the students understand the Foreign Exchange Market and determination of Exchange Rate and types of Exchange Rate as well as the topic of Balance of payments.

SY//MAJOR 2/SEM3	Public Finance	<ul style="list-style-type: none"> ● Understand the importance of government policy from the point of economic efficiency and equity. ● Understand how the role and functions of the government have been changing through time. ● Be oriented with the use of a package of policies which require tax systems, expenditure programmes, raising of debt, issues of deficit etc. ● Be able to critically analyze/ make suggestions for the public budget through issues of taxation, expenditure, debt and concepts of deficit.
SY//MAJOR 2/SEM4	Indian Economy	<ul style="list-style-type: none"> ● Understand the sectoral composition of the Indian Economy. ● Understand the problems and prospects of the different sectors of the Indian Economy. ● Be oriented with the broad features of different sectors and the recent developments in the economy. ● Be able to critically analyze/ make suggestions for the various sectors of the Indian Economy.
SY/MINOR/3	Foundations of Microeconomic Theory-I	<ul style="list-style-type: none"> ● Demonstrate an understanding and appreciation of the field of Microeconomics and develop analytical thinking by use of basic illustrative tools. ● Demonstrate an understanding, usage and application of basic economic principles to analyze real life situations. ● Use the concepts of Market, Competition and Elasticity to understand the dynamics of demand and supply. ● Analyze consumer behavior through demand and supply, elasticity, indifference curves and budget lines.
SY/MINOR/4	Foundations of Microeconomic Theory-II	<ul style="list-style-type: none"> ● Demonstrate and undertake production analysis. ● Demonstrate and undertake cost and revenue analysis. ● Identify and appraise basic models of how rent, wages, interest and profit are determined. ● Identify and appraise basic models of how

		markets organization, and how price and output decisions are taken for maximizing profit.
SY/OE/3 and 4	Basics of Portfolio Management	<ul style="list-style-type: none"> ● To understand the principles of portfolio management and investment analysis. ● Students will learn how to construct and manage investment portfolios effectively to achieve financial objectives. ● To learn techniques for asset allocation and portfolio construction. ● To learn techniques for fundamental and technical analysis.
SY/SEC/II	Basic Mathematical and Illustrative Tools for Economics-III	<ul style="list-style-type: none"> ● Understand and apply various mathematical tools used in economic analysis. ● Learn in detail about functions, matrices, differentiation, and integration. ● Handle complicated real life economics problems using mathematical tools learned from this course.
TY/MAJOR 1/SEM 5	Microeconomics-III	<ul style="list-style-type: none"> ● Students will get knowledge on market structures• ● Students will develop an understanding on the welfare economics and economics of information.
TY/MAJOR 1/SEM 6	Macroeconomics-III	<ul style="list-style-type: none"> ● Students will become aware about Post Keynesian Synthesis and understand various aspects of Trade Cycles. ● Students will be able to describe the contemporary Exchange Rate Regimes and International Monetary System.
TY/MAJOR 2/SEM 5	Industrial and Labour Economics-I Economics of Growth and	<ul style="list-style-type: none"> ● Learners will study the different contemporary issues of the industrial sector. ● Learners will know the problems of industries. ● Learners will get an idea about productivity. ● Learners will get acquainted with new policies and their impact on industries.
TY/MAJOR 2/SEM 6	Industrial and Labour Economics-II	<ul style="list-style-type: none"> ● Learners become aware about different problems and policies of labour. ● Learners will get informed about trade unions and industrial relations in the contemporary

		<p>world.</p> <ul style="list-style-type: none"> ● Learners will know about the different policies of labour welfare.
TY/MAJOR 3/SEM 6	Economics of Growth and Development	<ul style="list-style-type: none"> ● Students will be able to apply and analyze issues in the development process. ● Students will be able to identify the issues related to Growth and Development ● Students will be able to understand the policy options. ● They will be able to analyze the measures taken for the development of an economy.
TY/Elective/SEM 5	International Economics	<ul style="list-style-type: none"> ● Upon completion of the course the students will be well acquainted with the fundamentals of International Economics. ● They will come across various types of exchange rate systems and related developments and emergence of contemporary exchange rate systems. ● It enables them in-depth study of foreign exchange market. ● Students will be able to understand the trade theories and determinants of trade which helps them to analyze the international trade policies. ● Students will be able to understand the role of various international institutions and trade blocks and their approaches in framing the policies for trade.
TY/Elective/SEM 6	Environmental Economics	<ul style="list-style-type: none"> ● On the completion of this course, the student will have a good understanding of contemporary environmental issues. ● The student will also be able to relate the environmental issues to economic development. ● The learner will be equipped to understand the methodologies and tools of valuing the environment. ● In the light of international environmental agreements, the learners will be able to understand the global approaches and policies adopted by India to deal with the environmental issues.
TY/MINOR/5	Foundations of Macroeconomic Theory-I	<ul style="list-style-type: none"> ● Provide a clear explanation of many aspects of aggregate economic variables to inspire a consistent way of thinking about key macroeconomic phenomena.

		<ul style="list-style-type: none"> ● Have a better understanding of Supply of money & demand for money, relationship between Money & Prices and the various theories related to that. ● Make the students understand the banking systems in India like commercial banks and central bank; its functions, etc
TY/MINOR/6	Foundations of Macroeconomic Theory-II	<ul style="list-style-type: none"> ● Understand the macroeconomic terms and concepts. ● Understand the problems of inflation and hyperinflation in an Economy and Identify the causes, consequences and tools to control fluctuations in economic activity. ● Creating awareness about the Objectives and Instruments of Monetary Policy and Fiscal Policy. ● Be oriented with recent developments in macroeconomic literature (Goods Market and Money Market and simultaneous equilibrium in the economy). ● Make the students understand the Foreign Exchange Market and determination of Exchange Rate and types of Exchange Rate as well as the topic of Balance of payments.
TY/VSC/5	Basic Statistical Tools for Economics	<ul style="list-style-type: none"> ● Understand and inculcate research in Economics. ● Help in formulation of problems in social science research. ● Understand data collection and presentation for quality research in social sciences. ● Get assimilated to the research culture in Economics through application of statistics. ● Understand the concept of measures of central tendency, dispersion, correlation, regression and index number with its use and applications. ● Help in formulation of hypotheses and its testing in social science research. ● Understand the writing of social science research reports with its various types, organization and styles.

BA Eco-Commerce

PSO-1 Understand the concepts of Business, Service Sector, Accountancy, Financial Management, Marketing and apply in the current business scenario.

PSO-2 Use Economics concepts and its applications in different areas and establish linkages with other interdisciplinary/ social science subjects

PSO-3 Acquire knowledge about Principles of Management, Human Resource Management and International business exploring different career opportunities in the field of Commerce.

PSO-4 Demonstrate competence in problem solving skills in different areas of Economics namely Microeconomics, Macroeconomics, Growth and Development, International Economics, Environmental Economics, Industrial and Labour Economics etc

PSO-5 Understand, relate to and build upon recent developments in different fields of economics and commerce.

PSO-6 Demonstrate competencies in Excel and data analysis using Excel

PSO-7 Acquire vocational skills to build a sound base for various career options like event management, travel and tourism, securities market, advertising, and branding.

PSO-8 Gain proficiency in communication skills in English

PSO-9 Acquaint learners with knowledge of Environmental Science and Indian Constitution

Class/ Semester	Paper/ Title	Course Outcome
FY/MAJOR 1	Commerce I - Introduction to Business	<ul style="list-style-type: none">● Understand the concepts of business, trade and industry.● Acquire knowledge about a number of private sector organisations and their working.● Acquaint the learner with the operations of public sector organisations● Understand the basics of international organisations to the learner.
FY/VSC/1	Event Management (VSC)	<ul style="list-style-type: none">● Get acquainted with the essentials of Event Management.● Acquire knowledge about the various technical aspects involved in event management and develop organizational skills.● Gain avenues of employment opportunities in the field of event management or be self-employed.
FY/OE/ Sem I & II	Financial Literacy	<ul style="list-style-type: none">● Understand various concepts in Personal Finance.● Acquire knowledge of different investment avenues.● Acquaint the learner with the management of

		<p>loans and debts.</p> <ul style="list-style-type: none"> • Understand the importance and schemes of retirement planning.
FY/MAJOR/1	Commerce II - Introduction to Service Secor	<ul style="list-style-type: none"> • Understand the concept of a bank, its types and the services provided with the advancement of technology. • Acquaint themselves with the understanding of the concept of insurance and types of insurance policies. • Gain knowledge about the channels of distribution, types of retailing and trends in the retail sector in recent years. • Acquire knowledge about the business environment, types and environmental factors affecting business.
FY/VSC/1	E-Commerce	<ul style="list-style-type: none"> • To familiarize the students with basic concepts of E-commerce and Electronic Payment System. • Understand the evolution, functions, models and career opportunities in e-commerce. • Identify and Comprehend the types of electronic payment system and security issues of e-commerce.
FY/SEC/1	Basics of Mutual Funds	<ul style="list-style-type: none"> • Understand the concepts, participants and types of Mutual funds • Identify and understand various operations of Mutual funds
FY/MINOR/1	Introduction to Commerce	<ul style="list-style-type: none"> • Understand the concept, nature of business and commerce • Identify and understand different types of business organizations.
SY/MAJOR 1/SEM 3	Commerce III Introduction to Management	<ul style="list-style-type: none"> • Learn practical knowledge of Planning, Organising, Implementing, staffing, coordinating, Controlling, Motivating, and other areas of Management • Develop Human skills and conceptual skills as per industry requirements as an understanding of various functions of Management

		<ul style="list-style-type: none"> • Understand basic management skills useful in industries as well as how business organizations work
SY/MAJOR 1/SEM 3	Commerce IV -Introduction to Marketing	<ul style="list-style-type: none"> • Understand concept and evolution of marketing. • Acquire knowledge about market research, marketing information system,market segmentation and changing consumer preferences. • Gain insight into the concept of marketing mix,product, place,price and promotion mix strategies. • Get familiarized with the key dimensions and recent trends in marketing.
SY/VSC/2	Travel and Tourism (VSC)	<ul style="list-style-type: none"> • Learn the concept of tourism with its various types. • Understand growth and status of tourism in India • Get acquainted with working of players in tourism industry • Gain awareness about the concept and need for sustainable tourism
SY/MINOR/1	Commerce III - Principles of Management	<ul style="list-style-type: none"> • Acquire practical knowledge of Planning, Organising, Implementing, staffing, coordinating, Controlling, Motivating, and other areas of Management • Develop Human skills and conceptual skills as per industry requirements as an understanding of various functions of Management. • Understand basic management skills useful in industries as well as how business organizations work

SY/MAJOR 2/SEM 4	Commerce V – Financial Management	<ul style="list-style-type: none"> ● Gain understanding of basics of financial management ● Acquaint about capital structure and different aspects of it ● Aware about various long term sources of finance ● Have knowledge of Financial Market and its components ● Aware about recent trends in Finance
SY/MAJOR 2/SEM 4	Commerce VI - Advertising	<ul style="list-style-type: none"> ● Comprehend the practical aspects and techniques of advertising. ● Evaluate the ethical, economic, legal and cultural dimensions of advertising in a global society. ● Understand and classify different types of advertisements on the basis of area, media, audience and functions. ● Analyze the elements of a brand and understand how the brand-building process contributes to the success of products or services.
SY/OE/ Sem III	Entrepreneurship Management	<ul style="list-style-type: none"> ● Understand the concepts, types and skills required to be a successful entrepreneur and support available for Entrepreneurship development ● Acquaint students with importance of innovation in entrepreneurship ● Gain knowledge about developing a business idea and elements of a Business Plan.
TY/MAJOR 1/SEM 5	Introduction to Management	<ul style="list-style-type: none"> ● Understand the basic concepts of management, its functions and principles ● Acquaint with the knowledge of aspects of planning and decision making

		<ul style="list-style-type: none"> ● Have understanding of function of organising including the concepts of span of control, delegation of authority and decentralisation
TY/MAJOR 2/SEM 5	Human Resource Management	<ul style="list-style-type: none"> ● Understand and apply the theory, concept of HRM in their job place ● Acquire knowledge relating to the Jobs and Careers in HRM will encourage students to take up promising jobs in HRM field
TY/MAJOR 1/SEM 6	Introduction to Management	<ul style="list-style-type: none"> ● Understand the basic concepts in production management and the systems followed ● The learner will be well aware about inventory management and its role ● Acquaint with the knowledge of aspects of quality management and tools used for it
TY/MAJOR 2/SEM 6	Human Resource Management	<ul style="list-style-type: none"> ● Understand and apply the theory, concept of HRM in their job place ● Acquire knowledge relating to the Jobs and Careers in HRM will encourage students to take up promising jobs in HRM field
TY/Elective/SEM 5	Export Management	<ul style="list-style-type: none"> ● Understand the difference between the Domestic Market & Export Market ● Identify the factors that influence Export Management & the various risks involved in the overseas market. ● Evaluate the composition and direction of India's export trade since 2015. ● Examine the various types of Tariff & Non Tariff Barriers, the positives & negatives of WTO & Overseas Market selection process. ● Analyze the Foreign Trade Policy 2023 ● understands the Role of DGFT, Benefits to status Holders and concepts relating to EOU/SEZ's/ AEZ's ● Evaluate the technicalities of MDA/MAI/ ASIDE ● Understand the institutional assistance in promoting export trade.

		<ul style="list-style-type: none"> ● Evaluate the schemes available to Indian exporters such as EPCG and Duty Drawback
TY/Elective/SEM 6	Export Management	<ul style="list-style-type: none"> ● Understand decision making w.r.t. Product Planning, Branding, Labeling & Pricing. ● Analyze the details of INCOTerms. ● Evaluate the various aspects related to Direct & Indirect Channels of distribution in exports ● Understand the Logistics in Export Marketing and various sales promotion techniques important in foreign markets. ● Discuss the procedure related to pre & post shipment finance, Evaluate the role of Export Marketing Financial Institutions like Commercial Banks, SIDBI & ECGC. ● Understand the various methods of payments available in export management ● Analyze the Customs House Clearance procedure & learn about various Export Documents.

BA Psychology

PSO:

On completion of BA Psychology program, learners will be enriched with knowledge and be able to

PSO1 Develop an understanding of fundamental concepts in Psychology.

PSO2 Able to apply principles of psychology to everyday life.

PSO3 Research human behaviour using psychological principles.

PSO4 Able to statistically analyze and comprehend complex psychological phenomenon empirically.

Class/ Semester	Paper/ Title	Course Outcome
FY/Major Course I/ Sem I	FUNDAMENTALS OF PSYCHOLOGY -PART I	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1.Explain the nature, scope, methods and branches of various fields of Psychology 2.Relate the nature of consciousness and the underlying theoretical interpretations and describe the various stages of sleep & dreams 3.Develop insight into human development and biological basis of human behaviour
FY/Major Course II/ Sem I	HEALTH PSYCHOLOGY- I	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Develop an understanding of what is health psychology and how it emerged as a field of study. 2. Understand the different health behaviours and how health behaviours can be changed 3. Know, practice and apply health promoting behaviours.
FY/VSC/ Sem I	METHODS STUDYING PSYCHOLOGY-I	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1.Know the different methods in psychological research. 2.Develop an understanding of conducting research

FY/SEC/ Sem I	STATISTICS IN PSYCHOLOGY-I	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Understand the use of descriptive methods of data analysis. 2. Represent data graphically 3. Calculate the percentiles and percentile ranks from given data.
FY/OE/ Sem I	UNDERSTANDING STRESS	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Understand the nature of stress and types of stressors. 2. Understand the different theories that explain stress 3. Methods of coping with stress typically used
FY/IKS/ Sem I	INTRODUCTION TO INDIAN PSYCHOLOGY	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Understand and explain various concepts of Indian Psychology 2. Illustrate knowledge for self-development. 3. Illustrate their understanding in relation Personality and states of consciousness 4. Outline the fundamental concept of Indian Psychology in comparison with Western Psychology concepts
FY/Major Course I/ Sem II	FUNDAMENTALS OF PSYCHOLOGY -PART II	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Explain the basic principles guiding human behaviour 2. Outline and compare the nature, principles and the

		<p>various theories of learning ,motivation and emotions</p> <ol style="list-style-type: none"> 3. Summarize and compare the various functions and memory processes involved in memory and forgetting 4. Explain various perspectives in understanding human personality
FY/Major Course II/ Sem II	HEALTH PSYCHOLOGY- II	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Understand how chronic and terminal illnesses impact people. 2. Understand the different techniques to cope with and manage health outcomes through psychological interventions 3. Relationship between Psychological processes and health conditions like Heart ailments, diatebetes, stroke, cancer.
FY/Minor Course -I/ Sem II	GENERAL PSYCHOLOGY	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Explain the nature of Psychology and various fields of Psychology 2. Relate the nature of consciousness and the underlying theoretical interpretations 3. Develop insight on learning and memory process
FY/VSC/ Sem II	METHODS OF STUDYING PSYCHOLOGY-II	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Develop an understanding of methodologies of data collection using survey and experimentation methods. 2. Collect data using the above mentioned methods and know the steps involved using experiential learning
FY/SEC/ Sem II	STATISTICS IN PSYCHOLOGY-II	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Understand the use of descriptive methods of data analysis. 2. Be equipped with the knowledge about the concepts in Statistics and the various measures of Descriptive Statistics - their characteristics, uses, applications and

		methods of calculation.
FY/OE II/ Sem II	UNDERSTANDING STRESS	After completion of this course learner will be able to: 1. Understand the nature of stress and types of stressors. 2. Understand the different theories that explain stress 3. Methods of coping with stress typically used
SY/Paper II/Sem III & IV	Social Psychology - Paper II: Part I and Part II	Objectives: - 1. To help students in building knowledge of the basic concepts and modern trends in Social Psychology. 2. To foster interest in Social Psychology as a field of study and research among students. 3. To make the students aware of the applications of the various concepts in Social Psychology in the Indian context
SY/Paper III/Sem III & IV	Developmental Psychology: A Focus on Adolescent and Adult Development Part I and Part II	Objectives: - 1. To help students in building knowledge and understanding of the basic concepts, principles, perspectives and modern trends in Developmental Psychology 2. To foster interest in Developmental Psychology as a field of study and research among students. 3. To make the students aware of the implications and applications of the various concepts, principles and theories of Developmental Psychology in daily life in the Indian context
SY/Applied Component (Option A)/Sem III & IV	Health Psychology Part I and Part II	Objectives: - 1. To help students in building knowledge of the basic concepts and modern trends in Health Psychology. 2. To foster interest in Health Psychology as a field of study and research among students. 3. To make the students aware of the practical applications of the various concepts in Health Psychology in the Indian context.

<p>TY/Paper V & VI IV/Sem V & VI</p>	<p>Psychological Testing and Statistics Parts I and Part II</p>	<p>Learning Outcomes</p> <p>a) The learner will -</p> <ol style="list-style-type: none"> 1. develop knowledge and understanding of the nature, uses, technical features, and the process of construction of psychological tests. 2. develop awareness about measurement of intelligence and assessment of personality. 3. be equipped with the knowledge about the concepts in Statistics and the various measures of <p>Descriptive Statistics - their characteristics, uses, applications and methods of calculation.</p> <p>b) The learner will build a firm foundation, which will be helpful for advanced learning of Psychological Testing, Assessment and Statistics in postgraduate studies.</p>
<p>TY/Paper V & VI V/Sem V & VI</p>	<p>Abnormal Psychology Parts I and Part II</p>	<p>a). The learner will</p> <ol style="list-style-type: none"> 1. Develop an understanding of the basic concepts and theories of Abnormal Psychology. 2. develop insight into various forms of Psychological Disorders – their symptoms, causes, along with the process of diagnosis and treatment. 3. become more sensitised and equipped to deal with various issues related to Mental Health in society. <p>b). The learner will build foundational knowledge of Abnormal Psychology which will help the learner for higher education and also to pursue a professional career in Clinical Psychology.</p>
<p>TY/Paper V & VI VI/Sem V & VI</p>	<p>Industrial/Organizational Psychology</p>	<p>1. Learners will be able to</p> <p>a) describe the scope of I/O Psychology and careers related to I/O Psychology.</p> <p>b) list and describe the basic concepts of I/O Psychology.</p>

		<p>c) critically discuss issues related to I/O Psychology.</p> <p>2. Learners will have built a sufficient foundation in I/O Psychology to pursue postgraduate studies and/or careers related to I/O Psychology.</p>
TY/Paper VII/Sem V & VI	Cognitive Psychology Parts I and Part II	<p>a). The learner will</p> <ol style="list-style-type: none"> 1. develop understanding of the basic concepts and theories of Cognitive Psychology. 2. develop insight into theoretical aspects of cognitive processes <p>b). The learner will build foundational knowledge of Cognitive Psychology which will help the learner for higher education and also to pursue a professional career in any of the several areas of Psychology.</p>
TY/Paper VIII/Sem V & VI	Practicals in Cognitive processes and psychological Testing	<p>After studying this paper, students will able to...</p> <ol style="list-style-type: none"> 1. Translate theoretical concepts into application-based experiments. 2. Conduct experiments following standardized procedure. 3. Apply statistical tests and analyze the data collected. 4. Write reports on research conducted using APA format. 5. Make sense of the research papers on any given topic
TY/Paper IX/Major Elective:Applied Component /Sem V & VI	Counselling Psychology: Part I and Part II	<p>Student will able to...</p> <ol style="list-style-type: none"> 1. identify unique features of Counselling as a profession. 2. understand the process to be followed while helping people and roles and responsibilities of the counselor. 3. identify key ingredients necessary for successful helping. 4. understand micro-skills required to practice Counselling.

		<p>5. understand theoretical foundations underlying different counselling and psychotherapeutic approaches and critically evaluate the strengths, limitations associated with each of them.</p> <p>6. feel motivated to seek further training to practice Counselling.</p>
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BA Sociology
PSO:
On completion of BA Sociology program, learners will be enriched with knowledge and be able to
PSO1 Understand the emergence of Sociology and its relationship with other sciences
PSO2 Define the nature and importance of Social Institutions.
PSO3 Analyze the influence of Culture on society.
PSO4 Critically examine the process of Socialization in the development of individuals in the society.

Class/ Semester	Paper/ Semester	Title	Course Outcome
TY/Paper V	IV/Sem V	Theoretical sociology	<p>1. Students should be able to explain social problems and issues in lieu of their Understanding of sociological theory</p> <p>2. Theoretical sociological knowledge will help students to critically evaluate.</p> <p>3. Help students to make theoretically- informed recommendations to address social problems.</p>
TY/Paper VI	IV/Sem VI	Anthropological thought	<p>1. Students will have a grounded understanding of the basics of Anthropology, its different branches and scope.</p> <p>2. They will develop the ability to use the knowledge of Anthropology in tackling Anthropology related problems like ethnocentrism</p> <p>3. The course will help students to have generic skills of qualitative research used in Anthropology</p>
TY/Paper V	V/Sem V	Sociology of agrarian society	<p>1. Helps to think critically about issues and topics affecting agrarian society</p> <p>2. Enlightens the students about the different problems and possible solutions to agrarian issues.</p>

		3. Analyses the transformations in agrarian society.
TY/Paper V/Sem VI	Development and change in agrarian society	1. Helps to think critically about issues and topics affecting agrarian society 2. Enlightens the students about the different problems and possible solutions to agrarian issues. 3. Analyses the transformations in agrarian society
TY/Paper VII/Sem V	Sociology of human resource development	1. To create an awareness of the various issues involved in the development of human resources with particular emphasis on social and cultural factors. 2. To familiarise students and the recruitment and selection process 3. To understand the importance of network and building an image of the company.
TY/Paper VII/Sem VI	Sociology of organizations	1. To provide a comprehensive framework for the development of human resources in the organization and understand the vision of organisational development 2. To create and understanding on group dynamics and organisational socialisation 3. To create leadership qualities and handle group dynamics
TY/Paper VI(Applied component)/Sem V	Sociology of gender	1. An understanding of the debates that have shaped the discourse on gender 2. An enhanced understanding of perspectives both global and local.
TY/Paper VI(Applied component)/Sem VI	Gender and society in India: Contemporary debates and emerging issues	1. Enable an understanding of violence as a structural issue deeply located within caste, class and ethnic hierarchies 2. An understanding of laws for those in gender marginal locations and their implementation
TY/Paper IX(Applied component)/Sem V	Quantitative social research	1. To appreciate the nature and significance of social research 2. To learn about the basic tools and techniques in social research 3. To equip themselves to conduct and analyse simple research projects.
TY/Paper IX(Applied component)/Sem VI	Qualitative social research	1. To appreciate the nature and operations of qualitative social research 2. To learn about the basic tools and techniques in qualitative social research 3. To equip themselves to conduct and interpret simple research projects

TY/Paper XI/Sem V	Urban sociology	<ol style="list-style-type: none"> 1. Students will be able to explain the various concepts nature and dynamics of urbanization in India. 2. Students will be able to reflect on theoretical perspectives in urban Sociology. 3. Students will reflect on India's experience on urbanization. 4. Students will be in a position to analyze the urban problems and discuss various solutions.
TY/Paper XI/Sem VI	Urbanization in India: Issues and concerns	<ol style="list-style-type: none"> 1. Students will reflect on India's experience on urbanization. 2. Students will be in a position to analyze the urban problems and discuss various solutions.
SY/MAJOR 1/SEM 3	Indian society: Structure and change	<ol style="list-style-type: none"> 1. After learning this course students will understand complex social structure of Indian society 2. Students shall develop understanding coexistence of different groups and communities
SY/MAJOR 1/SEM 4	Sociology of development	<ol style="list-style-type: none"> 1. Students shall be able to understand what is economic development and social development. 2. Students will understand development in Indian Context.
SY/MAJOR 2/SEM 3	Emerging issues and concerns in Contemporary Indian society	<ol style="list-style-type: none"> 1. The demographic variable that influences the structure of Society. 2. The environmental concerns of society today. 3. Sensitization and create awareness with regards to health care system 4. Critically evaluate the meaning of justice and the role of the criminal justice system of the country.
SY/MAJOR 2/SEM 4	Emerging fields in sociological studies	<ol style="list-style-type: none"> 1. To create awareness among the students about various media challenges 2. To critically analyze the new trends in Education. 3. To provide information to the students about the laws and policies of urban governance. 4. To understand the growing numbers and concerns of the ageing community.

SY/MINOR/SEM 3	Contemporary Challenges in Indian society-I & II	<ol style="list-style-type: none"> 1. Appreciate diversity and inclusivity. 2. Recognize social justice and human rights. 3. Value critical thinking and intellectual curiosity. 4. Develop empathy and understanding.
SY/MINOR/SEM 4	Contemporary Challenges in Indian society- II	<ol style="list-style-type: none"> 1. Appreciate diversity and inclusivity. 2. Recognize social justice and human rights. 3. Value critical thinking and intellectual curiosity. 4. Develop empathy and understanding.
SY/VSC/SEM 3	Religion and society-I	<ol style="list-style-type: none"> 1. Understand the history and genesis of religion 2. Understand the way religion exerts control as a strong agent of socialization 3. Think critically about the practice and power of religion
SY/SEC/SEM 4	Skills social research III	<ol style="list-style-type: none"> 1.To appreciate the nature and significance of social research 2.To learn about the basic tools and techniques in social research 3.To equip themselves to conduct and analyze simple research projects
SY/O.E/SEM 3 & 4	Popular Culture	<ol style="list-style-type: none"> 1. Recognition of cultural diversity and Assimilation 2. Understanding of social inequality and power dynamics 3. Understanding of how pop culture reflects and shapes social values
FY/MAJOR 1/SEM 1	Foundations of sociology	<ol style="list-style-type: none"> 1. Understand the history and development of the discipline 2. Introduced to the broad three perspectives in Sociology 3. Understand functional aspect of Social Institutions 4. Trace the evolution of culture to present days societies 5. Introduced to new concepts of culture and induce tolerance towards others 6. Made aware about the concept of socialization and its consequences

FY/MAJOR 1/SEM 2	Fundamental Sociology	Of	<ol style="list-style-type: none"> 1. Understand the context and theoretical approaches that influences Social Interaction 2. Understand the evolutionary processes and the organizing principles of Social Stratification 3. Understand the nature and forms of deviant behaviour and the methods of Social Control 4. Identify different forms of collective behaviour. 5. Critically analyze the impact of collective behaviour on the functions of society.
FY/MAJOR 2/SEM 1	Gender and Society-I		<ol style="list-style-type: none"> 1. Understand the history and development of the discipline 2. Understand the way gender & sex are different 3. Understand the way gender is beyond a binary 4. Analyse the way gender is performed in society
FY/MAJOR 2/SEM 2	Gender Society-II	and	<ol style="list-style-type: none"> 1. Critically analyze the emergence of new social institutions like the virtual societies and same sex unions 2. Trace the evolution of culture to present days societies 3. Introduced to new concepts of culture and induce tolerance towards others 4. Made aware about the concept of socialization and its consequences
FY/VSC/SEM 1	Religion Society-I	and	<ol style="list-style-type: none"> 1. Understand the history and genesis of religion 2. Understand the way religion exerts control as a strong agent of socialization 3. Think critically about the practice and power of religion
FY/VSC/SEM 2	Religion Society-II	and	<ol style="list-style-type: none"> 1. Understand the history and genesis of religion 2. Understand the way religion exerts control as a strong agent of socialization 3. Think critically about the practice and power of religion
FY/SEC/SEM 1	Basic skills in social research-I		<ol style="list-style-type: none"> 1. To appreciate the nature and significance of social research 2. To learn about the basic tools and techniques in social research

FY/SEC/SEM 2	Basic skills in social research-II	1. To appreciate the nature and operations of qualitative social research 2. To learn about the basic tools and techniques in qualitative social research
FY/MINOR/SEM 2	An Invitation to Sociology	1. Understand the basic ways society functions 2. Understand the themes of deviant behaviour
FY/O.E/SEM 1 & 2	Sociology of Cinema	1. Understand the history and development of media 2. Understand the way media reflects dominant culture 3. Critically analyse the way cinema is hegemonic in nature

BA Optional Accountancy Papers

Class/ Semester	Paper/ Title	Course Outcome

BSc Programme

PO: Upon completion of **B.Sc. Programme**, the graduates will have:

- PO1. The required analytical skills to apply appropriate scientific principles and methodologies to solve real world problems
- PO2. The ability to design, carry out experiments and analyze results while accounting for uncertainties in different quantities measured using various scientific instruments.
- PO3. The ability to communicate scientific concepts, experimental results and analytical arguments clearly and concisely, both verbally and in writing.
- PO4. Understand the need for scientific solutions to problems of the environment and society, keeping in mind their sustainable development.
- PO5. Imbibe ethical, moral and social values in personal and social life leading to a cultured and civilized personality.

BSc Physics**PSO:**

On completion of B.Sc. Physics program, learners will be enriched with knowledge and be able to

- 1) Understand applications of physics concepts in different areas.
- 2) Establish linkages between different areas of physics and other interdisciplinary science subjects.
- 3) Demonstrate competence in problem solving skills in different areas of Physics namely Classical Mechanics, Quantum Mechanics, Modern Physics, Electrodynamics, Optics, Thermodynamics, Crystallography and Materials Science.
- 4) Use analytical skills using appropriate physical principles and methodologies to solve a wide range of problems.
- 5) Design and carry out experiments by using appropriate scientific instruments.

Class/ Semester	Paper/ Title	Course Outcome
FY/ Major /Paper-I /SEM I,	Mechanics and Thermodynamics	On successful completion of this course students will be able to: <ul style="list-style-type: none">● Understand and apply Newton's laws in describing the motion of simple systems.● Apply the free body diagrams to analyze the forces on the object.● Use the concepts of friction and the concepts of work and energy, fluid mechanics and be able to perform calculations using them.● Understand the concepts of oscillations and waves.● Demonstrate quantitative problem-solving skills in all the topics covered● Analyze resultant of parallel and perpendicular SHMs● Understand and apply zeroth law and first of thermodynamics in different situations.● Understand and differentiate different processes of Thermodynamics and calculate work done.
FY/ Major Paper-II /SEM I	Optics and Material Science	On successful completion of this course students will be able to: <ul style="list-style-type: none">● Understand the concept of light refraction through thin lens, Lens combination.

		<ul style="list-style-type: none"> ● understand the basics of Aberrations and how to remove it and its applications. ● Understand importance of reverberation, acoustics and ways to improve ● Understand properties of LASER, principle and applications ● Understand different types optical fibre and its use in communication applications ● Understand role of materials in different applications and optimized properties required ● Differentiate uses of materials based on their properties ● Understand various types and application of conducting, Dielectric, magnetic materials ● Demonstrate problem solving abilities in topics of the course
FY/Practicals of Major Paper I & II/ SEM I	Practical based on Paper 1 and 2	<p>On successful completion of this course students will be able to:</p> <ul style="list-style-type: none"> ● Use instruments such as Vernier calliper, Screw gauge, multimeter confidently. ● Demonstrate skills of calculating least count of instruments and use it appropriately. ● Demonstrate careful conduct of Lab experiments. ● Demonstrate appropriate use of multimeter in measuring various quantities
FY/VSC/SEM I	CPP programming	<p>On successful completion of this course students will be able to:</p> <ul style="list-style-type: none"> ● Construct algorithm and flowchart for a given task ● Design program using appropriate instructions in C++ ● Compile and execute programs in C++
FY/OE/SEM I&II	Life Outside Earth	<ul style="list-style-type: none"> ● Gain knowledge of the various tools and techniques employed in microgravity research. ● Understand how altering gravity affects life and how these can be applied in industry. ● Understand the physical and chemical processes underlying biological mechanisms. ● Gain knowledge of the techniques employed in exoplanet detection ● Gain knowledge of the techniques employed in the search for extraterrestrial life and

		extraterrestrial intelligence
FY/ Major Paper-I /SEM II	Electricity and Electronics	<ul style="list-style-type: none"> • Understand working of LR, CR and LCR circuits • Analyze working of AC bridges and use it in different applications • Apply different circuit theorem in analysis of electrical circuits • Understand diode characteristics and relate it to applications • Understand basic digital electronics • Demonstrate problem solving abilities in the topics covered in the course • Understand Boolean algebra
FY/ Major Paper-II /SEM II	Modern Physics	<ul style="list-style-type: none"> • Understand interaction of particles (both gamma and charged particle) with matter. • Understand nuclear properties and nuclear behavior. • Understand the type of isotopes and their applications. • Demonstrate and understand the quantum mechanical concepts. • Demonstrate quantitative problem-solving skills in all the topics covered. • Understand working of gas filled radiation detector • Find Q value of equation and solution of Q equations • Differentiate various types of nuclear reactions
FY/Practicals /SEM II	Practical/Lab course	<p>Demonstrate use of various scientific instruments confidently.</p> <p>Demonstrate skills of calculating least count of instruments and use it appropriately and express results appropriately.</p> <p>Demonstrate careful conduct of Lab experiments.</p>
FY/minor /SEM II	Basic Physics and Electronics	<ul style="list-style-type: none"> • Use instruments such as Vernier calliper, Screw gauge, multimeter confidently. • Demonstrate skills of calculating least count of instruments and use it appropriately. • Demonstrate careful conduct of Lab

		<p>experiments.</p> <ul style="list-style-type: none"> ● Demonstrate appropriate use of multimeter in measuring various quantities
FY/VSC /SEM II	Circuit Making using Bread Board, Software, and PCB	<ul style="list-style-type: none"> ● Differentiate different electric component and test them ● Use Breadboard for circuit making ● Make circuit and study its working on Tinkercad software ● Make circuit and study its working on Multisim software ● Make circuit and study its working LT-Spice ● Make PCB
SY/Paperr-I/SEM III	Thermodynamics and Mechanics	<ul style="list-style-type: none"> ● Comprehend the basic concepts of thermodynamics ● Understand Second & third law of thermodynamics and its importance ● Understand applications of thermodynamics in different physical situations. ● Understand low temperature physics ● Understand concepts of compound pendulum, Oscillations ● Understand concepts of system of particles, conservation principles and applications ● Understand concepts of Forced oscillations, resonance ● Demonstrate problem solving skills in all above areas
SY/Paper--II/SEM III	Electronics	<ul style="list-style-type: none"> ● Understand operation of basic electronic components like ● transistor and biasing of transistor and its applications. ● Understand working of Operational amplifier and its applications ● Understand basic concepts of oscillators and to perform calculations using them. ● Understand the working of flip flops, registers and counters. ● Demonstrate quantitative problem solving skills in all the topics. ● Understand the digital numbering system. ● Understand basic concepts of oscillators and to perform calculations using them.

SY/Paper--III/SEM III	Mathematical Physics & Vector Calculus	<ul style="list-style-type: none"> ● Understand basic mathematical concepts and techniques required to understand physical phenomena. ● Understand the functions of complex variables ● Solve first order homogeneous and nonhomogeneous differential equations ● Solve homogeneous and nonhomogeneous second order differential equations. ● Solve homogeneous and nonhomogeneous second order differential equations. ● Solve partial differential equations. ● Understand the basic laws of electrodynamics and to be able to perform calculations using them.
SY/Practicals/SEM III	Practicals	<ul style="list-style-type: none"> ● Understand the use of apparatus and their use without fear & hesitation. ● Correlate the physics theory concepts to practical application. ● Understand the concept of errors and their estimate ● Systematically plan and perform various stages namely, drawing appropriate circuit/ray diagram, recording and tabulating observations, drawing appropriate graphs and compute results ● Understand & practice the skills while performing experiments. ● Express all quantities and results in appropriate units
SY/Paper-I/SEM IV	Optics	<ul style="list-style-type: none"> ● understand and differentiate different interference origins. ● understand the principle, construction, working and application of Michelson Interferometer. ● understand principle, construction, working and application of Fabry-Perot interferometer and etalon ● find resolving power of telescope, resolving power of a prism, resolving power of a plane transmission grating. ● understand the phenomenon of diffraction and differentiate between diffraction and interference. ● understand rectilinear propagation of light ● understand the phenomenon of Fresnel and Fraunhofer diffraction, and its applications.

		<ul style="list-style-type: none"> • understand the theory of plane transmission grating. • understand the phenomenon of polarization and its different types, methods to produce polarization of light. • understand the phenomenon of double refraction, Huygens explanation and the concept of positive and negative crystals. • understand the superposition of waves linearly polarised at right angles. • understand the simplest device like quarter wave plate, polarised sheets for producing elliptically/ circularly polarized light.
SY/Paper--II/SEM IV	Charged particle dynamics, Microprocessor, and Astrophysics	<ul style="list-style-type: none"> • Understand the interaction between charged particles and electric fields • Understand the interaction between charged particles and magnetic fields • Understand the principle of cyclotron and mass spectrograph • Appreciate the developments that lead to atomic and particle physics • Understand evolution of microprocessor • Understand and explain internal architecture of microprocessor 8085 • Differentiate between machine language, assembly language and high level language. • Develop algorithms to solve given tasks, as a first step towards programming. • Write flowchart of basic programs. • Find hex code of the instruction and use it while entering the program. • Write programs at appropriate locations and execute programs in different make kits by using its manual confidently. • Use different units in cosmology • Understand Stellar Classification and Life Cycle of a Star • Understand different thermonuclear reactions
SY/Paper--III/SEM IV	Introduction to Crystallography and Quantum Mechanics	<ul style="list-style-type: none"> • Understand symmetry in nature and crystals • Draw different planes in a crystal system • Differentiate different crystal plane • Understand relation between interplanar spacing

		<p>and miller indices</p> <ul style="list-style-type: none"> • Describe two dimensional and three dimensional crystal systems • Understand differences between different 2d nets in terms of symmetry • Demonstrate problem solving skills in crystallography • Differentiate between concepts and use of classical and quantum mechanics • Understand origin and foundation of Quantum mechanics • Understand physics phenomenon which can be explained using Quantum mechanics • Demonstrate use of Schrodinger equation in solving basic problems • Understand significance of wave function • Find out different quantities using wave function
SY/Practicals/SEM IV	practicals	<ul style="list-style-type: none"> • Use instruments such as Vernier calliper, Screw gauge, multimeter, spectrometer confidently. • Understand the use of different apparatus without fear and hesitation. • Demonstrate skills of calculating least count of instruments and use it appropriately. • Demonstrate careful conduct of Lab experiments. • Demonstrate appropriate use of multimeter in measuring various quantities • Demonstrate various experiments in Optics, electronics, microprocessors, few experiments in Crystallography, Quantum Physics and Astrophysics

BSc Microbiology

PSO: Upon completion of **B.Sc. Microbiology Programme**, the graduates will:

- PSO1. Be well-versed with the fundamentals of Microbiology, which in turn will enable them to comprehend the latest developments in Life Sciences.
- PSO2. Be able to apply the acquired conceptual knowledge in real life situations to solve problems as well as create new technologies.
- PSO3. Have acquired knowledge and skills in various fields of Microbiology enabling their application in the Pharmaceutical, Health, Food and Biotechnology industries, as well as in protecting the environment
- PSO4. Have acquired the basic skills and knowledge required for pursuing a career in Research

Class/ Paper/ Semester	Title	Course Outcome
FY/Major Course I/ Sem I	Fundamentals Of Microbiology	<ol style="list-style-type: none">1. Be acquainted with the scope of Microbiology and be familiarized with its various branches2. Understand the historical development of the subject and recent developments in the field
FY/Major Course II/ Sem I	Cell Structure And Biomolecules	<ol style="list-style-type: none">1. Understand cell structure and function and the differentiating features of prokaryotic and eukaryotic cell2. Correlate the importance of biomolecules in cellular chemistry
FY/Major Course III/ Sem I	Practicals Based On Major Course I And II	<ol style="list-style-type: none">1. Work within the standard operating procedures in a Microbiology laboratory2. Test for the presence of microbes in the environment3. Test for presence or absence of specific biomolecules in a sample
FY/VSC/ Sem I	Basic Techniques In Microbiology	<ol style="list-style-type: none">1. Use a microscope to observe microorganisms2. Employ appropriate staining techniques to differentiate between different types of cells and cell structures3. Employ aseptic techniques to culture different types of microorganisms4. Employ appropriate methods to preserve microorganisms

FY/SEC/ Sem I	Sterilization And Disinfection Practices	<ol style="list-style-type: none"> 1. Understand importance of equipments routinely used in a Microbiology lab for microbial control 2. Appreciate the applications of chemicals used for microbial control
FY/IKS/ Sem I	Ancient And Modern Contribution Of India In Microbiology	<ol style="list-style-type: none"> 1. Inculcate Ayurvedic practices in food 2. Apply traditional knowledge for sustainability 3. Follow dincharya or daily regime and appropriate food for the maintenance of good health 4. Understand the importance of Ayurvedic pharmacopoeia
FY/OE/ Sem I	Microbes & Foods	<ol style="list-style-type: none"> 1. Understand the interaction between microbes and food 2. Know and explore more about Indian fermented foods 3. Appreciate the science behind food preservation techniques 4. Practice food hygiene and sanitization to overcome food borne illnesses
FY/Major Course I/ Sem II	Microbial Growth and Interactions	<ol style="list-style-type: none"> 1. Appreciate the factors controlling microbial growth 2. Be aware of the impact of normal microbiota on human lives and begin to understand the significance of host pathogen interactions
FY/Major Course II/ Sem II	Basic Techniques in Microbiology	<ol style="list-style-type: none"> 1. Describe the members of different microbial groups and explain their significance
FY/Major Course III/ Sem II	Practicals Based On Major Course I And II	<ol style="list-style-type: none"> 1. Cultivate and study different groups of microorganism 2. Appreciate the interaction and significance of microorganisms with eukaryotes
FY/VSC/ Sem II	Techniques in Food Microbiology	<ol style="list-style-type: none"> 1. Practice food sampling and its analysis 2. Quantitatively determine microbial populations in food samples using appropriate techniques. 3. Students will create and evaluate food safety plans to minimize foodborne illness risks. 4. Students will be able to design and conduct experiments, analyze data, and draw conclusions related to food microbiology.

FY/Minor/ Sem II	Introduction To Microbiology	<ol style="list-style-type: none"> 1. Explain the ubiquity and the wide range of ecological habitats of microorganisms in nature. 2. Appreciate the diversity of microorganisms and outline the structural and functional differences among all microbes. 3. Understand the role microorganisms play in the medicine, biotechnology and other industries, like wine and baking, that are important to human well-being.
FY/OE/ Sem II	Microbes and Food	<ol style="list-style-type: none"> 1. Understand the interaction between microbes and food 2. Know and explore more about Indian fermented foods 3. Appreciate the science behind food preservation techniques 4. Practice food hygiene and sanitization to overcome food borne illnesses
SY/Paper I/Sem III	General Microbiology	<ol style="list-style-type: none"> 1. Elucidate the basic concepts of genetics and its path-breaking discoveries 2. Explain the basic principles and techniques of recombinant DNA technology 3. Describe the structure, classification, life cycle and cultivation of viruses 4. Write a proposal for a simple research project
SY/Paper II/Sem III	Microbial Environments	<ol style="list-style-type: none"> 1. Explain the concept of aeromicrobiology and its significance in environmental and public health. 2. Describe the role of microbes in aquatic and terrestrial environments 3. Appreciate the microbial survival strategies in extreme environments
SY/Paper III/Sem III	Biochemistry and Bioanalytical Techniques	<ol style="list-style-type: none"> 1. Use and handle basic instruments like pH Meter, colorimeter and centrifuge 2. Explain the types of metabolic pathways and their significance with respect to energy and reducing power 3. Understand the properties of enzymes, their classification and role in cell functioning

SY/Paper IV/Sem III	Practicals based on VESUSMB301, VESUSMB302 & VESUSMB303	<ol style="list-style-type: none"> 1. Demonstrate competence in various laboratory techniques, including microbial isolation, enzyme assays, and spectrophotometric analysis, while adhering to safety and quality protocols. 2. Utilize data analysis tools (e.g., Excel) and biostatistical methods to collect, analyze, and interpret data effectively in microbiological research.
SY/Paper I/Sem IV	Bioanalytical Techniques and Food Microbiology	<ol style="list-style-type: none"> 1. Explain the interactions between microorganisms and the food environment, and factors influencing their growth and survival. 2. Describe the beneficial role of microorganisms in fermented foods and in food processing. 3. Discuss the rationale for the use of standard methods and procedures to detect/enumerate microorganisms and/or their products in foods. 4. Describe the strengths, limitations and use of chromatography and electrophoresis techniques.
SY/Paper II/Sem IV	Microbial Evolution, Taxonomy, Ecology & Role of Microbiology in Sustainable Development	<ol style="list-style-type: none"> 1. Explain the major milestones in the evolution of living organisms and the various methods to classify bacteria 2. Describe the ecology of microbial communities and the methods to study them 3. Describe the application of microorganisms in sustainable development
SY/Paper III/Sem IV	Medical Microbiology and Immunology	<ol style="list-style-type: none"> 1. Understand the tactics used by microbial pathogens to cause infection and explain the different phases and patterns of infections as also epidemiological concepts . 2. Will be able to appreciate and correlate the broad host factors responsible for overcoming an infection. 3. Understand the principles of traditional and modern diagnostic methods for various diseases
SY/Paper IV/Sem IV	Practicals based on VESUSMB401, VESUSMB402 & VESUSMB403	<ol style="list-style-type: none"> 1. Demonstrate an understanding of the microbiological principles underlying food spoilage and foodborne pathogens. 2. Develop skills in designing and conducting microbiological experiments relevant to food safety and quality.

TY/Paper I/Sem V	Microbial Genetics	<ol style="list-style-type: none"> 1. <i>DNA Replication: The learner will understand the sequence of events, mechanism, enzymes and proteins involved in replication of DNA in prokaryotes and eukaryotes.</i> 2. <i>Transcription, Genetic Code and Translation: The student will know the central dogma of biology its two-step transcription and translation, maturation of RNA.</i> 3. <i>Mutation and DNA repair: The learner will know the concept of mutation, its types, causes and their effects. This module will also make them understand types of mutagens, damage to DNA due to mutagenesis, various mechanisms of DNA repair.</i> 4. <i>Genetic exchange: The student shall understand the various mechanisms of gene transfer in bacteria and genetic recombination.</i> 5. <i>Practicals: The students will acquire skill to perform the laboratory techniques and experiments based on the above topics.</i>
TY/Paper II/Sem V	Medical Microbiology & Immunology: Part - I	<ol style="list-style-type: none"> 1. <i>Give details of the virulence factors and other features of the pathogen</i> 2. <i>Correlate these virulence factors with the pathogenesis and clinical features of the disease</i> 3. <i>Comment on the mode of transmission, and therefore modes of prophylaxis of these Diseases</i> 4. <i>Comment on the methods of diagnosis of the disease.</i> 5. <i>Conceptualize how the adaptive immune responses coordinate to fight invading pathogens and the organs and tissue involved</i> 6. <i>Discuss the role of antigen in initiating the immune response</i> 7. <i>Correlate the structure & functions of immunoglobulin</i> 8. <i>Understand the importance of cytokines, MHC, APCs, Cytokines, and the role in adaptive immunity.</i> 9. <i>Understand the various antigen –antibody reactions</i>
TY/Paper III/Sem V	Microbial Biochemistry: Part - I	<ol style="list-style-type: none"> 1. <i>Understand the architecture of the membrane and how solute is transported inside the cell.</i>

		<ol style="list-style-type: none"> 2. Describe and explain the electron transport chains in prokaryotes and mitochondria and understand the mechanism of ATP synthesis. 3. Explain bioluminescence mechanism and its significance 4. Discuss the experimental aspect of studying catabolism and anabolism and the various pathways for the breakdown of carbohydrates along with reactions in amphibolic pathways. 5. Describe various other pathways which produce different end products. 6. Describe anabolic reactions in carbohydrate synthesis. 7. Apply the concepts of energetics and catabolism in biodegradation of various substrates.
TY/Paper IV/Sem V	Microbial Biochemistry: Part - I	<ol style="list-style-type: none"> 1. Describe 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 substrate fermentations 3. Describe the design of bioreactors for different applications and its process parameters 4. Design media, growth conditions and techniques for producing and recovering different types of products of commercial value. 5. Learners will be well-versed with the containment and levels of containment.
TY/Paper V/Sem V	Introduction to Biotechnology	<ol style="list-style-type: none"> 1. Students will become competent by gaining knowledge of bioremediation, industrial production and animal biotechnology which will enhance their chances for employment and for further education. 2. The students will acquire knowledge to carry out techniques in biotechnology and will understand the applications of transgenic animals and the methods used for obtaining transgenic animals.
TY/Paper I/Sem VI	rDNA Technology, Bioinformatics & Virology	<ol style="list-style-type: none"> 1. rDNA technology: This module will make the student understand the methods to construct recombinant DNA molecules, also know the tools required like vectors, restriction enzymes etc. 2. Application of rDNA technology and Bioinformatics: The learner will know about applications of r DNA technology, through bioinformatics the student will understand the use

		<p><i>of databases and software tools for understanding biological data.</i></p> <ol style="list-style-type: none"> <i>3. 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 classification of viruses.</i> <i>4. Advanced Virology: The learner will understand the basic structure and life cycle of different viruses and their cultivation. The student will get basic knowledge on Prions, Virioids and viruses causing cancer.</i>
TY/Paper II/Sem VI	Medical Microbiology & Immunology: Part - II	<ol style="list-style-type: none"> <i>1. Give details of the virulence factors and morphological and cultural features of the pathogen</i> <i>2. Correlate these virulence factors with the pathogenesis and clinical features of the disease</i> <i>3. Comment on the mode of transmission, and modes of prophylaxis of these diseases</i> <i>4. Given a few key clinical features, identify the likely causative agent.</i> <i>5. Comment on the methods of diagnosis of the disease.</i> <i>6. Understand the structure and role of T and B cells in generating adaptive immunity and thereby study effector responses in both Humoral & Cell Mediated Immunity</i> <i>7. Acquire an understanding of the role of immune system in disease:</i> <i>8. Understand the activation of complement system</i> <i>9. Apply the concept of immunity to prevention of disease by development of vaccines</i>
TY/Paper III/Sem VI	Medical Microbiology & Immunology: Part - II	<p><i>Understanding of the following metabolic process and their significance.</i></p> <ol style="list-style-type: none"> <i>1. Metabolism of Lipids, Fatty acids, Nucleotides and Amino acids</i> <i>2. Catabolism of Protein and aliphatic hydrocarbons</i> <i>3. Regulation of metabolic process at various levels</i> <i>4. Photosynthesis</i> <i>5. Metabolism of inorganic molecules with special reference to nitrate and sulfate</i> <i>6. Biological Nitrogen fixation</i> <i>7. Lithotrophy</i>

TY/Paper IV/Sem VI	Bioprocess Technology: Part - II	<ol style="list-style-type: none"> 1. Understand the actual process involved in fermentations of important products. 2. To apply the knowledge of applications of animal and plant tissue culture techniques. 3. Learn the applications of immobilized enzymes in various fields. 4. Understand the working of important instruments used in biochemical analysis and bioassay. 5. Learn the salient features of quality management and regulatory procedures.
TY/Paper V/Sem VI	Applied Biotechnology	<ol style="list-style-type: none"> 1. Students will be trained to address issues of Bioenergy and Biofuels 2. They will be skilled to respond to issues related to genetic engineering in plant biotechnology. 3. The learner will be able to comprehend details of the role of biotechnology in society

BSc Chemistry

PSO:PSO: Upon completion of **B.Sc. Chemistry Programme**, the graduates will:

PO1

Demonstrate analytical skills in applying appropriate science principles and methodologies to solve a wide range of problems.

PO2

Design, carry out experiments and analyze results by accounting uncertainties in different quantities measured using various scientific instruments.

PO3

Demonstrate professional behavior of being unbiased, and truthful in all aspects of work as an individual as well as team.

PO4

Broad and balanced knowledge in chemistry in addition to understanding of key chemical concepts, principles and theories.

PO5

To develop students' ability and skill to acquire expertise over solving both theoretical and applied chemistry problems

PO6

To impart knowledge on different topics of Chemistry viz., inorganic, organic, physical and of the level expected from a Graduate in Chemistry

Class/ Semester	Paper/ Title	Course Outcome
FY/Major Course I/ Sem I	Chemistry Paper 1 (Basics in Physical and Inorganic Chemistry I)	<p>On successful completion of this course students will be able to:</p> <ul style="list-style-type: none"> ● The students should be well acquainted with the fundamental topics in physical chemistry and inorganic chemistry such as thermodynamics, Chemical kinetics, Understanding the historical development of atomic structure, Hydrogen spectrum and principles of quantum mechanics. ● To learn the concept of thermodynamics with respect to the first law of thermodynamics. Evaluate the properties of liquids like Surface tension, Liquid Crystal and Viscosity. ● Reinforce the historical development that led to our modern knowledge of the structure of the atom. ● Chemistry of oxides and properties of common laboratory chemicals. ● Anomalous behaviour of elements like nitrogen, oxygen and fluorine.
FY/Major Course II/ Sem I	Chemistry Paper 2 (Basics in Organic and Inorganic Chemistry I)	<p>On successful completion of this course students will be able to:</p> <ul style="list-style-type: none"> ● Students will be able to understand the concept of common ion effect. ● To understand the basics of qualitative analysis. ● To learn the appropriate geometry of organic molecules through the concept of hybridization ● To learn the stability of organic reaction intermediates with the help of various electronic effects and their applications in studying organic reaction mechanisms. ● To draw the configuration of organic molecules in various projection formulas and Interconvert them. ● Identify the stereocenters in a molecule and assign the configuration as D/L and R or S.

FY/Major Course III/ Sem I	Chemistry Practical based on Paper1 & Paper2	On successful completion of this course students will be able to: <ul style="list-style-type: none"> ● To learn to perform experiments that has specific aims with correct techniques. ● To develop skills of observation, recording and analyzing data. ● To learn to present the experimental work in a systematic manner
FY/VSC/ Sem I	Water Analysis	On successful completion of this course students will be able to: <ul style="list-style-type: none"> ● Describe the chemical compositions of waters samples ● To develop confidence in students by providing more exposure to practical based skills for analysis ● To develop learning to learn skills and practical skills to cope up with industrial processes. ● Students will gain basic and scientific knowledge of water sample analysis ● Students will get conceptual knowledge and develop analytical ability ● Develop problem solving ability through practical knowledge.. ● Experimental and practical knowledge.
FY/SEC/ Sem I	Laboratory Techniques in Chemistry	On successful completion of this course students will be able to: <ul style="list-style-type: none"> ● Students will develop analytical skills in applying appropriate science principles and methodologies to learn a wide range of lab techniques. ● Students will be acquainted to Perform tests related to cation and anion analysis. ● Students will understand the paper chromatographic technique ● Students will be able to determine the relative surface tension of a given liquid.

FY/IKS/ Sem I	Ancient and modern contribution of India in Chemistry	<p>On successful completion of this course students will be able to:</p> <ul style="list-style-type: none"> • The students will understand the ancient chemical knowledge of Indians. • Students will gain historical development of Chemistry from ancient India. • Understand Indian Knowledge of Metallurgy from history. • Know Use of chemicals from historic time period • Look into different apparatus and methods used for different processes.
FY/OE/ Sem I	Chemistry & Society (Chemistry)	<p>On successful completion of this course students will be able to:</p> <ul style="list-style-type: none"> • To expand the literacy of chemistry, and increase general awareness, background of chemistry and its importance among the non-chemistry student even arts as well as commerce. • To make a common student understand the importance and role of chemistry in the development of civilization, societal issues related to chemistry and their expected solutions. • Explain the chemistry of household chemicals, and the composition of air and water • Apply knowledge of a specific chemical concept to a current environmental, health, industrial, or technological issue or condition • Chemistry and chemical processes are very important in both the natural environment and in human society. It is important to understand how chemistry helps to develop the products and services that we utilise, as well as how chemical products from society impact the environment, and how we can mitigate such impacts. • Students will understand the importance of chemistry and its role in the modern world. Students will understand the importance of

		chemistry in relation to societal goals and environmental issues.
FY/Major Course I/ Sem II	Chemistry Paper 1 (Basics in Physical and Inorganic Chemistry II)	<p>On successful completion of this course students will be able to:</p> <ul style="list-style-type: none"> • The students will understand the gaseous behaviour in physical chemistry, inorganic chemistry. • To study different gas laws, concept of compressibility factor and van der Waals equation of state, ionic equilibria • To study molecular spectroscopy. • To study structures of molecules based on VSEPR theory • To understand the balancing of redox reactions and constructing Frost and Latimer diagrams of redox species.
FY/Major Course II/ Sem II	Chemistry Paper 2 (Basics in Organic and Inorganic Chemistry II)	<p>On successful completion of this course students will be able to:</p> <ul style="list-style-type: none"> • To understand the basics of Acid Base Theories • To identify the product and complete the reaction of alkenes and alkynes. • Classify compounds into aromatic, non-aromatic and anti aromatic. • Predict the correct method of preparation of alkenes, alkynes. • To draw various conformations of alkanes and cycloalkanes and predict their relative stabilities. • To recognize and distinguish between aromatic and antiaromatic compounds by their structures. • To write the reactions and outline the mechanism of electrophilic aromatic substitution reactions.

FY/Major Course III/ Sem II	Chemistry Practical based on Paper I & Paper 2	On successful completion of this course students will be able to: <ul style="list-style-type: none"> ● To study the importance of MSDS. ● To develop skills of observation, recording and analyzing data. ● To learn to present the experimental work in a systematic manner
FY/VSC/ Sem II	Analysis of Commercial Food Samples	On successful completion of this course students will be able to: <ul style="list-style-type: none"> ● Students will be acquainted with different types of adulteration in commercial food samples ● Students will be able to evaluate the safety & nutritional value of the food. ● Students will be able to select healthy recipes based on knowledge of nutrition, diet. ● Students will gain insight about basic tenets of traditional diets for health. ● Student will be able to understand key principles with respect safety of Food and Nutrition ● Students will be able to select healthy recipes based on knowledge of nutrition, diet and disease
FY/Minor/ Sem II	CHEMISTRY (FUNDAMENTALS OF CHEMISTRY) (MINOR)	On successful completion of this course students will be able to: <ul style="list-style-type: none"> ● The students should be well acquainted with the fundamental topics in physical chemistry, inorganic chemistry, organic chemistry such as thermodynamics, Chemical kinetics, Understand the historical development of periodic table of elements & Periodicity, chemistry of the main group elements and their compounds, & the student must understand the nomenclature of organic compounds. ● To learn the concept of thermodynamics with respect to first law of thermodynamics. To learn mole concept, concentration calculations and various stoichiometric relationships useful in quality control laboratories

		<ul style="list-style-type: none"> ● Bonding and Structure of organic compounds. ● Fundamentals of organic reaction mechanism. ● To learn the appropriate geometry of organic molecules through the concept of hybridization ● Identify the hybridization of carbon in the given molecule. ● Write the mechanism using fundamental concepts of writing mechanism. ● Understand the basic theories of atomic structures. ● Students will be able to understand the concept of atomic orbitals.
FY/OE/ Sem II	Chemistry & Society (Chemistry)	<p>On successful completion of this course students will be able to:</p> <ul style="list-style-type: none"> ● To expand the literacy of chemistry, and increase general awareness, background of chemistry and its importance among the non-chemistry student even arts as well as commerce. ● To make a common student understand the importance and role of chemistry in the development of civilization, societal issues related to chemistry and their expected solutions. ● Explain the chemistry of household chemicals, and the composition of air and water ● Apply knowledge of a specific chemical concept to a current environmental, health, industrial, or technological issue or condition ● Chemistry and chemical processes are very important in both the natural environment and in human society. It is important to understand how chemistry helps to develop the products and services that we utilise, as well as how chemical products from society impact the environment, and how we can mitigate such impacts. ● Students will understand the importance of chemistry and its role in the modern world. Students will understand the importance of chemistry in relation to societal goals and

		environmental issues.
SYBSC Chemistry	PO	<p>A learner will be able to:</p> <ul style="list-style-type: none"> • Demonstrate analytical skills in applying appropriate science principles and methodologies to solve a wide range of problems. • Design, carry out experiments and analyze results by accounting uncertainties in different quantities measured using various scientific instruments. • Demonstrate professional behavior of being unbiased, and truthful in all aspects of work as an individual as well as team.
SYBSC Chemistry	PSO	<ul style="list-style-type: none"> • To infuse in the learner a spirit of inquiry into the fundamental aspects of the various core areas of Chemistry such as Electrochemistry, Chemical bonding & coordination compounds, reactions & reactivity of hydrocarbons. • Demonstrate competence in problem solving skills in different areas of Chemistry • Gain the knowledge of the chemistry of the elements of p-block, • Compare the properties of main group elements in the respective groups, Ions in aqueous medium & related effects on environment, Solid state, catalysis • The student must understand the reactions of carbonyl compounds, amines, heterocyclic compounds & related reactions, the routes of synthesis of different types of materials and their characteristics.
SYBSc/Paper I/ Semester III	Chemistry Paper 01 VESUSCH301	<ul style="list-style-type: none"> • Students will learn to calculate various thermodynamic parameters and application of Clausius Clapeyron equation. • Students will be acquainted with various terms of electrochemistry, will be able to solve numericals of electrochemistry. • Students will learn to calculate Lattice energy of compounds, hybridization of molecules. • Students will understand basic operations in Metallurgy and certain environmental aspects. • To learn different types of nucleophilic substitution reactions. To study the kinetics,

		<p>mechanism & stereochemistry of these reactions. To study the nomenclature, synthesis, chemical reactions and uses of alcohols, phenols and epoxides. LO6 To interpret M-C bond nature and reactivity order of organometallic compounds. To learn synthesis, importance of organometallic compounds</p>
<p>SYBSc/Paper II/ Semester III</p>	<p>Chemistry Paper 02 VESUSCH302</p>	<ul style="list-style-type: none"> ● Students will be acquainted with different types of reaction, factors affecting reaction. ● Students will be acquainted with ideal non-ideal solution and will also be able to apply Nernst equation to various systems. ● Students will know hybridisation in Boron compounds and extraction processes ● Students will gain insight into the industrial process for Manufacturing of Ammonia ● To know the trivial and IUPAC names of carbonyl compounds. ● To interpret the structure and study reactivity of carbonyl compounds. ● To study preparation of aldehydes and ketones. ● To study reactions of aldehydes and ketones with their reaction mechanism. ● To study some selected name reactions and active methylene compounds reactions with their reaction mechanism.
<p>SYBSc/Paper III/ Semester III</p>	<p>Chemistry Paper 03 VESUSCH303</p>	<ul style="list-style-type: none"> ● Students will be acquainted with different types of reaction, factors affecting reaction. ● Students will be acquainted with idea. non ideal solution and will also be able to apply Nernst equation to various system ● Students will know hybridisation in Boron compounds and extraction processes ● Students will gain insight into the industrial process for Manufacturing of Ammonia ● To know the trivial and IUPAC names of carbonyl compounds. To interpret the structure and study reactivity of carbonyl compounds. To study preparation of aldehydes and ketones. ● To study reactions of aldehydes and ketones with their reaction mechanism. ● To study some selected name reactions and active methylene compounds reactions with their reaction mechanism

SYBSc/PaperI-II-II I/ Semester III	Chemistry Practicals	<ul style="list-style-type: none"> ● Students can validate Ostwald law for weak acid ● Learner will be able to handle instruments like conductometer & potentiometer ● Students will learn the purification of water by volumetric analysis. ● Learners will be able to detect qualitatively the presence of cations & anions in a given mixture. ● The learner will be able to find the relation between concentration and Absorbance will be able to draw a calibration curve, using the slope of the calibration curve. ● The learner will be able to make derivatives of organic compounds and will be able to calculate the percentage yield.
SYBSc/PaperI/ Semester IV	Chemistry Paper 01 VESUSCH401	<ul style="list-style-type: none"> ● Learner can evaluate thermodynamic parameters ● Learner will know importance of Phase diagram ● Learners will be able to know the properties of transition elements and 15 coordination compounds. ● Learner can go through industrial process of extraction of silver ● To know the method of naming carboxylic acids and sulphonic acids. ● To understand the basic properties of carboxylic acids and sulphonic acids. ● To learn various methods of preparation of carboxylic acids and sulphonic acid ● To study the comparative acidity of carboxylic acid and sulfonic acids. ● To study the mechanism of various reactions of carboxylic acid and sulfonic acids.
SYBSc/PaperII/ Semester IV	Chemistry Paper 02 VESUSCH402	<ul style="list-style-type: none"> ● Learner will gain knowledge of solid crystals and catalysis ● Learner will gain knowledge of X-rays ● A learner can gain knowledge of acidity and basicity of ions can be calculated ● Learner will know Minamata and Bhopal gas tragedy a case study ● To know the trivial & IUPAC names of aliphatic and aromatic amines. To understand the effect of substituent on basicity of aliphatic and aromatic amines. ● To study diazonium salts preparation and their reactions/synthetic application.

		<ul style="list-style-type: none"> To study classification, nomenclature, electronic structure, aromaticity in 5- membered and 6-membered rings containing one heteroatom.
SYBSc/PaperIII/ Semester IV	Chemistry Paper 03 VESUSCH403	<ul style="list-style-type: none"> To study potentiometry and its application To study the pH of system Learner will learn titration using pH metry Learner will understand different types of electrodes Learner will understand different errors Student will gain knowledge of importance of accuracy Learner will understand analytical data from different graph and its interpretation
SYBSc/PaperIII/ Semester IV	Chemistry Practicals	<ul style="list-style-type: none"> Learner can handle instruments like potentiometer & conductometer Students will be able to determine rate constants and will be able to compare the various rates. Students will also learn to plot the graph. Learner will able to learn and perform microscale technique in inorganic preparations The learner will able to perform the different test for organic compounds Chromatography a simple tool can be performed in lab to know process of detection
TY/PAPER I/ Sem V	Physical Chemistry	<ul style="list-style-type: none"> Gain in-depth knowledge of physical chemistry concepts, including thermodynamics, kinetics, and surface chemistry, as well as analytical techniques used in classical and modern chemical analysis. Understand nuclear reactions, radioactive decay, and the applications of radioisotopes in chemical analysis and dating methods, with practical insights into detection and measurement techniques. Students will be acquainted with different types of radioactive decay (alpha, beta, gamma) and the concept of half-life and unit of radioactivity. Students will learn to Identify various methods and instruments used to detect and measure radiation (e.g., Geiger counters, scintillation counters) and understand their applications.

		<ul style="list-style-type: none"> ● Students will be acquainted to differentiate between physical and chemical adsorption by understanding and applying adsorption isotherm models.
TY/PAPER II/ Sem V	Inorganic Chemistry	<ul style="list-style-type: none"> ● Students will be able to predict symmetry of molecules ● Learner's will be able to construct MO diagram of heteronuclear molecule ● Learner's will be able to understand chemistry of non-aqueous solvents ● Learners will gain an understanding of the properties of inorganic compounds. ● Learner will gain knowledge of crystals ● Learner will be able to explain properties of Lanthanides
TY/PAPER III/ Sem V	Organic Chemistry	<ul style="list-style-type: none"> ● The evidence, mechanism & stereochemical aspects of substitution and elimination reactions. ● To study the concept of pericyclic reactions ● To know the difference between thermal and photochemical reactions. ● To specify the spatial information necessary to identify chirality in a molecule without a stereogenic centre. ● How to characterize products by physical and spectroscopic means including IR, NMR and MS ● Basic stereochemistry ● Spectroscopic techniques for structure elucidation of compounds using UV-IR, NMR and Mass spectroscopic techniques. ● To learn the concept, synthesis and applications of agrochemicals ● To rationalize the reactivity of heterocyclic compounds ● To know the rules for converting names of organic compounds into their structures and vice versa. ● To figure out the significance of natural products in terms of their biosynthesis, biological activity and chemical synthesis and combining organic and biological chemistry.

<p>TY/PAPER IV/ Sem V</p>	<p>Analytical Chemistry</p>	<ul style="list-style-type: none"> ● Understanding Quality Concepts: Students will be able to articulate the principles of quality control and quality assurance in analytical chemistry, demonstrating an understanding of their importance in industrial applications and the use of certified reference materials. ● Proficiency in Chemical Calculations: Students will develop the ability to perform various chemical calculations, including the interconversion of concentration units and the calculation of percent composition of elements in compounds, enhancing their quantitative analytical skills. ● Sampling Techniques: Students will gain practical knowledge of sampling techniques for solids, liquids, and gases, including the significance of sample size and the methods used for effective sampling in different states of matter. ● Application of Analytical Methods: Students will be equipped to apply various instrumental and classical analytical methods to solve real-world problems, including the estimation of specific analytes in different matrices.
<p>TY/PAPER V/ Sem V</p>	<p>Applied component Heavy and Fine chemicals</p>	<ul style="list-style-type: none"> ● The student should gain the knowledge of the industrial processes and their compounds, the methods of obtaining them ,large scale manufacture of bulk and fine chemicals. The Preparation and the properties of drugs and the and their applications.

<p>TY/PAPER I/ Sem VI</p>	<p>Physical Chemistry</p>	<ul style="list-style-type: none"> ● Students will be acquainted with different types of radioactive decay (alpha, beta, gamma) and the concept of half-life and unit of radioactivity. ● Students will learn to Identify various methods and instruments used to detect and measure radiation (e.g., Geiger counters, scintillation counters) and understand their applications. ● Students will learn to apply the knowledge of nuclear reaction and will be able to solve the numericals. ● Student will be able to analyze fissile and fertile materials ● Students will be acquainted with the concept of chain reactions, multiplication factor, and critical mass, the students will understand the workings of nuclear reactors. ● Students will understand the principles of nuclear fusion and thermonuclear reactions occurring on stellar bodies and on Earth. ● Students will learn to apply the knowledge to calculate molar masses of polymers by viscosity method (Ostwald Viscometer). ● Students will be able to classify polymers based on source, structure, thermal response, and physical properties into detection and measurement techniques.
<p>TY/PAPER II/ Sem VI</p>	<p>Inorganic Chemistry</p>	<ul style="list-style-type: none"> ● Learner will gain theoretical aspects of Complex formation with specific geometry ● Learners will gain theoretical knowledge of MO formation in octahedral geometry and inorganic reaction attributes of Complexes. ● Learner will have exposure to competitive exams based on organometallic chemistry ● Students will learn about uses of different inorganic catalysts ● Students will learn about uses of different inorganic mettalocenes

<p>TY/PAPER III/ Sem VI</p>	<p>Organic Chemistry</p>	<ul style="list-style-type: none"> ● To study the concept of selectivity and topicity. ● To study the stereochemical aspects of various organic reactions ● To learn the basic chemical and structural features of amino acids and proteins. ● To predict and write the mechanism and stereochemistry of various molecular rearrangement reactions. ● To represent the carbohydrates in various spatial arrangements and interconvert them ● To write various reactions pertaining to different functional group transformations in carbohydrates ● Brief idea about the advantages of spectroscopic methods. ● Various terminology used and basic concepts of IR and PMR. ● Application of UV, Mass and PMR spectroscopy in structural determination
<p>TY/PAPER IV/ Sem VI</p>	<p>Analytical Chemistry</p>	<ul style="list-style-type: none"> ● Analyze the types of photometric titrations with examples and discuss their applications in quantitative analysis ● Differentiate between potentiometry and voltammetry, and explain the use of polarizable and non-polarizable electrodes. ● Analyze the advantages and limitations of polarography and its applications in chemical analysis. ● Understand the instrumentation and applications of fluorescence and phosphorescence spectroscopy and compare these techniques with absorption methods
<p>TY/PAPER V/ Sem VI</p>	<p>Applied component Heavy and Fine chemicals</p>	<p>The student should acquire an understanding of the chemistry of elements and their compounds, including how to obtain them, as well as the large-scale production of both bulk and fine chemicals. Additionally, they should learn about the preparation and properties of dyes and their applications in various fields</p>

BCom Programme**PSO:****Program Outcomes (PO)**

A learner completing Bachelor of Commerce will be able to:

PO1 Demonstrate analytical skills in applying appropriate arts principles and methodologies to solve a wide range of problems.

PO2 Design, carry out research and analyze results by accounting for uncertainties in different quantities measured using various social/ scientific instruments.

PO3 Demonstrate professional behavior of being unbiased, and truthful in all aspects of work as an individual as well as team.

PO4 Be generally imbibed with realization of human values.

PO5 Develop a sense of social service.

PO6 Become a responsible and dutiful citizen.

PO7 Develop a critical temper and creative ability.

ACCOUNTANCY DEPARTMENT (2023-24)

Class/ Semester	Paper/ Title	Course Outcome
F. Y. B. Com Paper - I Sem I (MAJOR) (NEP 2023-24)	Accountancy and Financial Management-I	After completion of this course learner will be able to: PSO1. Calculate Value inventory as per FIFO method and Weighted Average Method. PSO2. Prepare final accounts of Manufacturing Concern. PSO3. Prepare Department Final Accounts.
F.Y.B.Com Basics of Direct Taxation (Open Elective) (NEP 2023-24)	Basics of Direct Taxation	After completion of this course learner will be able to: PSO 01. Determine Residential Status of an Individual assessee. PSO 02. Compute Income from Salary of an Individual assessee. PSO 03. Compute Income from House Properties of an Individual assessee. PSO 04. Compute Total Income of Individual assessee.
F. Y. B. Com Paper - II Sem II (MAJOR) (NEP 2023-24)	Accountancy and Financial Management-II	PSO 01. Prepare Final Accounts from Incomplete Records. PSO 02. Pass Journal Entries of Debtors Method; Stock and Debtors Method of Branch Accounting. They can also prepare ledger accounts under Debtors method and Stock and Debtors method of Branch. PSO 03. Calculate Fire Insurance Claim.

<p>F.Y.B.Com Sem II (Open Elective) Basic of Indirect Taxation (NEP 2023-24)</p>	<p>Basic of Indirect Taxation</p>	<p>After completion of this course learner will be able to: PSO 01. Compute Residential Status of an Individual assessee. PSO 02. Compute Income from Salary of an Individual assessee. PSO 03. Compute Income from House Properties of an Individual assessee. PSO 04. Compute Total Income of Individual assessee.</p>
<p>S.Y.B.COM SEM III (NON-NEP 2023-24)</p>	<p>Accountancy & Financial Management-III</p>	<p>PSO1 To study how to prepare Partnership Final Accounts based on Adjustments of Admission or Retirement/Death of a Partner during the year. PSO2 To understand how to prepare Statement of distribution of Cash under Excess Capital Method. PSO3 To Study Accounting of Amalgamation of firm. PSO4 To learn accounting of Conversion of a firm into a limited company.</p>
<p>S.Y.B.COM SEM III (NON-NEP 2023-24)</p>	<p>Introduction to Management Accounting</p>	<p>PSO1 To learn analysis and interpretation of financial statements. PSO2 To gain knowledge about ratio analysis and interpretation of different ratios. PSO3 To Study how to prepare statement of Working Capital. PSO4 To understand Capital Budgeting techniques such as Payback Period, Accounting Rate of Return, Net Present Value and Profitability Index.</p>
<p>S.Y.B.COM SEM IV (NON-NEP 2023-24)</p>	<p>Accountancy & Financial Management-IV</p>	<p>PSO1 To study Meaning of Shares, Debenture, Types of Preference Shares and Debentures and accounting procedure of Issue of Shares and Debentures. PSO2 To understand accounting procedure of Redemption of Preference shares as per Section 55 of Companies Act, 2013. PSO3 To Study accounting procedure of Redemption of Debentures as per Capital Method and Profit Method. PSO4 To learn accounting of Profit Prior to Incorporation.</p>

<p>S.Y.B.COM SEM IV (NON-NEP 2023-24)</p>	<p>Auditing</p>	<p>PSO1 To learn the Meaning, objectives and Types of Auditing. PSO2 To understand the various audit procedures taken place during the course of audit. PSO3 To gain knowledge on internal control, internal check and internal audit. PSO4 To learn Audit Techniques of Vouching and Verification of Incomes, Expenses, Assets and Liabilities. PSO5 To understand the qualifications, appointment and removal of Company's Auditor and Preparation of Audit Report.</p>
<p>S.Y.B.A SEM III (NON-NEP 2023-24)</p>	<p>Book Keeping and Accountancy -I</p>	<p>PS01 To understand the concept and Functions of Bookkeeping and Accounting. PS02 To learn Accounting Terminologies. PS03 To understand Accounting Concepts and Conventions. PS04 To gain knowledge of the Double Entry System of Bookkeeping. PS05 To learn Classification of Accounts and application of Rules of Debit and Credit. PS06 To learn posting from Journal to Ledger and balancing of ledger Accounts.</p>
<p>S.Y.B.A SEM IV (NON-NEP 2023-24)</p>	<p>Book Keeping and Accountancy II</p>	<p>PS01 To understand classification of cash and credit transactions. PS02 To understand the Procedure of preparation of Bank Reconciliation Statement. PS03 To understand the Meaning of Depreciation, Need for Depreciation and Methods of Providing Depreciation. PS04 To understand Meaning and importance of financial statements of a Proprietary Concern. PS05 To learn Preparation of Trading Account, Profit and Loss Account and Balance Sheet of a Proprietary Concern.</p>
<p>T.Y.B.Com Sem V (NON-NEP 2023-24)</p>	<p>Financial Accounting & Auditing - Paper VII Financial Accounting</p>	<p>The learners will be able to:</p> <ol style="list-style-type: none"> 1. Solve Problems of Company Final Accounts. 2. Understand accounting entries of Internal Reconstruction. 3. Solve problems of Buy Back of Shares.

		<p>4. Prepare Investment Accounts as per AS-13.</p> <p>5. Write and Explain Ethical behaviour and Implication for Accountants</p>
T.Y.B.Com Sem V (NON-NEP 2023-24)	Financial Accounting & Auditing - Paper VIII Cost Accounting	<p>The learners will be able to:</p> <ol style="list-style-type: none"> 1. Understand cost, objectives and scope of cost accounting, cost classification, elements of costs, cost behavior pattern. 2. Estimation and calculation of different levels and control of material cost. 3. Gain knowledge regarding Labour Turnover, Utilisation of Labour, Direct and Indirect Labour, Charging of Labour Cost, Remuneration and incentive systems. 4. Gain knowledge of methods of allocation, calculation and absorption of overheads. 5. To prepare a cost sheet, with maximum details showing Classification of Costs, Total Costs and Unit Costs for different units of goods. <p>Understand the reasons for difference in the profits/losses shown by financial and cost records and preparation of reconciliation statements for the same.</p>
T.Y.B.Com Sem V (NON-NEP 2023-24)	Direct & Indirect Taxation – I	<p>Learners will be able to:</p> <ol style="list-style-type: none"> 1. Identify various concepts and terms related to direct taxation. 2. Determine the residential status of an assessee and to compute the taxable income of assessee with different residential status. 3. Compute income from various Heads namely salaries, house property, business/profession, capital gains and income from other sources. 4. Understand the various benefits/ deductions under Chapter VI-A of the Income tax act, 1961. 5. Compute the net total income 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.

T.Y.B.Com Sem VI (NON-NEP)2023-24)	Financial Accounting & Auditing - Paper IX Financial Accounting	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Solve Problems of Amalgamation, Absorption and External Reconstruction of Companies. 2. Write and Explain Accounting Entries as per AS -11 relating to Foreign Currency Transactions. 3. Prepare Statement of Liquidators Final Statement of Accounts and Statement of Affairs of the Company. 4. Solve problems of Limited Liability Partnership Final Accounts.
T.Y.B.Com Sem VI (NON-NEP 2023-24)	Financial Accounting & Auditing - Paper X Cost Accounting	<p>The learners will be able to:</p> <ol style="list-style-type: none"> 1. understand the Integrated and non-integrated system of Cost Accounting, relationships between cost and financial accounting and preparation of various cost ledger accounts 2. understand the meaning of a contract and other terms used in contract costing, computation of profit of an incomplete contract 3. gain the advanced knowledge of practical aspects of process costing system followed in different organizations having different processes in the industry 4. understand the cost for various level of production, the desirable volume of production, the profit at various level of production, the differences between sales, revenue and variable cost 5. Calculate advanced variances, Interpret variances, analysis and evaluation of past performance using the results of variance analysis. Use of variances analysis to assess how future performance of an organization can be improved through cost control technique <p>Understand the emerging concepts of Cost Accounting.</p>
T.Y.B.Com Sem VI (NON-NEP 2023-24)	Direct & Indirect Taxation – II	

		<p>Learners will be able to:</p> <ol style="list-style-type: none"> 1. Understand various terms related to Goods and Service tax (GST). 2. Determine the time, place and value of supply. 3. Know the contents and format for various documents like tax invoice, bill of supply, debit note, credit note etc. 4. Compute the amount of CGST, SGST and IGST payable after considering the eligible input tax credit. <p>Determine whether a person is required to obtain registration under GST law</p>
Commerce		
Class/ Semester	Paper/ Title	Course Outcome
F. Y. B. Com (Sem-I) Commerce I	Introduction to Business	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Understand the concept, nature of business and the recent trends and strategy alternatives in business. 2. Comprehend the changes and constituents of the business environment, and its impact on business.
FYBCOM (Sem-I) Open/ General Electives (OE/ GE)	Entrepreneurship Management	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Understand the concepts, types and skills required to be a successful entrepreneur and support available for Entrepreneurship development 2. Acquaint students with importance of innovation in

		<p>entrepreneurship</p> <p>3. Gain knowledge about developing a business idea and elements of a Business Plan.</p>
F.Y. B. Com (Sem-II) Commerce II	Service Sector	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Understand the concept, nature, significance, marketing mix and service strategies 2. Acquaint the recent trends in services and present status of E-commerce in India.
F. Y. B. COM. Open/ General Electives (OE/ GE)	Financial Literacy	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Understand various concepts in Personal Finance. 2. Acquire knowledge of different investment avenues. 3. Acquaint the learner with the management of loans and debts. 4. Understand the importance and schemes of retirement planning.
FYBCOM MINOR	INDIAN REGULATORY FRAMEWORK	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Analyse the Sources of Indian Law and examine the origins of law in India and evaluate the relevance of legal frameworks to modern Indian society. 2. Define law and identify different sources of law, kinds of laws and various legal concepts. 3. Apply legal concepts and maxims to analyse and solve practical problems related to civil wrongs, criminal offenses, and legal remedies. 4. Explain and identify legal terminology in legal texts and judgments.

Economics Department 2022-23

Class/ Semester F. Y. B. Com Paper - I Sem I (MAJOR 3)	Business Economics-I	<ol style="list-style-type: none">1. Understand Scope and Importance of Business Economics.2. Analyze consumer behavior through demand and supply.3. Understand the demand forecasting with numerical examples on trend analysis and simple linear regression.4. Demonstrate and undertake production analysis.5. Demonstrate and undertake cost and revenue analysis.
F. Y. B. Com Paper - II Sem II (MAJOR 3)	Business Economics-II	<ol style="list-style-type: none">1. Use the concepts of Market, Competition and demand curve in different markets.2. Identify and appraise various Markets on the basis of competition.3. Identify and appraise various models of how markets organization, and how price and output decisions are taken for maximizing profit.4. Identify use of different pricing strategies in business applications.5. Understands how to Evaluate capital projects.6. Students will understand and demonstrate core knowledge in Business Economics.
S.Y.B.COM SEM III	Business Economics-III	<ol style="list-style-type: none">1. Familiarize basic concepts related to macroeconomics and its applications.2. Understand the macro-economic theories and its relevance.3. Provide a clear explanation of many aspects of aggregate economic variables to inspire a consistent way of thinking about key macroeconomic phenomena.4. Understand the working of the economy as a whole.

S.Y.B.COM SEM IV	Business Economics-IV	<ol style="list-style-type: none"> 1. To strengthen the awareness about the basic economic issues like inflation, unemployment,etc. 2. Have a better understanding of Supply of money & demand for money, relationship between Money & Prices & the various theories related to that. 3. To understand the concept of Goods market and money market equilibrium.
S.Y.B.COM SEM III/ OE	Fundamentals of Investment-I	<ol style="list-style-type: none"> 1. Understand Scope and Importance of Investment analysis. 2. Demonstrate an understanding, usage and application of investment decisions. 3. Understand the differences between Investment,Speculation, Investment and Gambling. 4. Understand the non-marketable investment instruments and marketable instruments.
S.Y.B.COM SEM IV/OE	Basics of Portfolio Management-I	<ol style="list-style-type: none"> 1. To understand the principles of portfolio management and investment analysis. 2. Students will learn how to construct and manage investment portfolios effectively to achieve financial objectives. 3. To learn techniques for asset allocation and portfolio construction. 4. To learn techniques for fundamental and technical analysis.
T.Y.B.COM SEM V	Business Economics-V	<ul style="list-style-type: none"> ● Understand the macro economics overview of the Indian economy. ● Understand the sectoral composition of the Indian Economy. ● Understand the problems and prospects of the different sectors of the Indian Economy. ● Be oriented with the broad features of different sectors, financial markets and the recent developments in the economy.
T.Y.B.COM SEM VI	Business Economics-VI	<ul style="list-style-type: none"> ● Upon completion of the course the students will be well acquainted with the fundamentals of International Economics. ● Students will be able to understand the trade theories and determinants of trade which helps them to analyze the international trade policies.

		<ul style="list-style-type: none"> • Students will be able to understand the role of various international institutions and trade blocks and their approaches in framing the policies for trade.. • It enables them in-depth study of Balance of payment and foreign exchange market.
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Mathematics		
Class/ Semester	Paper/ Title	Course Outcome
FYBSC (MATHS SEC) SEM I	Functions Using Geogebra and Basic Algorithms	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Understand the fundamental concepts of functions, including domain, co-domain, and range. 2. Represent and analyze function graphically using Geogebra/desmos. 3. Implement basic algorithms using pseudocode
FYBSC (MATHS OE) SEM I/II	Math in Real World	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Appreciate and value the role of Mathematics in various fields. 2. Students will be able to explain the fundamental principles of cryptography and understand their mathematical foundations. 3. Students will learn some mathematical modeling techniques. 4. Students will recognize and identify different types of symmetry. 5. Students will gain an appreciation for the role of mathematics in art and music.
FYBSC (MATHS MINOR) SEM II	Set Theory and Basic Counting	<p>After completion of this course learner will be able to:</p> <ul style="list-style-type: none"> • Understand the fundamental concepts of set theory, including Cantor's concept of a set, operations for sets, countable and uncountable sets, relations, equivalence relations, functions, and operations for collections of sets. • Apply counting principles, including

		<p>permutations, combinations, and the Pigeonhole Principle, to solve various counting problems.</p> <ul style="list-style-type: none"> • Analyze and apply concepts related to well-ordered sets, ordinal numbers, and cardinal arithmetic. • Recognize and understand the significance of foundational principles such as the Axiom of Choice, the Well-ordering Theorem, and Zorn's Lemma. • Demonstrate proficiency in constructing and evaluating proofs and definitions using induction. • Develop problem-solving skills and the ability to apply mathematical reasoning to solve problems in set theory and combinatorics.
FYBSC (MATHS SEC) SEM II	Basic skills in statistics	<p>The objective of this course is to:</p> <ol style="list-style-type: none"> 1. Provide students an understanding of descriptive and inferential statistics 2. Enable them to explore and make decisions from data using statistical methods
FYBCOM (VSC) SEM I	Basic Quantitative mathematics I	<p>On successful completion of this course, students will be able to:</p> <ul style="list-style-type: none"> • Identify and extend number patterns in series using various strategies. • Recognize and analyze arithmetic and geometric progressions. • Perform basic arithmetic operations and apply order of operations to solve complex mathematical expressions. • Solve problems involving percentage. • Manipulate algebraic expressions by simplifying, expanding, and factoring. • Solve linear equations and inequalities. • Apply algebraic concepts to solve word problems and real-life scenarios
FYBCOM (SEC) SEM I	Reasoning Ability and Data Interpretation	<p>On successful completion of this course, students will be able to:</p> <ul style="list-style-type: none"> • Analyze and solve alphabet-based puzzles. • Identify number patterns and sequences in series. • Apply visual reasoning to recognize patterns, symmetries, and rotations. • Analyze and solve questions based on odd

		<p>figures.</p> <ul style="list-style-type: none"> ● Identify and establish relationships between pairs of words or figures. ● Apply deductive reasoning to evaluate statements and draw conclusions. ● Interpret, represent and analyze data presented in tabular form. ● Solve questions related to data distribution and comparisons using pie charts, bar charts, line graphs etc
FYBCOM (VSC) SEM II	Basic Quantitative mathematics II	<p>On successful completion of this course, students will be able to:</p> <ul style="list-style-type: none"> ● Understand and apply the concept of ratio and proportion to solve problems involving scaling, mixing, and comparison. ● Interpret and analyze data presented in the form of ratios and proportions. ● Apply partnership principles to determine profit-sharing, investment ratios, and distribution of resources. ● Understand the concepts of profit and loss and their applications in business and commerce. ● Apply profit and loss principles to calculate selling price, cost price, and profit margins ● Understand the concepts of simple and compound interest and their applications in finance and investments using problems.
FYBCOM (SEC) SEM II	Discrete Math and Reasoning Ability	<p>On successful completion of this course, students will be able to:</p> <ul style="list-style-type: none"> ● Solve classification, number, ranking, time sequence, blood relation based questions and puzzles. ● Apply logical reasoning to decipher patterns and rules in coded messages. ● Solve cause and effect-based questions and make logical inferences. ● Apply counting principles to solve problems involving arrangements and selections. ● Understand the fundamental concepts of probability and calculate probabilities of events using basic principles and formulas.

FYBCOM (MINOR) SEM II	Mathematics of Finance	<p>On successful completion of this course, students will be able to:</p> <ul style="list-style-type: none"> ● Understand the concept of annuity and its different types (ordinary annuity, annuity due, perpetuity). ● Calculate the present value, future value, and periodic payments of annuities. ● Apply annuity concepts to analyze and solve financial problems related to loans, mortgages, and retirement savings. ● Understand the basics of shares and mutual funds as investment vehicles. ● Calculate and analyze returns on investment, including capital gains, dividends, and distributions. ● Evaluate the performance of shares and mutual funds using mathematical tools and indicators.
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SFC Unaided Section		
BAMMC Program Specific Outcomes (PSO's): Program Outcomes (PO):		
Class/ Paper/ Semester	Title	Course Outcome
<p>Banking and Insurance Program Specific Outcomes (PSO's): On completion of B. Com (Banking & Insurance) program, learners will be enriched with knowledge and be able to</p> <p>PSO1 The learners will get adequate exposure to the operational environment in the field of banking, insurance, and other related financial services.</p> <p>PSO2 The learners are trained to acquire entrepreneurship skills and competencies for handling various financial activities associated with the banking and insurance sector.</p> <p>Program Outcomes (PO): A learner completing B.Com. (Banking & Insurance) will be able to:</p>		

PO1	The Course aims to inculcate and imbibe theoretical and practical skills in fie Accounting, Banking, Insurance and Taxation.	
PO2	The learners will be able to employ the knowledge on banking and insurance to the requirements of the BFSI sector and to identify the solutions for complex prob.	
Class/ Paper/ Semester	Title	Course Outcome
FYBBI SEMESTER I Course: Major- I	Environment & Management of Financial Services	<ol style="list-style-type: none"> 1. It creates awareness among the learners towards current, serious environmental issues in the financial market. 2. It also creates awareness about services in the financial sector. 3. Students will get to know about insurance companies, its working and its origin and different insurance available in the market.
FYBBI SEMESTER I Course: Major II	Basics of Accounting	<ol style="list-style-type: none"> 1. Students will be able to develop a logical and practical approach in the area of accounting. 2. Students will understand the applicability of accounting by studying the topics like accounting standards and hire purchase. 3. Students will be able to enhance their ability in understanding and absorbing the various topics and courses which will follow.
FYBBI SEMESTER I Course: Vocational/Skill Enhancement course	Computer Skills	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. To acquire skills to apply E-banking and TechnoManagement in real-world scenarios, enhancing decision-making and contributions to banking and technology. 2. To prepare participants for banking tech, E-Commerce, and cybersecurity and to empower them for improved customer service and informed decisions to counter cyber threats. 3. To gain proficiency in utilizing Word and PowerPoint across a spectrum of professional, educational, and personal scenarios. 4. To efficiently perform and manage diverse data-related functions within worksheets and workbooks.

<p>FYBBI SEMESTER I</p> <p>Course: Open Electives (OE)</p>	<p>Fundamentals of Banking</p>	<p>On completion of the course, students-</p> <ol style="list-style-type: none"> 1. Will be equipped with an understanding of the different aspects of Banking. 2. Will be able to engage with one of the fastest growing sectors of the economy. 3. Will kindle interest towards a deeper understanding of Banking 4. Will enable skill enhancement 5. Will be able to explore various job opportunities.
<p>FYBBI SEMESTER I</p> <p>Course: Open Electives (OE)</p>	<p>Travel & Tourism</p>	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Describe the historical development and key components of the travel and tourism industry and various career opportunities in travel and tourism. 2. Identify and analyze the social and economic impacts of tourism. 3. Apply destination management and marketing strategies to promote tourism. 4. Develop basic tourism planning skills and design itineraries for different types of travelers.
<p>FYBBI SEMESTER I</p> <p>Course: Indian Knowledge System (IKS)</p>	<p>Indian Philosophy and Ethics in Banking & Insurance</p>	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Develop a comprehensive understanding of the major concepts, theories, and schools of thought in Indian philosophy. 2. Recognize and understand the ethical issues and challenges specific to the banking and insurance sector 3. Reflect on one's own values, beliefs, and worldview in light of Indian philosophical perspectives, fostering personal growth and self-awareness. 4. Understand and adhere to legal and regulatory requirements in banking and insurance, ensuring ethical conduct.
<p>FYBBI SEMESTER I</p> <p>Course: AEC</p>	<p>Business Communication - I</p>	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Improve proficiency on English language. 2. Understand and interpret any text they are

		<p>reading from different perspectives.</p> <ol style="list-style-type: none"> Use the concepts of reading and understanding various forms of communication and be able to become excellent communicators... Develop the concept of summarizing research paragraphs. Understand the concepts of effective oral, listening and writing skills Understand the importance of communication in management and be able to increase managerial efficiency.
<p>FYBBI SEMESTER I</p> <p>Course: Value Added Course</p>	<p>Environmental Science</p>	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> Inculcate awareness on various dimensions of the environment through knowledge, skill, critical thinking and problem-solving. Develop a critical understanding of the environmental issues of concern.
<p>FYBBI SEMESTER II</p> <p>Major</p>	<p>Principles & Practices of Banking & Insurance</p>	<p>After completion of this course learner will be able to:</p> <ul style="list-style-type: none"> Students will be able to define to the origin of banking, scope and functioning of it Students will understand the types of accounts and its banking regulations, working Students will be able to enhance their ability in understanding and absorbing the various topics and courses which will follow in the following semesters.
<p>FYBBI SEMESTER II</p> <p>Major</p>	<p>Accounting for Banking & Insurance</p>	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> Students will be able to develop a logical and practical approach in the area of accounting. Students will understand the applicability of accounting by studying the topics like shares and debentures. Students will be able to enhance their ability in understanding and absorbing the various topics and courses which will follow in the following semesters.

<p>FYBBI SEMESTER II Minor</p>	<p>Macro Economics</p>	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Students get an overview of the economic functioning of a country and the factors that affect them. 2. Students understand the policy decisions that are implemented in the economy. 3. Students understand the terms and condition of international trade.
<p>FYBBI SEMESTER II Course: Vocational/Skill Enhancement course</p>	<p>Mathematical and Statistical skills</p>	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Apply the knowledge of mathematics and statistics in solving business problems. 2. Understand the importance of Statistics in various fields. 3. Understand the importance of data and also will be able to convert the complex data into the simplest form with the help of various graphical methods. 4. Apply basic statistical methods in various decision making fields.
<p>FYBBI SEMESTER II Course: AEC</p>	<p>Business Communication -II</p>	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Develop confidence in public speaking 2. Practice writing as a process of motivated inquiry, and write using quotations, paraphrase, allusions and summary. 3. Understand the concepts of effective oral, listening and writing skills. 4. Understand the importance of communication in management and be able to increase managerial efficiency.
<p>FYBBI SEMESTER II Course: Value Added Course</p>	<p>Indian Constitution</p>	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. To analyze and understand the Philosophy of the Constitution as set out in the Preamble 2. To ensure critical and active participation in the Indian democratic system. 3. To get an idea about the basis of Human Rights and how it should be used.

<p>SYBBI SEMESTER III</p> <p>Major / Core Course- I</p>	<p>Fundamentals of Banking</p>	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Gain knowledge about Micro Finance and Financial Inclusion. 2. Understand the concept of banking, types of banks, crisis faced by banks and its regulatory framework along with Basel accord. 3. Understand the need of Customer Relationship Management and its process in banking. 4. Know about latest technology used in banking.
<p>SYBBI SEMESTER III</p> <p>Major / Core Course- II</p>	<p>Financial Management - I</p>	<p>After completion of this course learner will be able to:</p> <ul style="list-style-type: none"> ● Learn about investment decisions and financial planning ● Ensure safety of investments by proper planning relating to various finance related activity. ● Understand optimum fund utilization
<p>SYBBI SEMESTER III</p> <p>Vocational & Skill Enhancement Courses (VSEC)</p>	<p>Mutual Fund Management</p>	<p>After completion of this course learner will be able to:</p> <ul style="list-style-type: none"> ● understand basic concepts as well as its Regulatory authorities of Mutual Fund ● Explain types of Mutual funds and able to select the best mutual fund scheme as per the objectives of investor. ● calculate the Return on various mutual fund scheme
<p>SYBBI SEMESTER III</p> <p>OPEN ELECTIVE</p>	<p>An Introduction to Insurance Sector</p>	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. To understand the terminologies of insurance, regulatory and traditional and non-traditional plans. 2. Students will be able to explain the role of life and non-life policies
<p>SYBBI SEMESTER III</p> <p>MINOR</p>	<p>Management Accounting</p>	<p>After completion of this course learner will be able to:</p>

		<ul style="list-style-type: none"> • This course will enable the students to combine practical & theoretical knowledge of Management accounting. • The course will provide the knowledge to the students about working capital financing. • The students of this course will be active learners & develop awareness of emerging trends in management accounting.
<p>SYBBI SEMESTER IV</p> <p>Major / Core Course- I</p>	Fundamentals of Insurance	<p>After completion of this course learner will be able to:</p> <ul style="list-style-type: none"> • To understand the terminologies of insurance and various traditional and non-traditional plans of LIC and different companies, they will be able to understand various job opportunities available in insurance industry • Students will be able to distinguish various policies of different companies. • Students will be able to explain the role of life, health, motor, and home insurance. • Students may be able to analyse the policies of various insurance companies and select a best policy from it
<p>SYBBI SEMESTER IV</p> <p>Major / Core Course- II</p>	Financial Management - II	<p>After completion of this course learner will be able to:</p> <ul style="list-style-type: none"> • Learners will be able to understand various concepts relating to cash management; receivable management. • Learners will be able to apply various budgeting techniques in decision making policy of company. • Learners will be able to learn and apply various financial policy and strategy
<p>SYBBI SEMESTER IV</p> <p>Vocational Skill Course & Skill Enhancement Courses (VSEC)</p>	Business Law	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Learners gain an understanding of negotiable instrument act and applications in real life situations 2. Learners will be able to understand the

		functions of the depository system.
SYBBI SEMESTER IV Minor	Cost Accounting	After completion of this course learner will be able to: <ul style="list-style-type: none"> • The learners will be able to understand basic components of cost accounting. • The learners will be able to understand Cost Classification for Stock Valuation, Profit measurement and Elements of cost. • It will help the learners to understand the concepts of Marginal costing • Learners will be able to understand the concept of Standard Costing with regards to Material and Labour
SYBBI SEMESTER IV		
TYBBI SEMESTER V	International Banking and Finance	On successful completion of this course students will be able to: LO1 To make the student understand the fundamental aspect of international finance. LO2 To study international banking operations. LO3 To make the students aware of the international foreign exchange market operation. LO4 To make the student get the knowledge on risk management. LO5 To make the student understand about the background of international capital market.
TYBBI SEMESTER V	Auditing	On successful completion of this course students will be able to: LO1: This course will enable the students to summarise and explain the principles and procedures of Auditing. LO2: The students of this course will be able to categorise and distinguish between audit processes of Banking Companies and Insurance Companies.
TYBBI SEMESTER V	Financial Reporting and Analysis	<ul style="list-style-type: none"> • Prepare Financial Statements of Banking companies practically . • Prepare Financial Statements of Insurance companies i.e (LIC and GIC) . • Prepare Financial statements of corporations as well as Cash Flow Statements

		<ul style="list-style-type: none"> • Understand the ethical practices followed as an accountant. • Know the importance of IFRS
TYBBI SEMESTER V	Financial Services Management	<ul style="list-style-type: none"> • This helps students in making investment decisions considering various products and services, understanding the concepts of factoring, forfaiting, issue management, and various innovative sources of finance. • Gain detailed knowledge about mutual fund, factoring and forfeiting. • Understand Securitization of Debt and Derivatives. • Learn Housing Finance and Consumer Finance. • Learn Depositories, its functioning and pledge.
TYBBI SEMESTER V	Research Methodology	<ul style="list-style-type: none"> • Understand the importance of research in social sciences. • Implement various methods of data collection in future while doing research. • Do data analysis and interpretation of small projects or topics by using simple statistical tools i.e mean , median etc. • Make them aware about the availability of various advanced tools of research . • Make research reports on small research projects / research papers.
TYBBI SEMESTER VI	Central Banking	<p>On successful completion of this course students will be able to:</p> <p>LO1. This course studies the purpose and the functions of central banks and monetary policies and how they have evolved over time.</p> <p>LO2. Students are introduced to the tools of monetary policy and to the rules that central banks follow, with special attention to inflation targets.</p>
TYBBI SEMESTER VI	Security Analysis & Portfolio Management	<p>On successful completion of this course students will be able to:</p> <p>LO1: Understand the necessary precautions while investing in any avenues and will be able to measure the risk and return in investment.</p> <p>LO2: Calculate and compare the returns in bonds.</p> <p>LO3: Measure the performance of company with the</p>

		help of fundamental analysis techniques. LO4: State and compare the fundamental analysis and technical analysis.
TYBBI SEMESTER VI	Indirect Tax: GST	
TYBBI SEMESTER VI	Turnaround Management	LO1: Understand importance of business and how to grow business. LO2: State the reasons of sickness in industries and role of various stakeholders in overcoming the sickness of industries. LO3: Analyse which technique is suitable for industries in overcoming the sickness from it. LO4: Explain the leadership qualities required to turnaround today's dynamic business .
TYBBI SEMESTER VI	Human Resource Management	
TYBBI SEMESTER VI	Project Work in Banking & Insurance	On successful completion of this course students will be able to understand: LO1 It will help students to understand the applicability of concepts to the realistic world. LO2 It will inculcate in the mindset of students about a new arena to explore and analyse them. LO3 With this indulge the habit of Research in Students.

BMS

PSO:

Program Specific Outcomes (PSO's):

On completion of B.M.S program, learners will be enriched with knowledge and be able to:

PSO1

Have a strong foundation in management theories, principles, and practices, enabling them to understand the complexities of the business environment

PSO2

Develop analytical and critical thinking skills to identify and address business challenges, make informed decisions, and devise effective solutions.

PSO3

Be proficient in verbal and written communication, enabling them to convey complex ideas, negotiate, and interact effectively

PSO4

Acquire leadership skills to motivate and guide teams, foster collaboration, and drive organizational success

Program Outcomes (PO):

A learner completing B.M.S. will be able to:

PO1: Be well versed in national as well as international trends.

PO2: Pursue higher studies in the field of management such as Business Administration, Marketing Management, Human Resource Management, Financial Management, Material Management, Media Studies etc.

PO3: Become capable of developing a positive attitude towards lifelong learning and research.

PO4: Adequately trained to become entrepreneurs in different fields.

PO5: Acquire excellent communication skills and soft skills.

PO6: Acquire skills to initiate and develop business models.

PO7: Become a responsible citizen with ethical/ moral values and good behaviour.

Class/ Paper/ Semester	Title	Course Outcome
F. Y. B.M.S SEMESTER I Major / Core Course- I	Principles of Management	1. After completion of this course learner will be able to: 2. 1. Understand the importance of principles of management. 2. Create awareness among students about the functions and responsibilities of managers in corporate. 3. 3. Provide them tools and techniques to be used in the performance of the managerial functions. 4. 4. Enable them to analyze and understand the environment of the organization.
F. Y. B.M.S SEMESTER I Major / Core Course- II	1. Introduction to Business Economics	1. After completion of this course learner will be able to: 2. 1. To identify and explain economic concepts and theories related to economy and economic functioning 3. 2. To integrate theoretical knowledge with quantitative and qualitative evidence in order explain past economic events and predict the future 4. 3. To evaluate the consequences of economic activities 5. 4. To evaluate the functioning of markets, market structures and pricing strategies

<p>F. Y. B.M.S SEMESTER I</p> <p>Vocational Skill Enhancement Courses (VSEC)</p>	<p>Business Communication – I</p>	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Improve proficiency on English language 2. Understand and interpret any text they are reading from different perspectives. 3. Use the concepts of reading and understanding various forms of communication and be able to become excellent communicators. 4. Develop the concept of summarizing research paragraphs. 5. Understand the concepts of effective oral, listening and writing skills 6. Understand the importance of communication in management and be able to increase managerial efficiency
<p>F. Y. B.M.S SEMESTER I</p> <p>Open/ General Electives (OE/ GE)</p>	<p>Introduction to Advertising</p>	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Understand the role and impact of advertising in the business world and its influence on consumer behaviour 2. Apply advertising strategies and techniques to effectively engage target audiences and achieve marketing objectives. 3. Critically evaluate and analyse advertising campaigns, considering their effectiveness, creativity, and alignment with brand messaging 4. Demonstrate an understanding of the creative process in advertising, including market research, target audience analysis, and message development 5. Identify and address ethical considerations in advertising and communicate effectively within the context of the advertising industry
<p>F. Y. B.M.S SEMESTER I</p> <p>Open/ General Electives (OE/ GE)</p>	<p>Digital Marketing</p>	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Understand the fundamental concepts and principles of digital marketing, including the role of digital channels and strategies in modern marketing. 2. Apply digital marketing techniques, such as SEO, social media marketing, content creation, email campaigns, and digital advertising, to effectively reach and engage target audiences.

		<p>3. Analyze and evaluate the performance of digital marketing campaigns using relevant tools and analytics, and make data-driven decisions to optimize marketing efforts</p> <p>4. Develop comprehensive digital marketing strategies, considering market research, target audience segmentation, and competitive analysis.</p> <p>5. Demonstrate an understanding of ethical considerations in digital marketing, including privacy, transparency, and responsible practices in online advertising and data usage.</p>
<p>F. Y. B.M.S SEMESTER I</p> <p>Ability Enhancement Courses (AEC)</p>	<p>Business Communication – I</p>	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Improve proficiency on English language 2. Understand and interpret any text they are reading from different perspectives. 3. Use the concepts of reading and understanding various forms of communication and be able to become excellent communicators. 4. Develop the concept of summarizing research paragraphs. 5. Understand the concepts of effective oral, listening and writing skills 6. Understand the importance of communication in management and be able to increase managerial efficiency
<p>F. Y. B.M.S SEMESTER I</p> <p>Indian Knowledge System</p>	<p>Indian Management Thoughts and Practices</p>	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. To examine the numerous theories, tenets, and methods that have influenced Indian management thoughts 2. To familiarize students with the key concepts and theories of Indian management thoughts and practices. 3. To analyze the contributions of ancient Indian scholars and practitioners to management thinking. 4. To foster analytical and critical thinking abilities and apply Indian management principles in real-world settings.

<p>F. Y. B.M.S SEMESTER I</p> <p>Value Enhancement Course</p>	<p>Environmental Science</p>	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Be aware on various dimensions of the environment through knowledge, skill, critical thinking and problem-solving. 2. Develop a critical understanding of the environmental issues of concern
<p>F. Y. B.M.S SEMESTER II</p> <p>Major / Core Course- I</p>	<p>Principles of Marketing</p>	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Understand the basic marketing concepts. 2. Develop a comprehensive understanding of the subject and will be able to apply course concepts to real or imaginary products. 3. Appraise the opportunities and threats of conducting business in a world with fewer barriers
<p>F. Y. B.M.S SEMESTER II</p> <p>Major / Core Course- II</p>	<p>Basics of Financial Services</p>	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Understand the operations and structure of different financial institutions. 2. Describe various types of insurance contracts and their uses in financial services. 3. Describe clients' dispositions toward risk and identify appropriate strategies to pursue. 4. Identify the factors that affect interest rates and evaluate relationships between the prices of securities and interest rates
<p>F. Y. B.M.S SEMESTER II</p> <p>Minor Course</p>	<p>Business Law</p>	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. To get an Overall Working Knowledge of Indian Judicial System 2. To understand the functioning of courts and their jurisdiction 3. To understand the importance of various acts that are important aspects to conduct business in India. 4. To understand appropriate and professional ethical behavior.

<p>F. Y. B.M.S SEMESTER II</p> <p>Vocational Skill Enhancement Courses (VSEC)</p>	<p>Introduction to Financial Accounting</p>	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. To familiarize the students with the basic concepts, principles and techniques of preparing and presenting the accounts for users of accounting information 2. To understand new developments in Accounting Standards 3. To enable the students to understand the information contained in the published financial statements and other organisations. 4. To create awareness about accounting in computerized environment
<p>F. Y. B.M.S SEMESTER II</p> <p>Open/ General Electives (OE/ GE)</p>	<p>Introduction to Advertising</p>	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Understand the role and impact of advertising in the business world and its influence on consumer behaviour 2. Apply advertising strategies and techniques to effectively engage target audiences and achieve marketing objectives. 3. Critically evaluate and analyse advertising campaigns, considering their effectiveness, creativity, and alignment with brand messaging 4. Demonstrate an understanding of the creative process in advertising, including market research, target audience analysis, and message development 5. Identify and address ethical considerations in advertising and communicate effectively within the context of the advertising industry
<p>F. Y. B.M.S SEMESTER II</p> <p>Open/ General Electives (OE/ GE)</p>	<p>Digital Marketing</p>	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Understand the fundamental concepts and principles of digital marketing, including the role of digital channels and strategies in modern marketing. 2. Apply digital marketing techniques, such as SEO, social media marketing, content creation, email campaigns, and digital advertising, to effectively reach and engage target audiences.

		<p>3. Analyze and evaluate the performance of digital marketing campaigns using relevant tools and analytics, and make data-driven decisions to optimize marketing efforts</p> <p>4. Develop comprehensive digital marketing strategies, considering market research, target audience segmentation, and competitive analysis.</p> <p>5. Demonstrate an understanding of ethical considerations in digital marketing, including privacy, transparency, and responsible practices in online advertising and data usage.</p>
<p>F. Y. B.M.S SEMESTER II</p> <p>Ability Enhancement Courses (AEC)</p>	<p>Business Communication - II</p>	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Develop confidence in public speaking 2. Practice writing as a process of motivated inquiry, and write using quotations, paraphrase, allusions and summary. 3. Understand the concepts of effective oral, listening and writing skills. 4. Understand the importance of communication in management and be able to increase managerial efficiency.
<p>F. Y. B.M.S SEMESTER II</p> <p>Value Enhancement Course</p>	<p>Indian Constitution</p>	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1 To analyze and understand the Philosophy of the Constitution as set out in the Preamble 2 To ensure critical and active participation in the Indian democratic system. 3 To get an idea about the basis of Human Rights and how it should be used.
<p>S. Y. B.M.S. SEMESTER III</p>	<p>Consumer Behaviour</p>	<ol style="list-style-type: none"> 1.To explain the concept of Consumer Behaviour & describe Consumer research process in detail 2.To evaluate the factors affecting consumer behaviour in detail. 3.To analyze the consumer decision process. 4.To assess the impact of a consumer's motivation, personality on the buying behaviour.
<p>S. Y. B.M.S. SEMESTER III</p>	<p>Advertising</p>	<ol style="list-style-type: none"> 1.To explain the various concepts of advertising. 2.To acquire the capability for advertising skills and content creation.

		<p>3. Understand applying of related skills</p> <p>4. Examine the scope for making advertising a future.</p>
S. Y. B.M.S. SEMESTER III	Accounting for Managerial Decisions	<p>1.To understand basic accounting fundamentals and prepare Vertical Financial Statements as per Indian Companies Act, 2013.</p> <p>2.To acquire financial analysis skills and learn to prepare Cash Flow Statement, Estimated Working Capital Statement and Receivables Management Statement.</p> <p>3.To analyze ratios and core concepts of business finance and its importance in managing a business.</p> <p>4.To recognize various ratios used in financial statements analysis by a stakeholder in the decision making process about an entity.</p>
S. Y. B.M.S. SEMESTER III	Entrepreneurship and Business Plan Development	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. To get motivated and develop an entrepreneurial mind-set. 2. To acquire the entrepreneurial skills needed to establish and successfully run the enterprise. 3. To determine and develop the steps necessary to design a business plan. 4. To understand the requirements for starting and operating a business venture.
S. Y. B.M.S. SEMESTER III	Computing Skills	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1 To provide an understanding for the student on basic statistical and financial mathematical concepts, tools & formulas. 2 To understand the importance of statistics and mathematics in real life situations. 3 To understand its application in relation to business. 4 To explain the applications through MS Excel for better interpretations of the results.
S. Y. B.M.S. SEMESTER III	Production & Total Quality Management	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. To develop the basic management decisions related to production and quality management. 2. To know about Material Management, various techniques Inventory Management and

		<p>numerical sums related to EOQ, Lead Time, Reorder Level and Safety of Stock.</p> <ol style="list-style-type: none"> 3. To recognize the Basics of Productivity and TQM and various Product and Service Quality, SERVQUAL. 4. To identify ISO 9000, ISO 1400, QS9000, Malcolm Baldrige, National Quality Award and Deming's Application Prize.
S. Y. B.M.S. SEMESTER IV	Integrated Marketing Communication	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. To learn about the nature, purpose and complex construction in the planning and execution of an effective Integrated Marketing Communication (IMC) program 2. To will identify various aspects of Advertising and Sales promotion and will understand the various tools of IMC and the importance of coordinating them for an effective marketing communication program 3. To identify elements of IMC including Advertising, Sales Promotion, Direct Marketing, PR, Public relation, Direct marketing and digital marketing Learners will evaluate marketing communication tools and beware of ethics in IMC
S. Y. B.M.S. SEMESTER IV	Event Marketing	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. To have a first hand experience of Marketing an event 2. To become aware about the targeting, segmentation and positioning in the context of event marketing 3. To become knowledgeable about the latest trends in various categories of events 4. To identify the type of event and its requisites
S. Y. B.M.S. SEMESTER IV	Business Economics II	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1.To absorb knowledge about macroeconomics, data and theory. 2. To study about money inflation, monetary policy, fiscal policy and issues of international trade.

		<p>3. To identify the instruments of fiscal policy and union budget.</p> <p>4. To comprehend foreign investments, the balance of payments and international trade.</p>
S. Y. B.M.S. SEMESTER IV	Business Research Methods	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1.To get the knowledge of Research Methods in Business 2. To develop analytical abilities and research skills 3. To know the importance of research, data and data analysis 4.To understand the importance of ethics in research
S. Y. B.M.S. SEMESTER IV	Strategic Management	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. To understand strategic management and its major components. 2. To acquire in detail the strategy formulation and implementation at business and corporate level. 3. To analyze and understand the problems and challenges faced by top management. 4. To understand how to create a competitive and corporate advantage.
S. Y. B.M.S. SEMESTER IV	Advanced Computing Skills	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1.To understand managerial decision-making and to develop perceptive of major functional area of MIS 2. To learn the concept of ERP and its implementation. 3. To learn Concepts of Data warehousing and Data mining. 4. To learn outsourcing concepts. BPO/KPO industries.
T. Y. B.M.S. SEMESTER V	Services Marketing	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1.To understand distinctive features of services and key elements in services marketing 2.To get insight into ways to improve service quality and productivity. 3. To understand marketing of different services in Indian context

T. Y. B.M.S. SEMESTER V	E-Commerce & Digital Marketing	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1.To understand increasing significance of E-Commerce and its applications in Business and Various Sectors 2.To provide an insight on Digital Marketing activities on various Social Media platforms and its emerging significance in Business 3. To understand Latest Trends and Practices in E-Commerce and Digital Marketing, along with its Challenges and Opportunities for an Organisation
T. Y. B.M.S. SEMESTER V	Customer Relationship Management	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1.To understand concept of Customer Relationship Management (CRM) and implementation of Customer Relationship Management 2.To provide insight into CRM marketing initiatives, customer service and designing CRM strategy 3. To understand new trends in CRM, challenges and opportunities for organizations
T. Y. B.M.S. SEMESTER V	Logistics & Supply Chain Management	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1.To provide students with basic understanding of concepts of logistics and supply chain management 2.To introduce students to the key activities performed by the logistics function. 3. To provide an insight in to the nature of supply chain, its functions and supply chain systems 4. To understand global trends in logistics and supply chain management
T. Y. B.M.S. SEMESTER V	Corporate Communication & Public Relations	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1.To provide the students with basic understanding of the concepts of corporate communication and public relations 2.To introduce the various elements of corporate communication and consider their roles in managing organizations 3.To examine how various elements of corporate communication must be coordinated to communicate effectively

		4.To develop critical understanding of the different practices associated with corporate communication
T. Y. B.M.S. SEMESTER VI	Brand Management	After completion of this course learner will be able to: 1.To understand the meaning and significance of Brand Management 2.To Know how to build, sustain and grow brands 3. To know the various sources of brand equity
T. Y. B.M.S. SEMESTER VI	Retail Management	After completion of this course learner will be able to: 1.To familiarize the students with retail management concepts and operations 2.To provide understanding of retail management and types of retailers 3. To develop an understanding of retail management terminology including Merchandize management, store management and retail strategy 4. To acquaint the students with legal and ethical aspects of retail management 4. To create awareness about emerging trends in retail management
T. Y. B.M.S. SEMESTER VI	International Marketing	After completion of this course learner will be able to: 1.To understand International Marketing, its Advantages and Challenges 2.To provide an insight on the dynamics of the International Marketing Environment. 3. To understand the relevance of International Marketing Mix decisions and recent developments in Global Market
T. Y. B.M.S. SEMESTER VI	Operations Research	After completion of this course learner will be able to: 1.To help students to understand operations research methodologies 2.To help students to solve various problems practically 3. To make students proficient in case analysis and interpretation
BFM Program Specific Outcomes (PSO's): On completion of B.Com.(Financial Markets) program, learners will be enriched with knowledge and be able to		

- PSO1: Understand the functions of financial markets and intermediary institutions.
 PSO2: Understand the concept of Stock Market Index and its calculation.
 PSO3: Know the basics of Currency, Fixed Income Securities and Mutual Funds.
 PSO4: Master the concept of Time Value of Money.
 PSO5: Understand the selection of portfolio of securities that maximizes return while minimizing risk.
 PSO6: Explain how derivatives products can be used in portfolio management.

Program Outcomes (PO):

A learner completing B.Com.(Financial Markets) will be able to:

- PO1: To develop basic economic analysis skills in finance for making reasonable investment decisions and conduct basic research in finance.
 PO2 : To introduce students to the world of Financial Services.
 PO3: To equip students with the knowledge and skills necessary to become employable in the financial service industry.
 PO4 Evaluate the structure of financial markets, the different types of securities, and the performance of market participants.
 PO5: Provide a detailed explanation of financial instruments such as options, futures, swaps and other derivative securities.
 PO6: Evaluate the trends that make financial planning an emerging profession.
 PO7: Evaluate the economic environment and the impact of governmental economic policies on consumers and financial institutions

Class/ Paper/ Semester	Title	Course Outcome
F. Y. B.F.M SEMESTER I Course: Major-I	Business Economics – I	On successful completion of this course students will be able to: LO: Students will be able to understand the concepts of cost, nature of production and its relationship to Business operations. LO2: Students can apply marginal analysis to the —firm under different market conditions. LO3: Students can analyze the causes and consequences of different market conditions. LO4: Students will be able to integrate the concept of price and output decisions of firms under various market structures.
F. Y. B.F.M SEMESTER I Course: Major II	Business Mathematics & Statistics	On successful completion of this course students will be able to: LO1: Apply the knowledge of mathematics and statistics in solving business problems. LO2: Analyse and demonstrate mathematical and analytical skills required in mathematically intensive areas.

		<p>LO3: Understand various quantitative & statistical methods</p> <p>LO4: Understand data and draw inference from data.</p> <p>LO5: Demonstrates an ability to apply various statistical tools to solve business problems.</p>
<p>F. Y. B.F.M SEMESTER I</p> <p>Course: Vocational/Skill Enhancement course</p>	<p>Financial Accounting</p>	<p>On successful completion of this course students will be able to:</p> <p>LO1 Students will be able to develop a logical and practical approach in the area of accounting.</p> <p>LO2 Students will understand the applicability of accounting by studying the topics like accounting standards, share valuation etc.</p> <p>LO3 Students will be able to prepare corporate financial statements in vertical form.</p>
<p>F. Y. B.F.M SEMESTER I</p> <p>Course: Indian Knowledge System (IKS)</p>	<p>Indian Business & Management Models</p>	<p>On successful completion of this course students will be able to:</p> <p>LO1 Students will get an idea about ancient Indian philosophy, culture and economic Structure and a roadmap to the 21st century.</p> <p>LO2 Students will understand the philosophical foundation of Indian Business Models and development of the business sector in the country.</p> <p>LO3 Students will be able to enhance their ability in understanding the requirement of the present Indian economy if they know its developmental history.</p>
<p>F. Y. B.F.M SEMESTER I</p> <p>Course: AEC</p>	<p>Business Communication 1</p>	<p>After completion of this course, the learner will be able to:</p> <p>LO1 Communicate effectively (Verbal and Non-Verbal)</p> <p>LO2 Effectively manage the team as a team player</p> <p>LO3 Develop interview skills</p> <p>LO4 Develop Leadership qualities and essentials.</p>
<p>F. Y. B.F.M SEMESTER I</p>	<p>Environmental Science</p>	<p>After completion of this course, the learner will be able to:</p>

Course: Value Added Course		<p>LO1: Creates awareness among the students about environmental concepts and issues.</p> <p>LO2: Develops in-depth understanding of the environmental issues (local, national and global level)</p> <p>LO3: Inculcates awareness on various dimensions of the environment through knowledge, skill, critical thinking and problem-solving.</p> <p>LO4: Develops a sense of concern, commitment, and responsibility towards the environment.</p> <p>LO4: Motivates participation in environment protection and conservation.</p>
F. Y. B.F.M SEMESTER II Major	Basics of Investment & Wealth Creation	<p>LO1 A basic understanding about the general principles of investment.</p> <p>LO2 Learners get an in-depth knowledge of the time value of money and its calculation.</p> <p>LO3 Learners gain an understanding of the different types of risks associated with investment and the ways to minimize them</p>
F. Y. B.F.M SEMESTER II Major	Equity Markets	<p>On successful completion of this course students will be able to: LO1 It creates awareness among the learners towards the Equity Market in India.</p> <p>LO2 It also creates awareness about trading in the primary market (IPO).</p> <p>LO3 It helps to understand the functioning of stock exchanges in India.</p>
F. Y. B.F.M SEMESTER II Minor	Business Environment	<p>On successful completion of this course students will be able to:</p> <p>LO1 It creates awareness among the learners towards the Business Environment in India.</p> <p>LO2 It also creates awareness about working with different environmental factors.</p> <p>LO3 Students will get to know the regulatory environment.</p> <p>LO4 Students will get to know recent developments in the Business World</p> <p>LO5 Students will know about the MSME sector and Entrepreneurial opportunities and challenges in India.</p>

<p>F. Y. B.F.M SEMESTER II</p> <p>Course: Vocational/Skill Enhancement course</p>	<p>Management Accounting</p>	<p>After completion of this course, the learner will be able to:</p> <p>LO1 Learners will be able to understand the financial position and performance of an enterprise.</p> <p>LO2 Learners will be able to Evaluate the financial position of business with different analysis learned.</p> <p>LO3 Learners will be able to understand the concept of working capital management and MPBF.</p>
<p>F. Y. B.F.M SEMESTER II</p> <p>Course: AEC</p>	<p>Business Communication II</p>	<p>After completion of this course, the learner will be able to:</p> <p>LO1 To understand the concept of Personality and personal grooming.</p> <p>LO2 To learn to make a good resume and prepare effectively for an interview.</p> <p>LO3 To learn to perform effectively in group discussions</p> <p>LO4 To acquire good communication skills develop confidence and explore communication beyond language.</p>
<p>F. Y. B.F.M SEMESTER II</p> <p>Course: Value Added Course</p>	<p>Indian Constitution</p>	<p>After completion of this course, the learner will be able to:</p> <p>LO1 To analyze and understand the Philosophy of the Constitution as set out in the Preamble</p> <p>LO2 To ensure critical and active participation in the Indian democratic system.</p> <p>LO3 To get an idea about the basis of Human Rights and how it should be used.</p>
<p>F. Y. B.F.M SEMESTER II</p> <p>OE</p>	<p>The Art of Leadership and Management</p>	<p>On successful completion of this course students will be able to:</p> <p>LO1: To demonstrate an understanding of the fundamental concepts and theories of leadership and management.</p> <p>LO2: To apply effective leadership and management skills in practical contexts.</p> <p>LO3: To evaluate different leadership styles and approaches and their impact on organizational outcomes.</p>

		LO4: To apply leadership and management principles to drive change and achieve organizational goals.
F. Y. B.F.M SEMESTER II OE	Introduction to Stock Market	After completion of this course, the learner will be able to: LO1: Students will be equipped with an understanding of the key concepts, terminologies, and principles that underlie the functioning of stock markets. LO2: Students will be able to know the workings of the stock market and how they can get started in the market. LO3: It will enable students to do a basic analysis of the stock.
S. Y. B.F.M SEMESTER III	Portfolio Management	On successful completion of this course students will be able to: LO1 Students understand the concept of portfolio and how to manage a portfolio. LO2 They are introduced to the stock market and exchanges of the country. LO3 They also get an idea about portfolio analysis on the basis of risk and return concepts. LO4 It is also aimed at imparting basic understanding important theories/models and techniques in portfolio management.
S. Y. B.F.M SEMESTER III	Equity Markets	On successful completion of this course students will be able to: LO1 It creates awareness among the learners towards the Equity Market in India. LO2 It also creates awareness about trading in the primary market (IPO). LO3 It helps to understand the functioning of stock exchanges in India.
S. Y. B.F.M SEMESTER III	Commodity Markets	LO1 It creates awareness among the learners towards the Commodity Market in India. LO2 It also creates awareness about Commodity exchange functioning. LO3 Students will get to know recent

		developments in Commodity Market.	
S. Y. B.F.M SEMESTER III	Management Accounting	<p>After completion of this course, the learner will be able to:</p> <p>LO1 Learners will be able to understand the financial position and performance of an enterprise.</p> <p>LO2 Learners will be able to Evaluate the financial position of business with different analysis learned.</p> <p>LO3 Learners will be able to understand the concept of working capital management and MPBF.</p>	
S. Y. B.F.M SEMESTER III	Organisation Behaviour	<p>LO1 : To understand the conceptual framework of the discipline of OB and its practical applications in the organizational set up.</p> <p>LO2: To deeply understand the role of individual, groups and structure in achieving organizational goals effectively and efficiently.</p> <p>LO3: To critically evaluate and analyze various theories and models that contribute to the overall understanding of the discipline.</p>	
S. Y. B.F.M SEMESTER III	Computer Skills II	<p>LO1: Develop analytical skills to import, transform and cleanse data using Power BI, build a data model for self-service reporting and manipulate the model, and understand the basic knowledge of databases.</p> <p>LO2: The student develops the skill of using excel for handling and efficiently conducts data handling and computation required in Financial Markets.</p>	
S. Y. B.F.M SEMESTER IV	Foreign Exchange Market	<p>On successful completion of this course students will be able to:</p> <p>LO1 It creates awareness among the learners towards Foreign Exchange Market in India.</p> <p>LO2 It also creates awareness about trading in the international market.</p> <p>LO3 Students will get to know the calculations behind the exchange rates quoted on a daily basis.</p> <p>LO4 Students understand the use of derivative instruments to minimize risk and exposure</p>	

S. Y. B.F.M SEMESTER IV	Marketing in Financial Services	<p>On successful completion of this course, students will be able to:</p> <p>LO1 It creates awareness among the learners towards Service marketing in India.</p> <p>LO2 It also creates awareness about market segmentation and strategies applied for marketing.</p> <p>LO3 Students can analyze the problems of the market and try to work out feasible solutions for specific issues.</p>	
S. Y. B.F.M SEMESTER IV	Debt markets	<p>On successful completion of this course students will be able to:</p> <p>LO1 It creates awareness among the learners towards current developments in the Debt market.</p> <p>LO2 It also creates awareness about the Bond Market sector.</p> <p>LO3 Students will get to know Valuations of Bond</p>	
S. Y. B.F.M SEMESTER IV	Corporate Finance	<p>On successful completion of this course, students will be able to:</p> <p>LO1: Students will be well-versed with the concepts of Capital Structure and cost of capital.</p> <p>LO2 To help you develop and sharpen your analytic abilities in financial management.</p> <p>LO3 Students can apply financial management knowledge and skills in the decision-making process in corporations.</p>	
S. Y. B.F.M SEMESTER IV	Corporate Law	<p>The Learning Outcomes of this course are as follows:</p> <p>LO1: Students will be able to understand the evolution and development of company law.</p> <p>LO2: Students will be able to understand the regulatory framework of stock exchanges, including key definitions, powers, and procedures involved in corporatization and demutualization.</p> <p>LO3: Students will be able to describe SEBI's objectives, terms, establishment, and powers.</p> <p>LO4: Students will be able to objectives and</p>	

		eligibility conditions outlined in the Depositories Act, 1996.	
S. Y. B.F.M SEMESTER IV	Computer Skills II	LO1: Develop analytical skills to import, transform and cleanse data using Power BI, build a data model for self-service reporting and manipulate the model, and understand the basic knowledge of databases. LO2: The student develops the skill of using excel for handling and efficiently conducts data handling and computation required in Financial Markets.	
TYBFM SEMESTER V	Risk Management	On successful completion of this course students will be able to: LO1 The students have a knowledge about the risk faced by a firm. LO2 The students are aware of the risk associated with different financial instruments. LO3 The students are able to calculate the amount of risk associated with different financial instruments.	
TYBFM SEMESTER V	Business Ethics and Corporate governance	LO1: Critically apply ethical frameworks to evaluate the appropriateness of corporate governance structures and decision-making processes. LO2: Analyze ethical dilemmas in the business context, utilizing decision-making models to recommend solutions that balance stakeholder interests and align with corporate governance best practices. LO3: Assess the impact of corporate social responsibility and sustainability initiatives on the effectiveness of corporate governance systems and ethical business conduct. LO4: Design strategies to integrate ethical principles and robust corporate governance mechanisms throughout an organization's policies, procedures, and organizational culture	
TYBFM SEMESTER V	Basics of Investment & Wealth Creation	LO1 A basic understanding about the general principles of investment. LO2 Learners get an in-depth knowledge of the time	

		<p>value of money and its calculation.</p> <p>LO3 Learners gain an understanding of the different types of risks associated with investment and the ways to minimize them</p>	
<p>TYBFM SEMESTER V</p>	<p>Venture Capital & Private Equity</p>	<p>LO1: Assess the risk/reward of an investment in an entrepreneurial company.</p> <p>LO2: Identify the material that an entrepreneur must provide to an investor.</p> <p>LO3: Conduct the necessary due diligence to decide if an investment is warranted.</p> <p>LO4: Perform the financial analysis necessary to support an investment decision (as an investor) or prepare the necessary financial materials for submission to an investor.</p> <p>LO5: Determine an appropriate valuation for making an investment (as an investor) or accepting private capital (as an entrepreneur).</p>	
<p>TYBFM SEMESTER V</p>	<p>Strategic Corporate Finance</p>	<p>On successful completion of this course students will be able to:</p> <p>LO1 : To enable the student to identify the key themes in corporate finance.</p> <p>LO2 : To understand the principal role of finance in an organization and the implication of overarching strategic application of its efficient use on the bottom line of the organization.</p> <p>LO3 : To facilitate the understanding on the impact of risk and cost of capital on investment appraisal besides their cumulative impact on the value of a capital project</p> <p>LO4 : To enable students to employ risk and sensitivity analysis on real time basis on varied projects.</p> <p>LO5 : To developed skills in group work, including communication, collaboration, and presentation.</p>	
<p>TYBFM SEMESTER VI</p>	<p>Financial Derivatives</p>	<p>On successful completion of this course students will be able to:</p> <p>LO1 The students have a fair idea about futures and option.</p> <p>LO2 The student understands the different strategies to be applied in different situations to</p>	

		<p>minimize loss.</p> <p>LO3 The students understand the valuation process of derivatives.</p>	
<p>TYBFM SEMESTER VI</p>	<p>Marketing in Financial Services</p>	<p>On successful completion of this course, students will be able to:</p> <p>LO1 It creates awareness among the learners towards Service marketing in India.</p> <p>LO2 It also creates awareness about market segmentation and strategies applied for marketing.</p> <p>LO3 Students can analyze the problems of the market and try to work out feasible solutions for specific issues.</p>	
<p>TYBFM SEMESTER VI</p>	<p>Mutual Fund Management</p>	<p>On successful completion of this course students will be able to:</p> <p>LO1 Students are able to compute the NAV of a Mutual Fund.</p> <p>LO2 Students know the different types of Mutual Fund and how to select a fund according to the investment goal of the investor.</p> <p>LO3 Students are able to calculate the performance of a fund.</p>	
<p>TYBFM SEMESTER VI</p>	<p>Strategic Management</p>	<p>On successful completion of this course students will be able to:</p> <p>LO1 : Understand the basic concepts and principles of strategic management analyze the internal and external environment of business</p> <p>LO2 : Develop and prepare organizational strategies that will be effective for the current business environment</p> <p>LO3 : Devise strategic approaches to managing a business successfully in a global context</p>	
<p>TYBFM SEMESTER VI</p>	<p>Technical Analysis</p>	<p>On successful completion of this course students will be able to:</p> <p>LO1 : Examine the discipline of technical analysis.</p> <p>LO2 : Apply the important tools and concepts of technical analysis within price trends and turning points.</p> <p>LO3 : Apply chart patterns, trading volumes and price objectives within price trends.</p> <p>LO4 : Apply the common indicators used in technical analysis to add value to basic chart</p>	

		analysis.	
TYBFM SEMESTER VI	Project Work	On successful completion of this course students will be able to understand: LO1: It will help students to understand the applicability of concepts to the realistic world. LO2: It will inculcate in the mindset of students about a new arena to explore and analyze them. LO3: It will indulge the habit of Research in Students.	

BAF

B.Com. (Accounting & Finance)

Program Specific Outcomes (PSO's):

A learner after completing B.Com. Accounting and Finance will be able:

- PO1 To demonstrate their knowledge and ability, to add value to the organisations that they will be a part of.
- PO2 To enhance the skills in complex and critical areas of Accounting, Finance, Auditing and Taxation.
- PO3 To manage entire accounting at personal or corporate level single handed.
- PO4 To convey their responsibility as an accountant and a member of the finance team of any organisation towards various stakeholders individually and towards the economy as a whole.

Program Specific Outcomes (PSO's)

On the completion of B.Com. Accounting and Finance program, learners will be enriched with knowledge and be able to

- PSO1 Go ahead with a professional course in excellent prospects to choose from varied courses like Chartered Accountancy (ICAI), Cost Accountant (ICMAI), Chartered Certified Accountants (ACCA), MBA, Chartered Finance Analyst (CFA), and Company Secretary.
- PSO2 Develop a range of subject specific and technical skills, also gain more general skills like numerical and quantitative skills, oral and written communication skills, entrepreneurship.
- PSO3 Do research work in the field of finance.
- PSO4 Enhance student's communication skills, social skills, computer skills as well. This programme also updates students with commercial laws and business economics.

Class/ Paper/ Semester	Title	Course Outcome
FYBAF Sem 1	Financial Accounting - I	<ul style="list-style-type: none"> ★ Apply Accounting Standards and be able to apply the various methods of inventory valuation. ★ Understand the concept of Cost of Production in Manufacturing Concern and preparation of final accounts. ★ Allocate the various Expenses and Income among Departments appropriately. ★ Understand methods of Accounting and calculation of interest in Hire Purchase.
FYBAF Sem 1	Cost Accounting- I	<ul style="list-style-type: none"> ★ Understand cost accounting with its elements. ★ Recognize the importance of material issues and its pricing and cost control. ★ Understand the concept of labour cost and primary and secondary distribution of overheads to apply the concept of Absorption costing.
FYBAF Sem 1	Innovative Financial Services	<ul style="list-style-type: none"> ★ Category various financial institutions based on scope of products and services offered by them. ★ Analyse various alternatives available for business to raise required funds at low cost ★ Determine the role of financial intermediary like merchant bankers, brokers, underwriters, in case of listing and existing companies. ★ understand consumer finance mechanisms in India. ★ Ascertain housing finance companies in India, their regulator and problems faced by them.
FYBAF Sem 1	Business Law	<ul style="list-style-type: none"> ● To provide introductory elements of IT Act, 2000. To discuss the scope of cyber laws. To discuss cyber crimes and various sections of IT Act, 2000 dealing with cyber crimes. To discuss regulation of certifying authorities.

		<ul style="list-style-type: none"> ● Comprehend the fundamental aspects of intellectual property rights law in the special statutes and judicial interpretations, with special reference to Patents, TradeMarks and Copyright Acts in India. ● To understand the basics of Consumer Protection law prevailing in India and how to seek redressal through the Disputes Redressal Agencies.
FYBAF Sem 1	Principles of Accounting	<ul style="list-style-type: none"> ★ To understand the basic accounting concepts & Terminologies. ★ To understand the application of Golden Rules of Accounting. ★ To understand the effects of each transaction and be able to pass Journal Entries. ★ To understand Trial balance. ★ To understand the Meaning, Objectives and Importance of Final Accounts.
FYBAF Sem 1	Taxation and Revenue Collection in Ancient India	<ul style="list-style-type: none"> ★ To understand the revenue collection system in ancient India ★ To gain knowledge of the taxation system in ancient India
FYBAF Sem 2	FINANCIAL ACCOUNTING-II	<ul style="list-style-type: none"> ★ Prepare Final Accounts of the Trader from Single Entry System. ★ Understand the Procedure of Consignment and Accounting of Consignment. ★ Do transactions relating to Branch. ★ Calculate Fire Insurance Claims by applying Average Clause and considering the treatment of abnormal Items.
FYBAF Sem 2	FINANCIAL MANAGEMENT- I	<ul style="list-style-type: none"> ★ On completion of this course, the students will be able to integrate the concept and apply the financial concepts in the decision making process.

		<ul style="list-style-type: none"> ★ Students will be able to analyse the company's performance and make appropriate recommendations. ★ Explains alternative sources of finance and investment opportunities and their suitability in particular circumstances. ★ Analyze the capital structure decisions through relevant models. ★ Helps to take both long term and short term financing decisions.
FYBAF Sem 2	COMPUTER SKILLS IN ACCOUNTANCY	<ul style="list-style-type: none"> ★ To understand the concepts about computers hardware and software. ★ Learners will be able to independently create professional-looking documents and presentations. They will be familiar with some advanced Word and PowerPoint functions in a variety of professional, educational, and personal situations. ★ To know digital economy, strengthening communities and social ties ★ Students will learn to create a company using Tally software, enter accounting vouchers including advance voucher entries, reconcile bank statements, do accrual adjustments and also print statements.
FYBAF Sem 2	Auditing- I	<ul style="list-style-type: none"> ★ Describe the fundamental concepts, objectives, types etc. of Auditing ★ Describe components of Audit Planning and Programming in detail
FYBAF Sem 2	Business Communication-II	<p>After completion of this course learner will be able to:</p> <ul style="list-style-type: none"> ● Develop confidence in public speaking ● Practice writing as a process of motivated inquiry, and write using quotations, paraphrase, allusions and summary. ● Understand the concepts of effective oral, listening and writing skills. ● Understand the importance of communication in management and be able to increase managerial efficiency.

FYBAF Sem 2	Indian Constitution	<p>After completion of this course learner will be able to:</p> <ul style="list-style-type: none"> ● Analyze and understand the Philosophy of the Constitution as set out in the Preamble. ● Ensure critical and active participation in the Indian democratic system. ● Get an idea about the basis of Human Rights and how it should be used.
SYBAF Sem 3	Financial Accounting (Special Accounting Areas) - III	<p>After completion of this course learner will be able to understand:</p> <ul style="list-style-type: none"> ● Order of Payment on Dissolution of a Firm ● Need for Conversion and Accounting for Foreign Currency Transactions ● Concept of Amalgamation, Accounting Procedure in the books of Old Firms And New Firm ● Accounting of Conversion and Distribution of Shares and Debentures among the partners in a proper manner ● The process of Preparation of Final Accounts along with adjustments arising due to Admission, Retirement and Death of a Partner
SYBAF Sem 3	Auditing (Techniques of Auditing and Audit Procedures) -II	<p>After completion of this course learner will be able to:</p> <ul style="list-style-type: none"> ● Enhance the understanding of Audit Techniques i.e. Vouching and Verification ● Understand auditing of Income, Expenses, Assets and Liabilities ● Gain conceptual understanding of Auditing Standards ● Understand the importance of Audit in the companies
SYBAF Sem 3	Taxation-I (Direct Taxes- I)	<p>After completion of this course learner will be able to:</p> <ul style="list-style-type: none"> ● Understand and remember the basic and technical terms used in Income Tax ● Determine the Residential status of an individual and determine his scope of Total income ● Ability to compute Income from Salaries, House Property and Income from Other Sources of an Individual.

		<ul style="list-style-type: none"> • Understand and remember Deductions available to an individual under Chapter VI A of the Income Tax Act which will reduce the taxable income of an individual. • Apply the above concepts learnt and compute the total income of self or any other individual.
SYBAF Sem 3	Business Law-II	<p>After completion of this course learner will be able to:</p> <ul style="list-style-type: none"> • Understand various legal aspects related to partnership. • Acquaintance with the incorporation and dissolution procedures of LLPs. • Distinguish between Partnership firm, Limited liability partnership and Company
SYBAF Sem 3	Business Economics- II	<p>After completion of this course learner will be able to understand:</p> <ul style="list-style-type: none"> • The important concepts of Macroeconomics & main functions of the Keynesian theory of employment, interest and money. • Understand how money supply works in an economy, its factors, fluctuations and measures to correct them. • Understand how public finance works. • Fiscal Management and Financial Administration, Government's role, functions and policy measures.
SYBAF Sem 3	Information Technology in Accountancy	<p>After completion of this course learner will be able to:</p> <ul style="list-style-type: none"> • Learners will be able to independently create professional-looking documents and presentations. They will be familiar with some advanced Word and PowerPoint functions in a variety of professional, educational, and personal situations. • To understand the concepts about computers hardware and software. • To know digital economy, strengthening communities and social ties • Students will learn to create a company using Tally software, enter accounting vouchers including advance voucher entries, reconcile

		bank statements, do accrual adjustments and also print statements.
SYBAF Sem 4	Financial Accounting (Special Accounting Areas) - IV	<p>On successful completion of this course students will be able to understand:</p> <ul style="list-style-type: none"> ● Revised Schedule III & Financial Statements as per the Revised Schedule. ● The concept of redemption of Preference Shares. ● The terms of redemption of Debentures and method of redemption. ● Concept of Profit Prior to Incorporation and its treatment in Accounts. ● The Provisions of AS-11 and translation of the Financial Statements of Foreign Branches.
SYBAF Sem 4	Auditing - III	<p>On successful completion of this course students will be able to:</p> <ul style="list-style-type: none"> ● Enhance the understanding of Audit Reporting ● Understand technical aspects of auditing in the Information System Environment. ● Gain conceptual understanding of forensic auditing and investigation ● Understand professional ethics of an auditor.
SYBAF Sem 4	Cost and Management Accounting	<p>On successful completion of this course students will be able to:</p> <ul style="list-style-type: none"> ● Explain cost accounting systems and purposes of cost accounting. ● Explain the relationships between cost and financial accounting. ● Evaluate complex ideas and tolerate ambiguity in managerial and organisational problem-solving ● Demonstrate mastery of costing systems, cost management and control performance evaluation by management accounting. ● Critically analyse and provide recommendations to improve the

		operations of organisations through the application of management accounting techniques
SYBAF Sem 4	Research Methodology in Accounting and Finance	<p>On successful completion of this course students will be able to:</p> <ul style="list-style-type: none"> • Demonstrate the ability to choose methods with appropriate to research aims and objectives • Explains the advancement and limitations of particular research methods • Develop skills in qualitative and quantitative data analysis and with their presentation • Develop advanced critical thinking skills and writing skills in making a research article.
SYBAF Sem 4	Taxation-II (Direct Taxes-II)	<p>On successful completion of this course students will be able to:</p> <ul style="list-style-type: none"> • Compute Income from Business & Profession and Capital Gains of an Individual. • Understand and remember Deductions available to an individual under Chapter VI A of the Income Tax Act which will reduce the taxable income of an individual. • Apply the above concepts learnt and compute the total income of self or any other individual.
SYBAF Sem 4	Indian Economy	<p>On successful completion of this course students will be able to:</p> <ul style="list-style-type: none"> • Learn the economic structure of India on a macro level. • Understand the growth pattern of the Industrial Sector and the inter-state disparities in India. • Understand the Service sectors in India and the recent growth in them. External sector in

		India and its contribution to the Indian economy.
TYBAF Sem 5	Financial Accounting – V	<p>At the end of this course students should be able to:</p> <ul style="list-style-type: none"> • Calculate purchase consideration by various methods of calculation and solving practical problems after considering the procedure of amalgamation. • Solve practical problems after considering adverse situations of the company and provisions regarding internal reconstruction. • Prepare a statement of underwriter’s liability. Liquidate joint to stock company as per procedure. • Apply all legal provisions regarding calculation of buyback
TYBAF Sem 5	Financial Accounting - VI	<p>At the end of this course students should be able to:</p> <ul style="list-style-type: none"> • Apply format of final accounts as per Banking Companies Act, 1949 in practical manner. Verify the financial position of the Bank from various angles. • Apply the format of final accounts as per Insurance Companies Act, and prepare Final Accounts accordingly. • Practically value the Goodwill of a Company by purchase method and capitalisation method. apply procedure of valuation of personal investment in real, mostly investment in Share market.. • Apply format of final accounts as per LLP Act, 2008 in practical manner and convert Partnership final accounts into LLP after conversion.
TYBAF Sem 5	Cost Accounting - III	<p>At the end of this course students should be able to:</p> <ul style="list-style-type: none"> • Understanding of concepts of costing and accounting procedures. Know ratios which are used in companies • Knowledge about comparison of cost integrated and non integrated costing system Study practical activities in production with two systems. • Study practical approach towards in service costing Study practical approach towards process in production

		<ul style="list-style-type: none"> • Study per unit cost and apportion of elements used in process. • Study practical calculations of cost with reference to activity Differentiate cost between traditional and ABC approach.
TYBAF Sem 5	Taxation-III (Indirect Taxes- I)	<p>At the end of this course students should be able to:</p> <ul style="list-style-type: none"> • Understand the relevant provisions, concepts, terms, rules under CGST Act, 2017. • Calculate Tax amount, Input Tax credit, Value of supply. • Gain practical understanding of Registration process under GST
TYBAF Sem 5	International Finance	<p>At the end of this course students would:</p> <ul style="list-style-type: none"> • Be aware of derivative products like forward contracts, futures contracts, etc. • Get an insight about Options contract. • Be well versed with the various terms related to foreign exchange accounts, foreign exchange quotes and major foreign currencies around the world. • Discuss about the various risks in foreign exchange dealings and management of the risks using various hedging techniques and know calculation of forward rate and spot rate.
TYBAF Sem 6	Financial Accounting – VII	<p>At the end of this course students should be able to:</p> <ul style="list-style-type: none"> • Prepare Final Account for Electricity Company as per Double Account System • Prepare final accounts of Co-Operative Housing Society & Consumer Co-Operative Society. • Get the knowledge of IFRS its Purpose & Objective of financial statement, its Framework, its assumption, characteristics, element, recognition & measurement. understand the mutual fund and AS-13.
TYBAF Sem 6	Cost Accounting - IV	<p>At the end of this course students should be able to:</p> <ul style="list-style-type: none"> • Prepare various types of budgets depending upon the types of activities. • Understand the concepts of absorption costing, marginal costing, and cost volume and profit analysis.

		<ul style="list-style-type: none"> ● Take decisions like make or buy, appropriate sales mix on the basis of analytical costing methods. Find material, labour, sales and overhead variances.
TYBAF Sem 6	Taxation-IV (Indirect Taxes- II)	<p>At the end of this course students should be able to:</p> <ul style="list-style-type: none"> ● Calculate Tax liability, Late fees, penalty under CGST Act. ● Understand various GST Returns and Assessment. ● Understand various Provisions of Custom Act. ● Gain knowledge of Import and export procedures, Documentation under Custom Act ● Learn the foreign trade policies and the various schemes & exemption under the same.
TYBAF Sem 6	Security Analysis and portfolio management	<p>At the end of this course students should be able to:</p> <ul style="list-style-type: none"> - appreciate the importance of forming a portfolio of investments with varied risk and reward patterns. They would recall and discuss various portfolio management models. - Students would recall and discuss the meaning and need of portfolio evaluation and portfolio revision. - Students would appreciate and understand the need of various fundamental analysis in developing and managing a portfolio. - Students would be acquainted with various technical analysis tools like Charts, Patterns and other mathematical and market indicators. - Students would be able to describe various efficient market theories w.r.t. to managing a portfolio
TYBAF Sem 6	Financial Management-II	<p>At the end of this course students should be able to:</p> <ul style="list-style-type: none"> ● understand the concept of capital budgeting and its various techniques such as net present value, payback period of a project and take investment decisions. ● Understand the capital structure of a company and apply the theories of capital structure in decision making. ● Understand the concept of receivable

		management and their practical implication in real life in evaluating the credit policies.
BA in Multimedia and Mass Communication (BAMMC) Program Specific Outcomes (PSO's): Program Outcomes (PO):		
Class/ Paper/ Semester	Title	Course Outcome
B.Sc. Computer Science Program Specific Outcomes (PSO's): Program Outcomes (PO): PO <ul style="list-style-type: none"> ● To develop an understanding and knowledge of the basic theory of Computer Science with a good foundation on theory, systems and applications such as algorithms, data structures, data handling, data communication and computation. ● To develop the ability to use this knowledge to analyse new situations ● To acquire necessary and state-of-the-art skills to take up industry challenges. The objectives and outcomes are carefully designed to suit the above-mentioned purpose. ● The ability to synthesize the acquired knowledge, understanding and experience for a better and improved comprehension of the real-life problems ● To learn skills and tools like mathematics, statistics, IoT to find the solution, interpret the results and make predictions for the future developments. 		
Class/ Paper/ Semester	Title	Course Outcome
FYCS Sem 1	Computer Fundamentals	<ul style="list-style-type: none"> ● To learn about how computer systems work and underlying principles ● To understand the basics of digital electronics needed for computers ● To understand the basics of instruction set architecture for reduced and complex instruction sets ● Work with any type of operating system ● Work with Linux file system structure, Linux Environment

FYCS Sem 1	Introduction to Programming using Python	<ul style="list-style-type: none"> ● Ability to store, manipulate and access data in Python ● Ability to implement basic Input / Output operations in Python ● Ability to define the structure and components of a Python program. ● Ability to learn how to write decision statements and loops in Python. ● Ability to learn how to write functions and pass arguments in Python.
FYCS Sem 1	Quantitative Aptitude Development	<ol style="list-style-type: none"> 1. To develop basic skills related to aptitude. 2. To understand the use of aptitude in all the spheres of career and prepare for them precisely. 3. Common methodologies of solving questions related to Logical Reasoning and Quantitative Aptitude. 4. Learn the various question types and their basic approaches. 5. Create a bridge for the advanced levels of aptitude and prepare a base for the Employability Enhancement Program.
FYCS Sem 1	Python for Everybody	<ul style="list-style-type: none"> ● Learners should be able to understand the syntax of programming and execute programs ● Learners should be able to solve basic problems from various domains using programs ● Learners should be able to explore and use specialised python modules used in their domain
FYCS Sem 1	Website Design Using Content Management System	<ul style="list-style-type: none"> ● After successful completion of this course, students would be able to Design valid, well-formed, scalable, and meaningful pages using emerging technologies. ● Develop and implement websites that are responsive and adapt to different devices and screen sizes, ensuring a consistent and user-friendly experience across platforms.

		<ul style="list-style-type: none"> ● Develop and implement Database Driven Websites. ● Develop and implement latest advancements in CMS technologies, emerging trends in web development, and adapt to evolving industry practices
FYCS Sem 1	Web Designing	<ul style="list-style-type: none"> ● After successful completion of this course, students would be able 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. ● Develop and implement client-side and server-side scripting language Programs. ● Develop and implement Database Driven Websites.
FYCS Sem 1	Business Communication 1	<ul style="list-style-type: none"> ● Improve proficiency on English language. ● Understand and interpret any text they are reading from different perspectives. ● Use the concepts of reading and understanding various forms of communication and be able to become excellent communicators... ● Develop the concept of summarizing research paragraphs. ● Understand the concepts of effective oral, listening and writing skills ● Understand the importance of communication in management and be able to increase managerial efficiency.
FYCS Sem 1	Vedic Mathematics	<p>Learning Outcomes:</p> <ul style="list-style-type: none"> ● By successfully completing this course, the learner will be able to: ● Perform simple arithmetic calculations with speed and accuracy ● Will be able to generate tables of any number

		<ul style="list-style-type: none"> ● To perform products of large numbers quickly ● Develop confidence in calculating square roots and cube roots of integers ● Perform difficult calculations speedily. ● Face Numerical Aptitude part of any Competitive Examination confidently.
FYCS Sem 1	Indian Constitution	<ul style="list-style-type: none"> ● To analyze and understand the Philosophy of the Constitution as set out in the Preamble ● To ensure critical and active participation in the Indian democratic system. ● To get an idea about the basis of Human Rights and how it should be used.
FYCS Sem II	Design & Analysis of Algorithms	<p>After successful completion of this course -</p> <ul style="list-style-type: none"> ● Students should be able to understand and evaluate efficiency of the programs that they write based on performance of the algorithms used. ● Students should be able to appreciate the use of various data structures as per need to select, decide and apply appropriate design principle by understanding the requirements of any real life problems
FYCS Sem II	Database Management System	<ul style="list-style-type: none"> ● After successful completion of this course, students would be able to appreciate the importance of database design. ● Analyze database requirements and determine the entities involved in the system and their relationship to one another. ● Write simple queries to MySQL related to String, Maths and Date Functions. ● Create tables and insert/update/delete data, and query data in a relational DBMS using MySQL commands. ● Understand the normalization and its role in the database design process. ● Create indexes and understand the role of Indexes in optimization search.

FYCS Sem II	Mathematical Statistics	<p>After successful completion of this course, learners would be able to</p> <ul style="list-style-type: none"> ● Organize, manage and present data. ● Analyze Statistical data using measures of central tendency and dispersion. ● Analyze Statistical data using basic techniques of R. ● Study the relationship between variables using techniques of correlation and regression.
FYCS Sem II	Quantitative Aptitude Development	<ol style="list-style-type: none"> 1. To develop basic skills related to aptitude. 2. To understand the use of aptitude in all the spheres of career and prepare for them precisely. 3. Common methodologies of solving questions related to Logical Reasoning and Quantitative Aptitude. 4. Learn the various question types and their basic approaches. 5. Create a bridge for the advanced levels of aptitude and prepare a base for the Employability Enhancement Program.
FYCS Sem II	Python for Everybody	<ul style="list-style-type: none"> ● Learners should be able to understand the syntax of programming and execute programs ● Learners should be able to solve basic problems from various domains using programs ● Learners should be able to explore and use specialized python modules used in their domain
FYCS Sem II	Application Designing using Python	<p>After successful completion of this course, students would be able to-</p> <ul style="list-style-type: none"> ● Ability to implement OOP concepts in Python including Inheritance. ● Ability to work with files and perform operations on it using Python. ● Ability to implement regular expression and concept of threads for developing efficient program ● Ability to implement exception handling in Python applications for error handling.

		<ul style="list-style-type: none"> ● Knowledge of working with databases, designing GUI in Python and implement networking in Python
FYCS Sem II	INTRODUCTION TO R PROGRAMMING	<p>After successful completion of this course, learners would be able to</p> <ul style="list-style-type: none"> ● Organize, manage and present data. ● Analyze Statistical data using measures of central tendency and dispersion. ● Enable to build programming logic and thereby developing skills in Programming ● Clear understanding on how to organize data and analyze data using real time examples ● Study the relationship between variables using techniques of correlation and regression.
FYCS Sem II	Business Communication 2	<p>On successful completion of this course students will be able to:</p> <ul style="list-style-type: none"> ● Develop confidence in public speaking ● Practice writing as a process of motivated inquiry, and write using quotations, paraphrase, allusions and summary. ● Understand the concepts of effective oral, listening and writing skills. ● Understand the importance of communication in management and be able to increase managerial efficiency.
FYCS Sem II	Environmental Science	<ul style="list-style-type: none"> ● Creates awareness among the students about environmental concepts and issues. ● Develops in-depth understanding of the environmental issues (local, national and global level) ● Inculcates awareness on various dimensions of the environment through knowledge, skill, critical thinking and problem-solving. ● Develops a sense of concern, commitment, and responsibility towards environment. ● Motivates participation in environment protection and conservation.

SYCS Sem 3	Object Oriented Programming Using Java	<p>Learning Outcomes: After successful completion of this course, students would be able to</p> <ul style="list-style-type: none"> ● Object oriented programming concepts using Java. ● Knowledge of input, its processing and getting suitable output. ● Design basic applications in java using Graphical User Interface. ● The learner will be able to develop applications using swings ● The learner will be able to connect databases with java
SYCS Sem 3	Data Structures	<p>Learning Outcomes: After successful completion of this course, students would be able to-</p> <ul style="list-style-type: none"> ● Create different types of data structures. ● Understand which data structure to be used based on the type of the problem. ● Apply combined knowledge of algorithms and data structures to write highly effective programs in various domains.
SYCS Sem 3	Software Engineering	<p>Learning Outcomes: Students will be able to</p> <ul style="list-style-type: none"> ● Create prototypes for software products with the aid of Software Requirements Document . ● Apply agile methods and use the scrum cycle for efficient software development. ● Use testing techniques like test cases and code reviews for software testing. ● Develop project plans and ensure quality through inspections and reviews. ● Apply Cloud Concepts to create virtual software resources.
SYCS Sem 3	Discrete Mathematics	<p>Learning Outcomes:</p> <ul style="list-style-type: none"> ● After successful completion of this course, learners would be able to:

		<ul style="list-style-type: none"> ● Define mathematical structures (relations, functions, graphs) and use them to model real life situations. ● Understand, construct and solve simple mathematical problems. ● Solve puzzles based on counting principles. ● Provide basic knowledge about models of automata theory and the corresponding formal languages. ● Develop an attitude to solve problems based on graphs and trees, which are widely used in software..
SYCS Sem 3	Introduction to Cyber Security	<ul style="list-style-type: none"> ● Develop a deeper understanding and familiarity with various types of cyberattacks, cyber crimes, vulnerabilities and remedies thereto ● Analyse and evaluate the importance of personal data its privacy and security ● Analyse and evaluate the digital payment system security and remedial measures against digital payment frauds. ● Analyse and evaluate the security aspects of social media platforms and ethical aspects associated with use of social media. ● Gain awareness of ethical and legal considerations in cybersecurity.
SYCS Sem 3	Advanced Database Concepts	<p>Learning Outcomes</p> <ul style="list-style-type: none"> ● After successful completion of this course, students would be able to ● Master concepts of stored procedure, functions, cursors and triggers and its use. ● Learn about using PL/SQL for data management. ● Use Collections and records efficiently. ● Understand concepts and implementations of transaction management and crash recovery.
SYCS Sem 4	Advanced Application Development	<p>Learning Outcomes:</p> <p>After successful completion of this course, students would be able to</p> <ol style="list-style-type: none"> 1. Store the data in NoSQL, a document-oriented MongoDB database that brings performance and scalability.

		<ol style="list-style-type: none"> 2. Use Node.js and Express Framework for building fast, scalable network applications 3. Use AngularJS framework that offers declarative, two-way data binding for web applications. 4. Integrate the front-end and back-end components of the MEAN stack. 5. Develop robust mobile applications using Flutter.
SYCS Sem 4	Computer Networks	<p>Learning Outcomes: After successful completion of this course, students would be able to</p> <ul style="list-style-type: none"> ● Learn basic networking concepts and layered architecture. ● Understand the concepts of networking, which are important for them to be known as a networking professionals
SYCS Sem 4	Theory Of Computation	<p>Learning Outcomes: After successful completion of this course, students would be able to</p> <ul style="list-style-type: none"> ● Understand Grammar and Languages ● Learn about Automata theory and its application in Language Design ● Learn about Turing Machines and Pushdown Automata ● Understand Linear Bound Automata and its applications
SYCS Sem 4	CALCULUS	<p>Learning Outcomes: After successful completion of this course, learners would be able to:</p> <ul style="list-style-type: none"> ● Develop mathematical skills and enhance the thinking power of learners. ● Understand mathematical concepts like limit, continuity, derivative, integration of functions, partial derivatives. ● Appreciate real world applications which use the learned concepts. ● Skill to formulate a problem through Mathematical modelling and simulation

SYCS Sem 4	Introduction to Cyber Security	Learning Outcomes: <ol style="list-style-type: none"> 1. Develop a deeper understanding and familiarity with various types of cyberattacks, cyber crimes, vulnerabilities and remedies thereto 2. Analyse and evaluate the importance of personal data its privacy and security 3. Analyse and evaluate the digital payment system security and remedial measures against digital payment frauds. 4. Analyse and evaluate the security aspects of social media platforms and ethical aspects associated with use of social media. 5. Gain awareness of ethical and legal considerations in cybersecurity.
SYCS Sem 4	Web Testing Using Selenium	Learning Outcomes: After successful completion of this course, students would be able to- <ul style="list-style-type: none"> ● Use Selenium Web Driver to conduct automated tests for web applications. ● Design and Create Data-Driven tests using JUnit and TestNG. ● Perform Cross-Browser testing using Selenium grid server. ● Test Mobile Applications using Appium.
TYCS Sem 5	Data Science	<ul style="list-style-type: none"> ● Read data from various data sources ● Convert data into suitable formats for processing ● Perform analysis and apply various machine learning models based on type of problem ● Evaluate the model ● Draw insights and present in the right format to the right audience.
TYCS Sem 5	Introduction to Business Intelligence, Data Warehousing and Data Mining	<ol style="list-style-type: none"> 1. Improved data accessibility and organization 2. Data warehousing allows for the centralization and consolidation of data from multiple sources, making it easier for users to access and analyze the information they need. 3. Increased efficiency and automation of business processes: Data mining can be used to uncover

		<p>patterns and insights in the data, which can then be used to automate and streamline business processes.</p> <p>4. Better decision-making: With access to more complete and accurate data, organizations can make more informed decisions.</p>
TYCS Sem 5	Information and Network Security	<ul style="list-style-type: none"> ● Understand the principles and practices of cryptographic techniques. ● Understand a variety of generic security threats and vulnerabilities, and identify & analyze particular security problems for a given application. ● Understand various protocols for network security to protect against the threats in a network
TYCS Sem 5	Web Services	<p>The learning outcomes are as follows -</p> <ul style="list-style-type: none"> ● 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
TYCS Sem 5	Game Programming	<p>Learners should study Graphics and gaming concepts with the present working style of developers where everything remains on the internet and they need to review it, understand it, be a part of community and learn.</p>
TYCS Sem 6	Blockchain Technology	<ul style="list-style-type: none"> ● Explain blockchain technology as a security mechanism ● Explore blockchain types and implementation ● Construct and deploy Smart contracts using Ethereum ● Implement decentralized applications using blockchain in real-time applications. ● Describe Private Blockchain using Hyperledger Fabric

TYCS Sem 6	Cloud Computing	<ul style="list-style-type: none"> • The 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.
TYCS Sem 6	Information Retrieval	<p>The ability to understand and describe the basic concepts, models, and algorithms used in information retrieval.</p> <ol style="list-style-type: none"> 2. The ability to design and implement information retrieval systems, including text retrieval, image retrieval, and video retrieval. 3. The ability to evaluate information retrieval systems using appropriate metrics and techniques. 4. The ability to apply information retrieval techniques to real-world problems and datasets. 5. The ability to conduct literature reviews and stay current with recent research and developments in the field. 6. The ability to analyze and solve information retrieval problems using a variety of techniques.
TYCS Sem 6	Artificial Intelligence	<p>After completion of this course, learner should -</p> <ul style="list-style-type: none"> • get a clear understanding of AI and different search algorithms used for solving problems. • get acquainted with different learning algorithms and models used in machine learning.
TYCS Sem 6	Ethical Hacking	<ul style="list-style-type: none"> • Learners 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 real time machines.
<p>B.Sc. Information Technology Program Outcomes (PO):</p>		

A learner completing B.Sc.(Information Technology) will be able to:

PO1: To think analytically, creatively and critically in developing robust, extensible and highly maintainable technological solutions to simple and complex problems

PO2 :To apply their knowledge and skills to be employed and excel in IT professional careers and/or to continue their education in IT and/or related postgraduate programmes.

PO3 :To work effectively as a part of a team to achieve a common stated goal.

PO4 :To communicate effectively in English

PO5 :Be Environment Sensitive

Program Specific Outcomes (PSO's)

On completion of B.Sc.(Information Technology)program, learners will be enriched with knowledge and be able to

PSO1:Develop Desktop and Web applications using high level languages and scripting languages such as C, C++, JAVA, PHP,ASP.Net

PSO2:Know the functions of various modules of different types of operating systems.

PSO3:Design, code test and Document a software

PSO4 :Have knowledge about different networking and security concepts

POS5 :Understanding of latest technologies like Internet of things ,Artificial Intelligence and Geographic Information Systems Cyber Security cloud computing and making applications using them

Class/ Paper/ Semester	Title	Course Outcome
SEMESTER 1 (MAJOR)	Imperative Programming Using C	After completion of this course learner will be able to: <ul style="list-style-type: none"> ● Develops the ability to study a problem, write an algorithm to solve it. ● Develop basics of programming skills using C Language. ● Develop programs using the control statements, Arrays and Strings ● Can make effective usage of arrays, structures, functions and pointers.
SEMESTER 1 (MAJOR)	Database Management Systems	After completion of this course learner will be able to: <ul style="list-style-type: none"> ● Understand the basic building blocks of database management and the concept of transaction, concurrency, and recovery. ● Identify Structure Query Language statements used in the creation and manipulation of

		<ul style="list-style-type: none"> ● Database. ● Solve Database problems using PL/SQL which will include the use of Procedures, Functions, Packages, and Triggers.
SEMESTER 1 (OE)	Introduction to Networking	<p>After completion of this course learner will be able to:</p> <ul style="list-style-type: none"> ● In-depth knowledge on networking. ● To know the network standards for both wired and wireless. ● Awareness of TCP/IP Protocol suite components and its working.
SEMESTER 1 (VSC)	Basic Python Programming	<p>After completion of this course learner will be able to:</p> <ul style="list-style-type: none"> ● Develop the basics of programming skills using Python Language ● Understand and make effective use of python data structures
SEMESTER 1 (SEC)	Web Programming using HTML and Java Script	<p>After completion of this course learner will be able to:</p> <ul style="list-style-type: none"> ● Understand different uses of Internet ● Effectively develop web pages ● Incorporate JavaScript in a web page
SEMESTER 1 (IKS)	Vedic Mathematics	<p>After completion of this course learner will be able to:</p> <ul style="list-style-type: none"> ● Overcome the fear of mathematics ● Improved critical thinking ● Familiarity with the mathematical techniques ● Appreciate the Mathematical advancements of Ancient India.
SEMESTER 2 (MAJOR)	Object-Oriented Programming Using C++	<p>After completion of this course learner will be able to:</p> <ul style="list-style-type: none"> ● Identify classes and objects from the given problem description and able to create classes and objects using C++ ● Achieve code reusability and extensibility by means of Inheritance and Polymorphism by using virtual functions. ● To define exceptions and use I/O streams.
SEMESTER 2 (MAJOR)	Operating System	<p>After completion of this course learner will be able to:</p>

		<ul style="list-style-type: none"> ● To introduce basic concepts and functions of modern operating systems ● To understand the concept of process, and thread management along with memory management ● To know the concept of I/O, File management, and deadlock ● Awareness of the Linux Operating System and shell scripting
SEMESTER 2 (MINOR)	Number System and Boolean Algebra	<p>After completion of this course learner will be able to:</p> <ul style="list-style-type: none"> ● The course helps in design and analysis of the digital circuit and system. ● Apply and solve the concept of sequential circuits for various applications like counters, shift registers etc. ● Digital circuit design by Boolean expression using Boolean algebra and using logic gates ● Analyze and design combinational circuits like code converter, multiplexers etc.
SEMESTER 2 (VSC)	Advance Python Programming	<p>After completion of this course learner will be able to:</p> <ul style="list-style-type: none"> ● Develop OOP programming skills using Python ● Design and develop GUI based applications in Python ● Do data analysis using python
SEMESTER 2 (SEC)	Web Programming using PHP	<p>After completion of this course learner will be able to:</p> <ul style="list-style-type: none"> ● Effectively develop interactive web pages ● Develop dynamic web pages ● Store information in backend from a web page
SEMESTER 2 (OE)	Introduction to Networking	<p>After completion of this course learner will be able to:</p> <ul style="list-style-type: none"> ● In-depth knowledge on networking. ● To know the network standards for both wired and wireless. ● Awareness of TCP/IP Protocol suite components and its working.
SEMESTER 3 (MAJOR)	Data Structures	<p>After completion of this course learner will be able to:</p> <ul style="list-style-type: none"> ● Identify and distinguish data structure classification, data types, their complexities

		<ul style="list-style-type: none"> ● Implement array, linked list, stack and queue. ● Implement trees, various hashing techniques and graph for various applications
SEMESTER 3 (MAJOR)	Microprocessor and Microcontroller	<p>After completion of this course learner will be able to:</p> <ul style="list-style-type: none"> ● To provide an understanding of microprocessor hardware and software. Can work with microprocessor based equipment, and can identify hardware from software faults ● Describe the architecture and organization of Microprocessor along with the instruction set format. ● Interfacing of memory & various I/O devices with 8085 microprocessor ● To understand the peripheral devices and interfacing to 8051 Microcontroller and design aspects of Micro Controller ● LO5: Develop assembly language programs using programming tools.
SEMESTER 3 (MAJOR)	Software Engineering	<p>After completion of this course learner will be able to:</p> <ul style="list-style-type: none"> ● To apply the software engineering lifecycle by demonstrating competence in communication, planning, analysis, design, construction, and deployment. ● To develop proficiency in change management, one adapts to evolving project needs; effective UI design influences user experience, and strategic language and tool selection crucially balance code maintainability and performance in software development. ● To equip the students with the testing knowledge and skills needed to excel in software testing and project management, contributing to the successful delivery of high-quality software projects.
SEMESTER 3 (MINOR)	Discrete Mathematics	<p>After completion of this course learner will be able to:</p> <ul style="list-style-type: none"> ● Formulate and apply formal proof techniques and solve the problems with logical reasoning. ● Analyze and evaluate the combinatorial

		<p>problems by using probability theory.</p> <ul style="list-style-type: none"> Analyze types of relations and functions to provide solutions to computational problems. Identify techniques of number theory and its application.
SEMESTER 3 (VSC)	Mobile Programming	<p>On successful completion of the course, students will be able to,</p> <ul style="list-style-type: none"> Create powerful and feature-rich mobile applications using Flutter. Work with various plugins and packages in Flutter.
SEMESTER 3 (OE)	AI \$ Us	<p>After completion of this course learner will be able to:</p> <ul style="list-style-type: none"> The learner should get a clear understanding of AI and different tools and fields of AI. The learner should also get acquainted with basic knowledge of Machine Learning and Artificial Neural Network.
SEMESTER 4 (MAJOR)	Programming using Java	<p>After completion of this course learner will be able to:</p> <ul style="list-style-type: none"> Learn the architecture of Java Identify data types, control flow, classes, inheritance, exceptions and event handling Use object-oriented concepts for problem solving real-life applications Build GUI programs
SEMESTER 4 (MAJOR)	Computer Networks	<p>After completion of this course learner will be able to:</p> <ul style="list-style-type: none"> Gain the knowledge of the basic computer network technology. Gain the knowledge of the functions of each layer in the OSI and TCP/IP reference model. Obtain the skills of subnetting and routing mechanisms. Familiarity with the essential protocols of computer networks, and how they can be applied in network design and implementation.
SEMESTER 4 (MAJOR)	Software Project Management	<p>After completion of this course learner will be able to:</p> <ul style="list-style-type: none"> To understand Project Management principles while developing software and to gain extensive knowledge of the basic project management concepts, framework, and the

		<p>process models.</p> <ul style="list-style-type: none"> • To define the checkpoints, project reporting structure, project progress and tracking mechanisms using project management principles and to estimate the risks involved in various project activities. • To learn the staff selection process and the issues related to people management and to facilitate a smooth, organized, and successful closure of projects, contributing to the overall efficiency and effectiveness of the organization's project management practices.
SEMESTER 4 (MINOR)	Numerical and Statistical Methods	<p>After completion of this course learner will be able to:</p> <ul style="list-style-type: none"> • Understand numerical techniques to find the roots of nonlinear equations and solution of systems of linear equations. • Understand the difference operators and the use of interpolation. • Understand numerical differentiation and integration and numerical solutions of ordinary differential equations.
SEMESTER 4 (SEC)	UI/UX and Version Control System (Development Foundations)	<p>After completion of this course learner will be able to:</p> <ul style="list-style-type: none"> • To enhance collaboration skills, useful in both small dedicated teams and larger communities that build additional features. • To enable efficient version control, collaboration, and tracking changes in software development projects.
SEMESTER 3 (OE)	AI \$ Us	<p>After completion of this course learner will be able to:</p> <ul style="list-style-type: none"> • The learner should get a clear understanding of AI and different tools and fields of AI. • The learner should also get acquainted with basic knowledge of Machine Learning and Artificial Neural Network.
	Software Project Management	
	Internet of Things	<ul style="list-style-type: none"> • Learn about the recent applications of IoT in everyday life. • Learn the key components of an IoT system, and how they fit into the broader ICT industry.

SEMESTER 5		<ul style="list-style-type: none"> • Understand the different levels of the IoT stack, and the technologies and protocols used at each layer. • Learn how to identify the most appropriate IoT devices and sensors for a given case study, and how to connect them
	Web Programming using ASP .NET	<ul style="list-style-type: none"> • To learn about basic features of ASP.NET and its controls • To create an ASP.NET application using standard .NET Controls To learn about connecting data sources using ADO.NET and managing them
	Artificial Intelligence	<ul style="list-style-type: none"> • Understand the informed and uninformed problem types and apply search strategies to solve them. • Apply difficult real life problems in a state space representation so as to solve them using AI techniques like searching and game playing. • Understand knowledge bases,Logics , reasoning systems and planning
	Enterprise Java	
SEMESTER 6	Software Quality Assurance	
	Security in Computing	
	IT Service Management	<ul style="list-style-type: none"> • describe the fundamental principles of IT service management and best practices. • explain service organisations, drivers and relationships • select the best management practice from a technical and non-technical perspective
	Principles of Geographic Information Systems	<ul style="list-style-type: none"> • describe the components and capabilities of GIS . • apply the cartographic principles and GIS methods in map making. • decide the technique used for working with GIS data in order to design map • design maps in QGIS software

	Business Intelligence	<ul style="list-style-type: none"> • describe the structure and components of Business Intelligence and Decision Support System effectively • apply different techniques of classification, clustering, Data Mining etc. • design different kinds of programs using Power BI
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B.Sc. Biotechnology

Program Specific Outcomes (PSO's):

1. Apply the basics of biotechnology to build a strong foundation that will allow them to comprehend emerging and advanced engineering concepts in life sciences.
2. Acquire expertise in the field of biotechnology so that it may be used in industry and research.
3. By integrating disciplinary and interdisciplinary components of biotechnology, students will be able to gain technological knowledge
4. Recognize the significance of bioethics, intellectual property rights, entrepreneurship, communication, and managerial skills in the development of the future generation of Indian industrialists.

Program Outcomes (PO):

1. Demonstrate analytical skills in applying appropriate science principles and methodologies to solve a wide range of problems.
2. Design, carry out experiments and analyze results by accounting uncertainties in different quantities measured using various scientific instruments.
3. Acquire the ability to correlate and draw various inferences
4. Be able to apply the learnings in the academic course to an industrial setup

Class/ Paper/ Semester/Cat egaory	Title	Course Outcome
FYBSC SEM 1 Major	Fundamentals of Biotechnology I	To familiarize the students with the potential and different applications of biotechnology
FYBSC SEM 1 Major	Biochemistry I	To acquaint the students with different concepts of biomolecules
FYBSC SEM 1 & 2 OE	Lifestyle related Disorders	<ol style="list-style-type: none"> 1. To introduce the relationship between lifestyle and health. 2. To introduce some disorders associated with habits and lifestyle. 3. To discuss the methods of prevention of lifestyle disorders.

FYBSC SEM 1 & 2 OE	Poisons in Food	<ol style="list-style-type: none"> 1. To raise the awareness of the students to intentional and unintentional additions of chemicals into 2. everyday food items 3. To help students understand the harmful effects of food adulteration and additives 4. To enable students to find out if the food they consume is safe.
FYBSC SEM 1 VSC	Cell biology and Virology	To build a firm foundation of concepts related to cell biology and virology.
FYBSC SEM 1 IKS	Ayurveda and Lifestyle	<ol style="list-style-type: none"> 1. Introduce to the students the overall organization of IKS 2. Develop an appreciation among the students the role and importance of Veda, Vedāṅgas, Upa Vedas and Purāṇas in food and medicine. 3. Motivate the students to take up a detailed study of some of these topics and explore their application potential.
FYBSC SEM 2 Major	Bioprocess Technology	To understand the basics skills applied in Fermentation Technology and build a foundation for more advanced studies in Bioprocess Technology.
FYBSC SEM 2 Major	Immunology I	<ol style="list-style-type: none"> 1. To understand the concepts of immunology 2. To delineate the various mechanisms of development of immunity
FYBSC SEM 2 Minor	Chemistry	<ol style="list-style-type: none"> 1. To acquaint the students with the basic concepts of chemical analysis like gravimetry and titrimetry 2. To introduce the concepts of stereoisomerism
FYBSC SEM 2 SEC	DNA Replication, Mutation and Repair	To build a firm foundation of molecular biology
SYBSC SEM 3 Major	Medical Microbiology I	The objective of this course is to gain insight into Disease factors and processes and disease caused by microorganism.

SYBSC SEM 3 Major	Genetics	To provide insight to students on fundamental concepts of mendelian genetics, microbial genetics.
SYBSC SEM 3 Minor	Biochemistry	1. To introduce lipids and proteins as biomolecules. 2. To enable the students with a basic understanding of the types, properties and functions of lipids and proteins.
SYBSC SEM 3 & 4 OE	Hormones and You	1. Students will be able to correlate bodily activities to hormone levels in the body. 2. A general awareness towards lifestyle related changes in hormones will be created
SYBSC SEM 4 Major	Tissue Culture	The course aims at understanding the basics of Plant tissue culture and Animal tissue culture.
SYBSC SEM 4 Major	Immunology II	The objective of this course is to familiarize students with the Immune Effector Mechanisms and various Immunotechniques.
SYBSC SEM 4 Minor	Instrumentation	1. To introduce students to some common instruments used in biotechnology laboratories. 2. To ensure an understanding of the principle and working of various spectrophotometers and chromatography techniques. 3. To develop an understanding of the applications of the various spectroscopic and chromatographic tools
SYBSC SEM 4 SEC	Cell biology	The objective of this course is to have a firm foundation in the fundamentals of Cell Biology
TYBSC SEM 5 Paper 1	Cell and Developmental Biology	Basic understanding of the cell cycle and its control will be highlighted. These concepts will pave the way to understanding developmental biology in multicellular organisms.
TYBSC SEM 5 Paper 2	Clinical Immunology	Basic understanding of the autoimmunity, hypersensitivity, cancer biology and regenerative medicine will be highlighted. These concepts will pave the way to improve the understanding advance and clinical immunology.
TYBSC SEM 5 Paper 3	Genetic Engineering and Gene Editing	The course aims to provide students with an in-depth understanding of advanced molecular cloning techniques and genetic engineering methods used in

		various organisms. Students will gain practical knowledge of cloning vectors, gene isolation, manipulation, expression, and transgenesis, along with the application of modern tools such as CRISPR/Cas systems and RNA interference.
TYBSC SEM 5 Paper 4	Marine and Environmental Biotechnology	The objective of this course is to understand the basics of Marine biotechnology, Waste treatment , management and its applications.
TYBSC SEM 5 Paper 5	Agribiotechnology and IPR	This course aims to provide students with a comprehensive understanding of intellectual property rights (IPR) and their significance in various fields. The course will also cover the role of international organizations like the World Intellectual Property Organization (WIPO) and ethical considerations surrounding IPR protection.
TYBSC SEM 6 Paper 1	Biochemistry	The objective of the course is to have a firm foundation in applied biochemistry
TYBSC SEM 6 Paper 2	Industrial Biotechnology	To provide students with a comprehensive understanding of methods for measuring process variables in bioprocessing. To explore the microbiological aspects of production processes and to discuss the principles and applications of downstream processing (DSP) techniques in bioprocessing.
TYBSC SEM 6 Paper 3	Basic Pharmacology and Neurobiology	The course aims at understanding the basics of Pharmacology , understanding drug action from the perspective of Clinical trials.
TYBSC SEM 6 Paper 4	Tissue Culture and Advanced Agribiotechnology	The course aims at improving the understanding of the basics of plant tissue culture and Animal tissue culture
TYBSC SEM 6 Paper 5	Business Innovations and Quality Assurance, Quality Control	To develop and systematically apply an Entrepreneurial way of thinking that will allow identification and creation of Business Opportunities

Autonomous Programmes			
<p>B. COM (Finance)</p> <p>PO:Program Outcomes (PO): Program Outcomes (PO): PO1: Understand the fundamental concepts and tools of finance. PO2: Design and prepare a financial plan, including recommendations. PO3: Integrate the fields of investments, taxation, insurance, estate and benefits planning. PO4: Explain how various financial instruments can be used in capital structuring and portfolio management.</p> <p>Program Specific Outcomes (PSO's): PSO1: Have an understanding of the overall role and importance of finance. PSO2: Build a diversified portfolio and assess portfolio performance. PSO3: Understand and analyze practical applications of financial management, cost management, corporate restructuring and auditing. PSO4: Analyze and evaluate financial market operations and its instruments. PSO5: Forecast the impact of economic shocks and government policy decisions on interest rates, output, prices, and exchange rates using standard macroeconomic models.</p>			
Class/ Semester	Paper/ Semester	Title	Course Outcome
FYFIN Introduction to Finance & Financial System - SEM I	- to & - SEM I	Introduction to Finance & Financial System	After completion of this course learner will be able to: LO1: Have an overview of the financial systems of the country. LO2: Understand the types of financial markets and the role of financial regulators. LO3: Understand the growth and progress of India's Financial System.
FYFIN - Basics of Accounting - SEM I		Basics of Accounting	After completion of this course learner will be able to: LO 1: To familiarize the students with the basic concepts, principles, and techniques of Preparing and presenting the accounts for users of accounting information. LO 2: To enable students to comprehend the accounting process.
FYFIN - Financial Accounting - SEM I		Financial Accounting	After completion of this course learner will be able to: LO 1: Familiarize the students with preparation of financial statements. LO 2: Enable the students to understand the information contained in the published financial statements. LO 3: Create awareness about accounting in a computerized environment.

FYFIN - Quantitative Aptitude and Reasoning - SEM I	Quantitative Aptitude and Reasoning	After completion of this course learner will be able to: LO1: Apply the knowledge of mathematics in solving business problems. LO2: Analyze and demonstrate mathematical skills required in mathematically intensive areas.
FYFIN - Financial Markets & Institutions - SEM II	Financial Markets & Institutions	After completion of this course learner will be able to: LO1: Understand the role and importance of the Indian financial market. LO2: Apply and analyze the Concepts relevant to Indian financial markets and financial institutions. LO3: Understand and analyze the mechanics and regulation of financial instruments and determine how the value of stocks, bonds, and securities are calculated. LO4: Evaluate empirical evidence of the market performance and accordingly the role of regulatory authorities to develop the financial market.
FYFIN - Introduction to Cost Accounting - SEM II	Introduction to Cost Accounting	After completion of this course learner will be able to: LO1: Apply the concept of Marginal Costing to take managerial decisions. LO2: Understand and apply the concept of Standard Costing.
FYFIN - Strategic Cost Management - SEM II	Strategic Cost Management	After completion of this course learner will be able to: LO 1: Apply the concept of Marginal Costing to take managerial decisions. LO 2: Understand and apply the concept of Standard Costing.
FYFIN - Quantitative Techniques - SEM II	Quantitative Techniques	After completion of this course learner will be able to: LO1: Understand various quantitative & statistical methods. LO2: Understand data and draw inference from data. LO3: Calculate and interpret statistical values by using statistical tools (correlation & regression). LO4: Demonstrates an ability to apply various statistical tools to solve business problems.
FYFIN - Business Law - SEM II	Business Law	After completion of this course learner will be able to: LO 1: To get an Overall Working Knowledge of the Indian Judicial System. LO 2: To understand the functioning of courts and their jurisdiction LO 3: To understand the importance of various acts that are important aspects to conduct business in India

SYFIN - Economics for finance - SEM III	Economics for finance	<p>After completion of this course learner will be able to: LO1: Analyze economic problems and relate scarcity with the requirements. LO2: Evaluate demand and can analyze cost in order to optimize cost-production combination. LO3: Recognize the existing market and can make appropriate decisions. LO4: Related factors determine national income such as consumption, saving and Investment. LO5: Interprets macroeconomic issues such as money, foreign exchange, inflation, economic growth, and foreign trade.</p>
SYFIN - Computer application for finance - SEM III	Computer application for finance	<p>After completion of this course learner will be able to: LO 1: Identify the fundamental concepts and key issues of the information systems discipline and the role of information systems in the enterprise. LO 2: Recognize the physical components of computer networks and understand the fundamental concept of the Internet as a global network of interconnected computers. LO 3: Understand the fundamental concepts of e-commerce and digital payments, including different business models, frameworks, security risks, and types of digital payment systems. LO 4 : Construct and operate various functions concerning data in worksheets and workbooks.</p>
SYFIN - Management Accounting - SEM III	Management Accounting	<p>After completion of this course learner will be able to: LO1: Interpret financial statements, compute and present the relationship between the items of Financial Statements. LO2: Calculate and interpret Ratios to understand the financial position of the organization. LO3: Calculate the requirement of working capital for an organization.</p>
SYFIN - Investment Analysis and Portfolio Management - SEM III	Investment Analysis and Portfolio Management	<p>After completion of this course learner will be able to: LO1: To acquaint the learners with various concepts of Investment LO2: To understand various models and techniques of Security and Portfolio analysis LO3: To understand the key aspects of Investment and Portfolio management.</p>

SYFIN - Corporate finance - SEM IV	Corporate finance	After completion of this course learner will be able to: LO 1: Gain insight of the basics of corporate finance. LO 2: Analyze the financial structure and status of business and take decisions accordingly.
SYFIN - International Finance - SEM IV	International Finance	After completion of this course learner will be able to: LO1: Demonstrate basic understanding of foreign exchange market and exchange rates. LO2: Demonstrate basic understanding of how to use foreign exchange derivatives and other techniques to manage foreign exchange exposures of firms. LO3: Demonstrate basic understanding of the issues pertaining to multinational financing and investment decisions.
SYFIN - Financial Management - SEM IV	Financial Management	After completion of this course learner will be able to: LO1:Learners will be able to understand the Basic of Financial management and its policy to be implemented. LO2: Learners will be able to understand the concepts of Capital budgeting and its techniques to calculate it. LO3: Learners will be able to understand and apply various techniques of inventory management. LO4 Learners will be able to apply various budgeting techniques in decision making policy of the company.
SYFIN - Technical Analysis of Stock Market - SEM IV	Technical Analysis of Stock Market	After completion of this course learner will be able to: LO 1: Understand the various terms and techniques of stock trading. LO 2:Understand the technical analysis.
TYFIN - Direct Tax - SEM V	Direct Tax	After completion of this course learner will be able to: LO1: Learners will be able to understand various basic concepts of Direct tax i.e Previous year, Assessment Year, Assesses. LO2: Learners will be able to understand the Residential status of an individual in India i.e. Resident or Non-Resident. LO3: Learners will be able to compute the Total income of an Individual.
TYFIN - Business Ethics and Corporate Governance - SEM V	Business Ethics and Corporate Governance	After completion of this course learner will be able to: LO1:Students will be able to identify, interpret, and analyze the global, political, social, environmental, technological and cultural context of the business environment. LO2:Articulate issues in business ethics, the ethical business environment and their potential effect on

		personal, managerial and corporate decisions.
TYFIN - Derivative Market - SEM V	Derivative Market	<p>After completion of this course learner will be able to:</p> <p>LO1: Students will be able to demonstrate knowledge of all aspects of derivative market theory and the roles they play in the financial markets.</p> <p>LO2: Students are able to identify how derivative instruments can be used to change or hedge risk and evaluate risks and pay-offs associated with trading such instruments and their implications</p> <p>LO3: Students are able to understand the basic risk management and trading strategies using futures and options</p> <p>LO4: Critically evaluate the techniques used to value options and the factors that determine valuation.</p>
TYFIN - Securities Analysis and Portfolio Management - SEM V	Securities Analysis and Portfolio Management	<p>After completion of this course learner will be able to:</p> <p>LO1: Students develop a basic understanding of the investments field and investment environment.</p> <p>LO2: Students get a broad and coherent knowledge of risk and return profiles of individual financial assets and the ability to apply these to investment context.</p> <p>LO3: Students develop the capability to demonstrate critical thinking and judging complex investment decisions.</p>
TYFIN - Auditing - SEM V	Auditing	<p>After completion of this course learner will be able to:</p> <p>LO1: Students will be able to review, analyze and evaluate processes, products, services, systems, organizations and employees.</p> <p>LO2: Students are able to assess the accuracy, validity, reliability, verifiability and timeliness of organizational information, as well as the sources and processes by which that information is produced.</p> <p>LO3: Students are able to strategize efficient and responsible use of resources.</p>
TYFIN - Equity Research - SEM VI	Equity Research	<p>After completion of this course learner will be able to:</p> <p>LO1: Understand the meaning and purpose of research.</p> <p>LO2: Appreciate and understand the basic framework for evaluating stocks.</p> <p>LO3: Understand and apply the appropriate stock selection tools and select a set of stock.</p>
TYFIN - Business Valuation - SEM	Business Valuation	<p>After completion of this course learner will be able to:</p> <p>LO1: Understand the drivers of business value.</p>

VI		LO2:Understand how to use free cash flows. LO3:Understanding the difference between value and price. LO4:Understanding valuation of Intangible assets.
TYFIN - Indirect Tax - SEM VI	Indirect Tax	After completion of this course learner will be able to: LO1:Learners will be able to understand the Process of registration, filing of return and various compliance of GST LO2:Learners will be able to understand how GST has helped to remove the taxation barriers between the states i.e Time, Place and Value of Supply. LO3:Learners will be able to understand the concept of Input tax credit and provisions of Payment of Tax.
TYFIN - Corporate Restructuring - SEM VI	Corporate Restructuring	After completion of this course learner will be able to: LO1:Students will get an idea about different valuation methods used for corporate restructuring transactions. LO2:Understand and assess the compliance for buyback of shares. LO3:Illustrate the accounting treatment in the nature of merger and purchase and computation of purchase consideration.
TYFIN - Financial Reporting and Analysis - SEM VI	Financial Reporting and Analysis	After completion of this course learner will be able to: LO1:Prepare and analyze final accounts of the company. LO2:Prepare and analyze final accounts of banking and insurance companies. LO3:Learn Company code of ethics, its importance and implications. LO4:Learn the working and implication of IFRS.

B. Sc. DSDA		
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B. Sc. DSDA		
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<p>PO:Program Outcomes (PO):</p> <p>After completion of the course, students would be able to:</p> <ul style="list-style-type: none"> ● Obtain data from a variety of sources. Know the principles of data and data sharing. ● Understand and be able to apply the basic tools for data cleaning and manipulation. ● Understand the concise, precise and rigorous nature of Data Science. ● Develop the skill to pleasant exposition for successful presentation for any career interview with confidence. 		
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- Work as a team player striving for self-excellence and communicate effectively with an elite audience.
- Apply principles of data science and analytics in various domains

Program Specific Outcomes (PSO's)

Class/ Semester	Paper/ Title	Course Outcome
FYDSDA/Program ming using Python/ Semester I	Programming using Python	<p>After completion of this course learner will be able to :</p> <ol style="list-style-type: none"> 1. Store , manipulate and access data in Python. 2. Implement basic Input / Output operations in Python. 3. Define the structure and components of a Python program. 4. Learn how to write loops and decision statements in Python. 5. Learn how to write functions and pass arguments in Python. 6. Create and use compound data types in Python.
FYDSDA/ Operating System and Networking/ Semester I	Operating System and Networking	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Work with Linux file system structure, Linux Environment. 2. Handle shell commands for scripting, with features of regular expressions, redirections. 3. Implement file security permissions. 4. Work with vi, sed and awk editors for shell scripting using various control structures
FYDSDA/Statistics in Data Science/Semester I	Statistics in Data Science	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Organize, manage, and present data. 2. Analyze Statistical data using measures of central tendency and dispersion. 3. Study the relationship between variables using techniques of correlation and regression.
FYDSDA/Vedic Mathematics/Seme ster I	Vedic Mathematics	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Generate tables of any number

		<ol style="list-style-type: none"> 2. Perform products of large numbers quickly 3. Develop confidence in calculating square roots and cube roots of integers 4. Perform difficult calculations speedily. 5. Face Numerical Aptitude part of any Competitive Examination confidently 6. Perform simple arithmetic calculations with speed and accuracy
FYDSDA/Indian Constitution/Semester I	Indian Constitution	<p>After completion of this course learner will be able :</p> <ol style="list-style-type: none"> 1. To analyze and understand the Philosophy of the Constitution as set out in the Preamble. 2. To ensure critical and active participation in the Indian democratic system. 3. To get an idea about the basis of Human Rights and how it should be used.
FYDSDA/Business Communication - I/Semester I	Business Communication - I	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Understand the fundamental principles and types of business communication, including written and oral communication. 2. Understand the processes and channels of communication which link an organization with its internal and external world. 3. Meet the challenges of the professional world and achieve success in their professional goals and contribute to the growth of the organization they are employed with 4. Identify and overcome barriers to communication, apply proper business etiquette, and adapt communication style to diverse audiences and cultural contexts.
FYDSDA/Application Development using Python/Semester II	Application Development using Python	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Work with files and perform operations on it using Python. 2. Implement regular expression for developing efficient program 3. Implement exception handling in Python applications for error handling. 4. Work with databases, designing GUI in Python and implement networking in Python

FYDSDA/ DBMS/Semester II	DBMS	<p>After completion of this course learner will be able:</p> <ol style="list-style-type: none"> 1. To appreciate the importance of database design. 2. To Analyze database requirements and determine the entities involved in the system and their relationship to one another. 3. To Write simple queries to MySQL related to String, Math's and Date Functions. 4. To Create tables and insert/update/delete data, and query data in a relational DBMS using MySQL commands. 5. To Understand the normalization and its role in the database design process
FYDSDA/ Mathematical Methods for AI/Semester II	Mathematical Methods for AI	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Study the relationship between variables using techniques of correlation and regression. 2. Calculate probability, conditional probability and independence. 3. Apply the given discrete and continuous distributions whenever necessary.
FYDSDA/ Open Source Software /Semester II	Open Source Software	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Differentiate between Open Source and Proprietary software and Licensing. 2. Recognize the applications, benefits, and features of Open-Source Technologies 3. Gain knowledge to start, manage open-source projects
FYDSDA/ Business Communication - II /Semester II	Business Communication - II	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Develop effective oral, writing and listening skills among learners. 2. Demonstrate effective written communication skills by composing clear, concise and professional business documents such as letters, memos, and emails. 3. Exhibit strong oral communication skills by delivering effective presentations, participating in meetings and group discussions, and practicing active listening. 4. Demonstrate quantitative problem-solving skills

		in all the topics covered
FYDSDA/ Environmental Science /Semester II	Environmental Science	<p>After completing this course, students should be able to:</p> <ol style="list-style-type: none"> 1. Understand the complexities of our natural environment and relations between different components of the environment. 2. Understands the seriousness behind conservation of resources and concepts related to sustainable development vis-à-vis improvement of quality of life. 3. Develop responsible environmental behaviors and informed decision making and bring in changes in the attitude towards the environment
SYDSDA PSO		
SYDSDA/Algorithms and Data Structures /Semester III	Algorithms and Data Structures	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Students should be able to understand and evaluate efficiency of the programs that they write based on performance of the algorithms used. 2. Students should be able to appreciate the use of various data structures as per need 3. Students should be able to select, decide and apply appropriate design principle by understanding the requirements of any real life problems
SYDSDA/ Introduction To Artificial Intelligence /Semester III	Introduction to Artificial Intelligence	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Learners should get a clear understanding of AI and different search algorithms used for solving problems. 2. The learner should also get acquainted with different learning algorithms and models used in machine learning
SYDSDA/Introduction to Data Science /Semester III	Introduction to Data Science	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Students will know relevant programming tools/technologies. 2. Students will demonstrate proficiency with

		<p>processing of data.</p> <ol style="list-style-type: none"> Students will demonstrate skills in data management. Students will apply data science concepts and methods to solve problems in real-world contexts and will communicate these solutions effectively.
SYDSDA/Software Engineering /Semester III	Software Engineering	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> To apply use of knowledge of Software Life Cycle to successfully implement the projects in the corporate world To Identify the inputs, tools, and techniques to get the required Project deliverable and Product deliverable using knowledge areas of Project Management. To Understand the concept and need of software testing.
SYDSDA/OOPs Using Java/Semester III	OOPs Using Java	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> Students will understand the need of object-oriented programming, fundamental concepts and will be able to solve computational problems using basic constructs like if-else, control structures, array, strings. in the Java environment. Students will understand how to model the real-world scenario using class diagrams and be able to exhibit communication between objects using sequence diagrams. Students will be able to implement relationships between class and objects.
SYDSDA/OOPs Using Java/Semester IV	Introduction to Machine Learning	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> Learner will be able to understand concepts of AI Learner will get to know different types of machines algorithms Learner will be able to solve different types of problems of this domain
SYDSDA/Data Science	Data Science Techniques	<p>After completion of this course learner will be able to:</p>

Techniques/Semester IV		<ol style="list-style-type: none"> 1. Students will know relevant programming tools/technologies. 2. Students will demonstrate proficiency with processing of data. 3. Students will demonstrate skill in data management.
SYDSDA/Data Warehousing and Data Mining/Semester IV	Data Warehousing and Data Mining	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Learners will be able to understand the importance of advanced database concepts. 2. Learners will develop skills for implementation of mining the data. 3. Learners will be able to understand the implementation of various data pre-processing Methods
SYDSDA/Artificial Intelligence-II/Semester IV	Artificial Intelligence - II	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Learners should get a advance understanding of AI 2. Evaluate various case studies in different domains 3. Design and implement expert systems for real world problems. 4. Various Problem Solving techniques Algorithm
SYDSDA/Data Visualization using Tableau/Semester IV	Data Visualization using Tableau	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Students will be able to install Tableau Desktop and navigate the Tableau workspace proficiently. 2. Students will demonstrate competence in data preparation, including data connection, joining, data types, and calculated fields in Tableau. 3. Students will design and create visually compelling and informative visualizations using various chart types and visualization techniques in Tableau. 4. Students will utilize advanced analytics features in Tableau for trend analysis, forecasting, and cluster analysis. 5. Students will effectively share their visualizations and insights using Tableau

Online, Tableau Server, and Tableau Public, and demonstrate an understanding of best practices in data sharing and presentation.

TYDSDA PSO

<p>TYDSDA/ Data Engineering /Semester V</p>	<p>Data Engineering</p>	<p>After completion of the course, a student should be able :</p> <ol style="list-style-type: none"> 1. To remember and explain the Data Engineering basics and Lifecycle 2. To apply the Data Architecture Design with various options available 3. To create the Data from source and make use of Storage 4. To understand Ingestion process and know about Queries, Modeling, and Transformation 5. To Illustrate Data Analytics, Machine Learning and to Explain the importance of Security and Privacy
<p>TYDSDA/ BigData Analytics /Semester V</p>	<p>Big Data Analytics</p>	<p>After completion of the course, a student should be able :</p> <ol style="list-style-type: none"> 1. Understands Big Data and its Business Implications. 2. Understands the technologies associated with big data. 3. Explore components of Hadoop and the Hadoop Ecosystem. 4. Understands what Map-Reduce Technology is and its applications. 5. Understands handling of data using Spark Technology. 6. Understands the Hive, Sqoop, and Pig Technology.
<p>TYDSDA/ Data Analytics -I /Semester V</p>	<p>Data Analytics -I</p>	<p>After completion of the course, a student should be able:</p> <ol style="list-style-type: none"> 1. Demonstrate a comprehensive understanding of social media analytics concepts, theories, and tools and Apply various social media analytics techniques to extract insights and make informed decisions. 2. Perform social network analysis to uncover

		<p>patterns, relationships, and influential nodes within social networks.</p> <ol style="list-style-type: none"> Utilize text analytics methods to extract meaningful information from social media text data. Design and implement recommender systems for social media platforms, considering user preferences and item similarities to enhance user experiences. Demonstrate the use of analytical tools in marketing. Choose appropriate data sources and analytical tools to assess marketing performance by applying analytics tools to a variety of data collected by marketers. Translate the results of quantitative analyses into managerial insights for marketing decision-making and to solve strategic marketing problems.
TYDSDA/ Artificial Intelligence /Semester V	Artificial Intelligence	<p>After completion of the course, a student should be able :</p> <ol style="list-style-type: none"> Demonstrate knowledge of the foundations and key concepts in the field of AI. Analyze and design intelligent agents for specific environments. Apply problem-solving techniques and algorithms to find solutions to different types of problems. Construct knowledge representation models and use reasoning techniques to derive new knowledge. Implement machine-learning algorithms and evaluate their performance for classification and regression tasks.
TYDSDA/ Computer Vision /Semester V	Computer Vision	<p>After completion of the course, a student should be able :</p> <ol style="list-style-type: none"> Understand the fundamentals of image formation Use and Demonstrate operations of Image Processing Relate and Explain various features of Image Understand, Identify and Examine various image patterns. Design and develop practical and innovative image processing and computer vision applications or systems

<p>TYDSDA/ Project Development /Semester V</p>	<p>Project Development</p>	<p>Upon the successful completion of this course, students will be able to:</p> <ol style="list-style-type: none"> 1. Students will successfully implement a data science project by applying appropriate methodologies, algorithms, and tools. 2. Students will demonstrate proficiency in data collection, preprocessing, feature engineering, and model development during the project implementation phase. 3. Students will effectively manage project timelines, resources, and deliverables, demonstrating project management skills. 4. Students will collaborate and work effectively in teams, demonstrating teamwork, communication, and coordination skills during project implementation.
<p>TYDSDA/ Soft Computing /Semester VI</p>	<p>Soft Computing</p>	<p>After completion of the course, a student should be able :</p> <ol style="list-style-type: none"> 1. To Learn about soft computing techniques and their applications 2. Understand perceptrons and counter propagation networks 3. Analyze the genetic algorithms and their applications
<p>TYDSDA/ Natural Language Processing /Semester VI</p>	<p>Natural Language Processing</p>	<p>After completion of the course, a student should be able :</p> <ol style="list-style-type: none"> 1. To have a broad understanding of the field of natural language processing 2. To design language model for word level analysis for text processing 3. To design various POS tagging techniques. 4. To design,implement and test algorithms for semantic analysis 5. To develop basic understanding of Pragmatics and to formulate the discourse segmentation and anaphora resolution 6. To apply NLP techniques to design real world NLP applications
<p>TYDSDA/ Data Analytics -II /Semester VI</p>	<p>Data Analytics -II</p>	<p>After completion of the course, a student should be able :</p> <ol style="list-style-type: none"> 1. To remember and understand the Cricket analytics and its procedures.

		<ol style="list-style-type: none"> 2. To apply cricetr package for analyzing performances of cricketers. 3. To understand the use of cricetr package template. 4. To analyzing performances of cricketers using of Cricpy package. 5. To apply and evaluate Cricket analysis with Machine Learning using Octave 6. Remember and relate Healthcare Analytic basics. Understand and Experiment with the attributes of Electronic Medical Record to learn about Computing Foundation. 7. Apply and Evaluate Measuring Techniques of Healthcare Quality. 8. Design and Build Predictive Models in Healthcare. Discuss and Modify Various Healthcare Predictive 9. Models and learn about Healthcare and Emerging Technologies.
TYDSDA/ Cyber security /Semester VI	Cyber security	<p>After completion of the course, a student should be able :</p> <ol style="list-style-type: none"> 1. To Understand the cyber security threat landscape. 2. Develop a deeper understanding and familiarity with various types of cyberattacks, cybercrimes, vulnerabilities and remedies thereto. 3. Analyze and evaluate existing legal framework and laws on cyber security. 4. Analyze and evaluate the digital payment system security and remedial measures against digital payment frauds.
TYDSDA/ Deep Learning /Semester VI	Deep Learning	<p>After completion of the course, a student should be able :</p> <ol style="list-style-type: none"> 1. Describes basics of mathematical foundation that will help the learner to understand the concepts of Deep Learning 2. Understand and describe model of deep learning 3. Design and implement various deep supervised learning architectures for text & image data. 4. Design and implement various deep learning models and architectures. 5. Apply various deep learning techniques to design efficient algorithms for real-world application
TYDSDA/ Project Dissertation /Semester VI	Project Dissertation	<p>Upon the successful completion of this course, students will be able to:</p> <ol style="list-style-type: none"> 1. Students will successfully implement a data

science project by applying appropriate methodologies, algorithms, and tools.

2. Students will demonstrate proficiency in data collection, preprocessing, feature engineering, and model development during the project implementation phase.
3. Students will effectively manage project timelines, resources, and deliverables, demonstrating project management skills.
4. Students will collaborate and work effectively in teams, demonstrating teamwork, communication, and coordination skills during project implementation.

BBA

PO: Program Outcomes (PO):

PO1

To provide an understanding of management's fundamental concepts, principles, and functions.

PO2

To impart information and skills in several areas of management, such as human resource management, finance, operations, and marketing, in order to create a comprehensive grasp of a corporate system.

PO3

To instill a global perspective on industrial and organizational setups and their functions in order to make an effective management decision in an international context.

PO4

To provide students with an understanding of qualitative and quantitative problems- solving and critical thinking approaches.

PO5

To provide students with practical industrial experience to improve their managerial skills and business acumen while gaining a comprehensive understanding of a business or industry.

Program Specific Outcomes (PSO's)

PSO1

Acquire Practical Experience through Internships, Industry Visits, Business Plans, etc.

PSO2

Apply finance, human resources, and marketing expertise, and demonstrate their ability to think critically and solve problems.

PSO3

Meet the needs of the industry, comprehend and expand on new horizons of knowledge through open electives.

PSO4

Comprehend the fundamental management concepts, procedures, and practises and exhibit the capacity to draw up business plans.

PSO5

Establish a business of one's own or achieve success in executive positions in the business or government sectors and demonstrate Group Collaboration Skills.

A learner completing BBA will be able to:

Class/ Paper/ Semester	Title	Course Outcome
FYBBA/ Business Management Principles and Practices/ Semester I	Business Management Principles and Practices	After completion of this course, learners will be able to: <ol style="list-style-type: none"> 1. Provide an understanding of basic concepts, principles of management. 2. Inculcate the ability to apply multifunctional approaches to organizational objectives. 3. Provide a basis of understanding to the students with reference to working of a business organization through the process of management.
FYBBA/ Fundamentals of	Fundamentals of Marketing	After completion of this course, learners will be able to: <ol style="list-style-type: none"> 1. Demonstrate strong conceptual knowledge in the

Marketing/ Semester I		<p>functional area of marketing management.</p> <ol style="list-style-type: none"> 2. Develop a comprehensive understanding of the subject and will be able to apply course concepts to real or imaginary products. 3. Appraise the opportunities and threats of conducting business in a world with fewer barriers
FYBBA/ Basics of Accounting/ Semester I	Basics of Accounting	<p>After completion of this course, the learners will be able to:</p> <ol style="list-style-type: none"> 1. Familiarize the students with the basic concepts, principles, and techniques of preparing and presenting the accounts for users of accounting information. 2. To enable students to comprehend the accounting process.
FYBBA/ Financial Accounting/ Semester I	Financial Accounting	<p>After completion of this course, learners will be able:</p> <ol style="list-style-type: none"> 1. To familiarize the students with the preparation of financial statements. 2. To enable the students to understand the information contained in the published financial statements. 3. To create awareness about accounting in a computerized environment.
FYBBA/ Economics for Business Decisions/ Semester II	Economics For Business Decisions	<p>After completion of this course, learners will be able to:</p> <ol style="list-style-type: none"> 1. Analyse economic problems and can relate scarcity with the requirements. 2. Evaluate demand and can analyse cost in order to optimize cost-production combination. 3. Recognize the existing market and can take appropriate decisions. 4. Related factors determine national income such as

		<p>consumption, saving and Investment.</p> <p>5. Interprets macroeconomic issues such as money, foreign exchange, inflation, economic growth, and foreign trade.</p>
FYBBA/ Business Environment/ Semester II	Business Environment	<p>After completion of this course, learners will be able to:</p> <ol style="list-style-type: none"> 1. Identify the key issue & perspectives to assess the impact of the Business Environment on Business. 2. Examine how different factors and trends in the external environment are likely to impact upon a proposed business venture. 3. Evaluate the role of Political, legal & Economic Environmental factors on Business Decision-making. 4. To assess the essence of International Business Environment & its impact on Business Decisions.
FYBBA/ Management Accounting/ Semester II	Management Accounting	<p>After completion of this course, learners will be able to:</p> <ol style="list-style-type: none"> 1. Acquaint management learners with basic accounting fundamentals 2. Develop financial analysis skills among learners 3. Help to aim at explaining the core concept of managerial decision
FYBBA/ Financial Management/ Semester II	Financial Management	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Acquaint learners with basics of Financial Management. 2. Calculate working capital requirements and Cost of Capital. 3. Understand determinants of Capital Structure. 4. Develop financial management skills among learners.

FYBBA/ Business Law/ Semester II	Business Law	After completion of this course learner will be able to: <ol style="list-style-type: none"> 1. Get an Overall Working Knowledge of the Indian Judicial System. 2. Understand the functioning of courts and their jurisdiction. 3. Understand the importance of various acts that are important aspects to conduct business in India.
SYBBA/ Indian Ethos in Management/ Semester III	Indian Ethos in Management	After completion of this course learner will be able to: <ol style="list-style-type: none"> 1. Link the Traditional Management System to the Modern Management System. 2. Understand the Evolution of Learning Systems in India. 3. Understand the Indian Philosophies and its role in Personality Development.
SYBBA/ Organisational Behaviour/ Semester III	Organisational Behaviour	After completion of this course learner will be able to: <ol style="list-style-type: none"> 1. Comprehensive overview of organisational behaviour as a separate area of management. 2. Understand the implications of individual and group behaviour in an organizational context. 3. Understand the concept of organizational behaviour, the social organization and the diverse environment alongside the management of groups and teams.
SYBBA/ Cost Accounting/ Semester III	Cost Accounting	After completion of this course learner will be able to: <ol style="list-style-type: none"> 1. Identify the basic concepts of costing ,cost classifications,profit measurements,elements of cost. 2. Examine different elements of cost and cost sheet

		<p>preparation.</p> <ol style="list-style-type: none"> Students will develop the understanding of Standard costing - concepts and various attributes in costing. Understand the application of marginal costing.
SYBBA/ Business Mathematics/ Semester III	Business Mathematics	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> Introduce tenets of mathematics applicable to make the students understand how to put numbers to work in a business environment. Understand financial mathematics related to Shares and Mutual Funds.
SYBBA/ Production and Total Quality Management/ Semester IV	Production and Total Quality Management	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> Acquaint learners with the basic management decisions with respect to production and quality management. Make the learners understand the designing aspect of production systems. Enable the learners, apply what they have learnt theoretically.
SYBBA/ Human Resource Management/ Semester IV	Human Resource Management	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> Understand and develop insights and knowledge base of various concepts and Functions of Human Resource Management. Learn the latest trends in Human Resource Management.
SYBBA/ Direct Taxation/ Semester IV	Direct Taxation	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> Understand the taxation rule applicability to various assessee.

		<ol style="list-style-type: none"> 2. Students will Understand the heads of income namely income from Salary,house property and Profit from Business and Profession. 3. Understand the head of Income namely Capital Gain ,Income from other Source and Exclusion from Total Income. 4. Students will Understand theVarious deduction under sec. 80 and Computation of Total Taxable Income
SYBBA/Statistics for Business Decisions /Semester IV	Statistics for Business Decisions	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Provide an understanding for the student of basic statistical concepts, tools & formulas. 2. Understand the importance of statistics in real-life situations. 3. Understand the application in relation to business.
TYBBA/Sales and Distribution Management /Semester V	Sales and Distribution Management	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Develop understanding of the sales & distribution processes in organizations. 2. Get familiarized with concepts, approaches and the practical aspects of the key decision-making variables in sales management and distribution channel management.
TYBBA/ Securities and Portfolio Management/ Semester V	Securities and Portfolio Management	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Acquaint the learners with various concepts of Investment. 2. Understand various models and techniques of Security and Portfolio analysis.

		<p>3. Understand the key aspects of Investment and Portfolio management.</p>
<p>TYBBA/Global Human Resource Management/ Semester V</p>	<p>Global Human Resource Management</p>	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Introduce the students to the study and practice of Global HRM. 2. Understand the concepts, theoretical framework and issues of HRM in Global Perspective. 3. Get insights of the concepts of Expatriates and Repatriates. 4. Find out the impact of cross culture on Human Resource Management 5. Provide information about Global Workforce Management. 6. Study Global HRM Trends and Challenges
<p>TYBBA/Strategic Management/ Semester V</p>	<p>Strategic Management</p>	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Learn the management policies and strategies at every level to develop conceptual skills in this area as well as their application in the corporate world. 2. Critically examine the management of the entire enterprise from the Top Management viewpoints. 3. Deal with corporate level Policy & Strategy formulation areas. This course aims to developing conceptual skills in this area as well as their application in the corporate world.
<p>TYBBA/Brand Management/ Semester V</p>	<p>Brand Management</p>	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Understand the meaning and significance of Brand Management.\ 2. Know how to build, sustain and grow brands. 3. Know the various sources of brand equity.

TYBBA/Wealth Management/ Semester V	Wealth Management	After completion of this course learner will be able to: <ol style="list-style-type: none"> 1. Relevance and importance of Insurance in wealth management. 2. Acquaint the learners with issues related to taxation in wealth management. 3. Understand various components of retirement planning.
TYBBA/Indian Ethos in Management/ Semester V	Indian Ethos in Management	After completion of this course learner will be able to: <ol style="list-style-type: none"> 1. Link the Traditional Management System to Modern Management System. 2. Understand the Techniques of Stress Management. 3. Understand the Evolution of Learning Systems in India
TYBBA/Commodities and Derivatives Market/ Semester VI	Commodities and Derivatives Market	After completion of this course learner will be able to: <ol style="list-style-type: none"> 1. Understanding of various aspects related to options and futures. 2. Acquaint learners with the trading, clearing and settlement mechanism in the derivatives market.
TYBBA/Strategic Human Resource Management/ Semester VI	Strategic Human Resource Management	After completion of this course learner will be able to: <ol style="list-style-type: none"> 1. Integrate HR with the business strategy. 2. Develop competency to enhance employee development. 3. Gain rational ability to manage performance strategically. 4. Develop competency to implement global HR practices
TYBBA/Entrepreneurship Management/ Semester VI	Entrepreneurship Management	After completion of this course learner will be able to: <ol style="list-style-type: none"> 1. Entrepreneurship is one of the major focus areas of

Semester VI		<p>the discipline of Management. This course introduces Entrepreneurship to budding managers.</p> <ol style="list-style-type: none"> 2. Develop entrepreneurs & to prepare students to take the responsibility of full line of management function of a company.
TYBBA/ International Business/ Semester VI	International Business	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Have a clear understanding of the International Business related concepts and of contemporary issues. 2. Develop an ability to understand IB related issues for any organization; keeping in mind the relevant standards and with realistic constraints. 3. Acquire the cross cultural understanding necessary and have an idea about the regulating organs of the world for operating in a global world and global teams. 4. Learn basic knowledge about the process and procedure of EXIM operations. 5. Gaining knowledge to operate in the domain of exports-imports operations; work in SEZs; and similar setups.
TYBBA/Logistics and Supply Chain Management/ Semester VI	Logistics and Supply Chain Management	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Identify the techniques of inventory management & examine different techniques of logistics costing & performance measurement. 2. Introduce students to the key activities performed by the logistics function.

		<ol style="list-style-type: none"> 3. Provide an insight into the nature of supply chain, its functions and supply chain systems. 4. Understand global trends in logistics and supply chain management.
TYBBA/Digital Marketing/ Semester VI	Digital Marketing	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Reach a wider target audience through digital marketing channels. 2. Keep customers engaged through effective engagement strategies. 3. Measure the success of campaigns by choosing the right metrics. 4. Gain insights from analysing qualitative and quantitative data across the online customer journey. 5. Optimise current digital marketing strategies to provide an effective online experience
TYBBA/Retail Management/ Semester VI	Retail Management	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Provide understanding of retail management and types of retailers. 2. Develop an understanding of retail management terminology including merchandize management, store management and retail strategy. 3. Create awareness about emerging trends in retail management.
<p>BSc. Artificial Intelligence:</p> <p>PO:Program Outcomes (PO):</p> <p>Program Specific Outcomes (PSO's)</p>		

Class/ Semester	Paper/ Title	Course Outcome
<p>B.Com (E-Commerce):</p> <p>PO:Program Outcomes (PO): A learner completing B. Com (E-Commerce) will be able to: PO-1:- Understand the role of business, IT, management, accounting and economics and its implications on society. PO-2:- Acquire conceptual knowledge of finance and accounting. PO-3:- Gain knowledge of different types of management information systems. PO-4:- Acquire entrepreneurial, administrative, legal and managerial skills. PO-5:- Develop the skills and techniques of communication.</p> <p>Program Specific Outcomes (PSO's):</p> <p>On completion of B. Com (E-Commerce) program, learners will be enriched with knowledge and be able to: PSO-1:- Understand contemporary trends in e-commerce and business finance. PSO-2:- Acquire diversified career options in different fields and organizations with the advancement of Information Technology. PSO-3:- Get acquainted with accounting and technological aspects in e-commerce organizations. PSO-4:- Familiarize themselves with current challenges and issues in E-commerce. PSO-5:- Develop understanding with reference to Legal and Regulatory Environment and Security issues of E-commerce.</p>		
Class/ Paper/ Semester	Title	Course Outcome
F. Y. B. Com. (E-Commerce) SEM I	Introduction to Business	LO 1: Understand the concept, nature of business and the recent trends and strategy alternatives in business. LO 2: Identify and understand the changes and constituents of the business environment, and its impact on business. LO 3: Understand the concept, nature, scope, strategies of services, marketing mix for services and recent trends in services. LO 4: Evaluate the concept of BPO, KPO, LPO and ERP.

		LO 5: Understand the concept of E-Commerce and its role in Business.
F. Y. B. Com. (E-Commerce) SEM I	COMPUTER APPLICATIONS	LO 1: To develop computer skills of industry needs. LO 2: To skill students with Excel tools that are used in industry on day today basis. LO 3: This course is aimed at exposing students to the use of Advanced Excel formulas and features in intensive data analysis. LO 4: To make students capable of creating a company, enter accounting voucher entries including advance voucher entries, reconcile bank statements, do accrual adjustments, and also print financial statements, etc. LO 5: To describe the role of information technology and decision support systems in business and record the current issues with those of the firm to solve business problems.
F. Y. B. Com. (E-Commerce) SEM I	BASICS OF ACCOUNTING	LO 1: To familiarize the students with the basic concepts, principles, and techniques of preparing and presenting the accounts for users of accounting information. LO 2: To enable students to comprehend the accounting process.
F. Y. B. Com. (E-Commerce) SEM I	FINANCIAL ACCOUNTING	LO 1: To familiarize the students with preparation of financial statements. LO 2: To enable the students to understand the information contained in the published financial statements. LO 3: To create awareness about accounting in a computerized environment.
F. Y. B. Com. (E-Commerce) SEM I	BUSINESS COMMUNICATION AND SOFT SKILLS-1	LO 1: Understand the fundamental principles and types of business communication, including written and oral communication. LO 2: Demonstrate effective written communication skills by composing clear, concise and professional business documents such as letters, memos, and emails. LO 3: Exhibit strong oral communication skills by delivering effective presentations, participating in meetings and group discussions, and practicing active listening.

		LO 4: Identify and overcome barriers to communication, apply proper business etiquette, and adapt communication style to diverse audiences and cultural contexts.
F. Y. B. Com. (E-Commerce) SEM I	INDIAN MODELS OF ECONOMY & BUSINESS	LO 1: To understand the impact of globalization on Indian society. LO 2: To analyse and understand the Philosophy of the Constitution as set out in the Preamble. LO 3: To get an idea about the basis of Human Rights and how it should be used.
F. Y. B. Com. (E-Commerce) SEM II	INDIAN CONSTITUTION	LO 1: Understand India's ancient heritage in the field of business and finance. LO 2: Co-relate its applications in the modern business environment.
F. Y. B. Com. (E-Commerce) SEM II	PRINCIPLES OF MANAGEMENT	LO 1: Understand the basic concepts of management, its functions and principles. LO 2: Gain knowledge about various theories of management. LO 3: Acquire knowledge about aspects of planning and decision making. LO 4: Have understanding of function of organizing including the concepts of span of control, delegation of authority and decentralization.
F. Y. B. Com. (E-Commerce) SEM II	Introduction to Information Technology	LO 1: Understand several substantive and diverse topics covered in this course. LO 2: Demonstrate that they can use digital technology in research, analysis, and critical inquiry. LO 3: Demonstrate that they can evaluate and explain the ongoing changes in digital technology and their impacts on society. LO 4: Design, implement and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline. LO 5: Demonstrating their competence in researching, creating, and presenting projects using a variety of digital information tools.

<p>F. Y. B. Com. (E-Commerce) SEM II</p>	<p>BUSINESS ECONOMICS</p>	<p>LO 1: Analyze economic problems and can relate scarcity with the requirements LO2 Evaluate demand and can analyze cost in order to optimize cost-production combination LO3 Recognize the existing market and can take appropriate decisions</p>
<p>F. Y. B. Com. (E-Commerce) SEM II</p>	<p>MANAGEMENT ACCOUNTING</p>	<p>LO 1: To acquaint management learners with basic accounting fundamentals LO 2: To develop financial analysis skills among learners LO 3: This course will help to aim at explaining the core concept of managerial Decision</p>
<p>F. Y. B. Com. (E-Commerce) SEM II</p>	<p>FINANCIAL MANAGEMENT</p>	<p>LO 1: To acquaint learners with basics of Financial Management. LO 2: To calculate working capital requirements and Cost of Capital. LO 3: To understand determinants of Capital Structure. LO 4: To develop financial management skills among learners.</p>
<p>F. Y. B. Com. (E-Commerce) SEM II</p>	<p>BUSINESS COMMUNICATION AND SOFT SKILLS-II</p>	<p>LO 1: Deliver compelling and persuasive business presentations, utilizing appropriate structuring, visual aids, and delivery techniques. LO 2: Exhibit intercultural competence and adapt communication styles to effectively communicate in cross-cultural business settings. LO 3: Apply crisis communication strategies to manage and mitigate potential crises, protecting the reputation of individuals and organizations. LO 4: Demonstrate advanced negotiation skills and employ effective communication tactics to achieve win-win outcomes in business negotiations.</p>
<p>F. Y. B. Com. (E-Commerce) SEM II</p>	<p>ENVIRONMENTAL SCIENCE</p>	<p>LO 1: To inculcate awareness on various dimensions of the environment through knowledge, skill, critical thinking and problem-solving LO 2: To develop a critical understanding of the environmental issues of concern.</p>

<p>S. Y. B. Com. (E-Commerce) SEM III</p>	<p>Cost Accounting</p>	<p>LO1 The learner will be able to understand basic components of cost accounting LO2 The learners will be able to understand Cost Classification for Stock Valuation, Profit measurement and Elements of cost. LO3 It will help the learners to understand the concepts of Marginal costing and also will be able to apply for taking managerial decisions LO4 Learners will be able to understand the concept of Standard Costing with regards to Material, Labor and Overheads.</p>
<p>S. Y. B. Com. (E-Commerce) SEM III</p>	<p>PRINCIPLES OF MARKETING</p>	<p>LO-1 - Familiarize the students with basic concepts of marketing LO-2 - Help students develop knowledge and understanding of marketing strategies of organisations LO-3 - Enable students to become students aware of current trends in the field of marketing.</p>
<p>S. Y. B. Com. (E-Commerce) SEM III</p>	<p>Business Regulatory Framework</p>	<p>LO1 Provide students knowledge about the framework of Indian Business Laws. LO2 Familiarize the students with case law studies related to Business Laws LO3 Acquaint students with understanding of the state or country's business rules, regulations, and government policies.</p>
<p>S. Y. B. Com. (E-Commerce) SEM III</p>	<p>Entrepreneurial Development</p>	<p>LO1 Develop an understanding of the scope of an entrepreneur, key areas of development, support for Entrepreneurship development LO2 Acquaint students with the systematic process to set up an enterprise. Lo3 Equip students to develop a Business idea and Business Plan.</p>

S. Y. B. Com. (E-Commerce) SEM III	Brand Management	<p>LO1 -Help students understand the meaning and significance of Brand Management.</p> <p>LO2 -Gain knowledge of how to build, sustain and grow brands</p> <p>LO3- Acquaint students with the various sources of brand equity</p>
S. Y. B. Com. (E-Commerce) SEM III	Internet and World Wide Web	<p>LO1: Familiarize students with the basic concepts and rules of the internet.</p> <p>LO2: Make students aware of different services offered by the internet.</p> <p>LO3 : Help students understand the functionality of web browsers and search engines</p>
S. Y. B. Com. (E-Commerce) SEM III	Management Accounting	<p>LO1 It enables the learners to understand the various concepts of Management Accounting</p> <p>LO2 To make learners understand the various aspects of financial statements.</p> <p>LO3 To make learners understand the various concepts of interpretation of financial statements, computing and presenting the relationship between the items of Financial Statements.</p> <p>LO4 To make understand learners the concepts of working capital management</p> <p>LO5 Learners will be able to understand the financial position, performance of an enterprise.</p> <p>LO6 Learners will be able to understand concept of ratio analysis and implementation of ratio analysis.</p> <p>LO7 Learners will be able to understand the concept of comparative analysis i.e inter-firm and intra firm comparisons.</p> <p>LO8 Learners will be able to understand the concept of working capital management and MPBF.</p>

<p>S. Y. B. Com. (E-Commerce) SEM IV</p>	<p>Financial Management</p>	<p>LO1 To understand how valuation of money is done considering the time factor LO2 To understand how Companies manage their leverages.. LO3 To understand the concept of Cost of capital. LO4 To understand how to manage liquid funds and finance through Working capital of the company.</p>
<p>S. Y. B. Com. (E-Commerce) SEM IV</p>	<p>Human Resource Management</p>	<p>LO1 -Familiarize the students with basic concepts of HRM LO 2- Acquaint Students with concept of HRD LO3- Equip students with knowledge regarding maintaining Human relations at the workplace. LO4- Make students aware of current trends in the field of HR</p>
<p>S. Y. B. Com. (E-Commerce) SEM IV</p>	<p>Company Law</p>	<p>LO1 -Help students understand about the Indian Companies Act. LO2- Enable Student to gain knowledge about Indian Partnership Act and various types of partnerships & L.L.P LO3- Develop good understanding about Indian Consumer Act. LO4- Acquaint students with the laws related to Patent, Trade Marks & Copy rights LO5- Help student understand and gain knowledge about Domain registration, Disputes and E-commerce website.</p>
<p>S. Y. B. Com. (E-Commerce) SEM IV</p>	<p>Principles of Auditing</p>	<p>LO-1 - Help students gain Insights regarding the qualifications, remuneration, appointment, powers and duties etc. of the auditor. LO-2 - Acquaint students with various types of audits. LO-3 - Help students learn about how to apply professional ethics and various penalties under professional misconduct</p>
<p>S. Y. B. Com. (E-Commerce) SEM IV</p>	<p>Customer Relationship Management (CRM)</p>	<p>LO1- Enable students to understand the concept of Customer Relationship Management (CRM) and implementation of Customer Relationship Management. LO2 - Get insight into CRM marketing initiatives, customer service and designing CRM strategy.</p>

		LO3- Help students to understand new trends in CRM, challenges and opportunities for organizations.
S. Y. B. Com. (E-Commerce) SEM IV	Digital Marketing	LO1: Help students interpret the traditional marketing mix within the context of a changing and extended range of digital strategies and tactics LO2: Comprehend the importance of conversion and working with digital relationship marketing. LO3: Understand the emerging trends in digital marketing and critically assess the use of digital marketing tools by applying relevant marketing theories and frameworks
S. Y. B. Com. (E-Commerce) SEM IV	E-Commerce Technologies	LO1: Understand the concept of E-Commerce LO2: Know the Characteristics and functions of E-Commerce LO3: Recognize the benefits and limitations of e-commerce LO4: Identify E-Commerce opportunities and challenges LO5: Understand the online payment structure and security issues

B. Sc. Artificial Intelligence(AI)

PO: Program Outcomes (PO):

After completion of the course, students would be able to:

PO1: Basic and Discipline specific knowledge: Apply knowledge of basic mathematics, Science and engineering fundamentals and engineering specialization to solve the engineering problems.

PO2: Problem analysis: Identify and analyze well-defined engineering problems using codified standard methods.

PO3: Design/ development of solutions: Design solutions for well-defined technical problems and assist with the design of systems components or processes to meet specified needs.

PO4:Engineering Tools, Experimentation and Testing: Apply modern engineering tools and appropriate technique to conduct standard tests and measurements.

PO5:Engineering practices for society, sustainability, and environment Apply appropriate technology in context of society, sustainability, environment, and ethical practices.

PO6: Project Management: Use engineering management principles individually, as a team member or a leader to manage projects and effectively communicate about well defined engineering activities.

PO7: Life-long learning: Ability to analyze individual needs and engage in updating in the context of technological changes.

Program Specific Outcomes (PSO's)

- Use state of art technologies for Artificial Intelligence related applications.
- Maintain Artificial Intelligence related software and hardware systems.

Class/ Paper/ Semester	Title	Course Outcome
FYAI-SEM1		

FYAI/SEM1/CProgramming	C Programming	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Describe the concepts of algorithm, flowchart, constants, variables, data types and operators. 2. Describe the logical concept of input and output operations with different decision making, looping, and branching statements. 3. Develop programs using arrays, functions, and structure. 4. Develop programs using pointers. 5. Develop programs to perform file operations
FYAI/SEM1/ Operating System	Operating System	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Install operating system, configure it and study evaluation of it 2. Execute process commands for performing process management operations 3. Calculate efficiency of different memory management techniques 4. Apply file management techniques 5. Analyze the performance of different algorithms used in design of operating system.
FYAI/SEM1/Introduction to Calculus	Introduction to Calculus	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. To understand concepts of function and limits 2. To understand the concept of differential calculus. 3. To understand concepts of integral calculus. 4. Solving examples on application on derivatives and integration. 5. To understand the concept of complex numbers.

FYAI/SEM1/Financial Literacy	Financial Literacy	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Have an understanding of basic financial concepts & their usage. 2. Have an understanding of financial planning needs, importance. 3. Have an overview of India's Financial System. 4. Explore different sources of savings, investments, compare risk & return aspects and make informed choices.
FYAI/SEM1/E-Commerce & Digital Marketing	E-Commerce & Digital Marketing	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Understand the core concepts of E-Commerce. 2. Understand the various online payment techniques 3. Understand the core concepts of digital marketing and the role of digital marketing in business. 4. Apply digital marketing strategies to increase sales and growth of business 5. Apply digital marketing through different channels and platforms 6. Understand the significance of web Analytics and Google Analytics and apply the same.
FY/SEM1/Vedic Mathematics	Vedic Mathematics	<p>After completing this course, students should be able to:</p> <ol style="list-style-type: none"> 1. Generate tables of any number 2. Perform products of large numbers quickly 3. Develop confidence in calculating square roots and cube roots of integers 4. Perform difficult calculations speedily. 5. Face Numerical Aptitude part of any Competitive Examination confidently 6. Perform simple arithmetic calculations with speed and accuracy

FYAI/SEM1/Indian Constitution	Indian Constitution	<p>After completion of this course learner will be able :</p> <ol style="list-style-type: none"> 1.To understand the impact of globalization on Indian society. 2.To analyze and understand the Philosophy of the Constitution as set out in the Preamble 3. To get an idea about the basis of Human Rights and how it should be used
FYAI/SEM1/Business Communication - I	Business Communication - I	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Understand the fundamental principles and types of business communication, including written and oral communication 2. Demonstrate effective written communication skills by composing clear, concise and professional business documents such as letters, memos, and emails 3. Exhibit strong oral communication skills by delivering effective presentations, participating in meetings and group discussions, and practicing active listening. 4. Exhibit strong oral communication skills by delivering effective presentations, participating in meetings and group discussions, and practicing active listening. 5. Identify and overcome barriers to communication, apply proper business etiquette, and adapt communication style to diverse audiences and cultural contexts.
FYAI-SEM2		
FYAI/SEM2/Data Structure Using Python	Data Structure Using Python	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1 Perform basic operations on arrays 2 Apply different Searching and Sorting techniques. 3. Implement basic operations on stack and queue using array representation 4. Implement basic operations on Linked List 5. Implement a program to create and traverse tree to solve problems.

FYAI/SEM2/Relational Database System (RDBMS)	Relational Database System (RDBMS)	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Understand the overall structure of DBMS 2. Design Normalized database on given data. 3. Create and Manage Databases using SQL commands. 4. Write PL/SQL code for a given database. 5. Apply triggers on database also create procedure and function according to condition.
FYAI/SEM2/Discrete Mathematics & Linear Algebra	Discrete Mathematics & Linear Algebra	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Brief concepts and algebra of matrices to solve linear equations. 2. Solve problems related to Eigen value and Eigen vectors. 3. Apply mathematical logic to solve problems. 4. Solve problems related to combinatorics and functions. 5. Solve problems related to set theory and boolean algebra.
FYAI/SEM2/Object Oriented Programming using Java	Object Oriented Programming using Java	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Develop a program using object oriented methodology. 2. Apply concepts of code reusability. 3. Handles events of AWT and Swing Components. 4. Develop a program using Database and Networking concepts.. 5. Develop a program using servlet.
FYAI/SEM2/Stress Management and Positive Psychology	Stress Management and Positive Psychology	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Gain comprehensive understanding of positive psychology principles and stress-resilient management techniques. 2. Recognize and manage their emotions effectively, equipping them with coping strategies to handle stress in both personal and professional settings. 3. Apply tools and strategies to enhance

		<p>their emotional intelligence, mindfulness and self- reflection.</p> <p>4. Develop positive habits that promote well-being.</p>
FYAI/SEM2/ Social Entrepreneurship	Social Entrepreneurship	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Understand the difference between a commercial enterprise & social enterprise. 2. Comprehend different social issues. 3. Recognise opportunities and generate creative ways to overcome societal challenges and make 4. A positive difference to the society.
FYAI/SEM2/ Business Communication - II	Business Communication - II	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Deliver compelling and persuasive business presentations, utilizing appropriate structuring, visual aids, and delivery techniques. 2. Exhibit intercultural competence and adapt communication styles to effectively communicate in cross-cultural business settings. 3. Apply crisis communication strategies to manage and mitigate potential crises, protecting the reputation of individuals and organizations. 4. Demonstrate advanced negotiation skills and employ effective communication tactics to achieve win-win outcomes in business negotiations.
FYAI/SEM2/ Environmental Science	Environmental Science	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Understand the complexities of our natural environment and relations between different components of the environment. 2. Understands the seriousness behind conservation of resources and concepts related to sustainable development vis-à-vis improvement of quality of life. 3. Develop responsible

		environmental behaviors and informed decision making and bring in changes in the attitude towards the environment
SYAI SEM3		
SYAI/SEM3/Artificial Intelligence	Artificial Intelligence	After completion of this course learner will be able to 1. Use selected AI applications online to explore various types of AI 2. Recognize AI applications in everyday life 3. Identify the various types of problems that AI can solve
SYAI/SEM3/Embedded System	Embedded System	After completion of this course learner will be able to: 1. Select the relevant microcontroller for various industrial applications. 2. Use embedded C programming language to maintain embedded systems. 3. Develop basic applications using Arduino.
SYAI/SEM3/Statistical methods & Probability Models	Statistical methods & Probability Models	After completion of this course learner will be able to: 1. Explain basic concepts of statistics and classify the statistical data. 2. Describe the concept of Central tendency and measures of Dispersion using the concept of statistics. 3. Solve problems related to probability theory.
SYAI/SEM3/ Introduction to Data Science-I	Introduction to Data Science-I	After completion of this course learner will be able to: 1. Describe process of Data science. 2. Compare Data science. 3. Explain Big Data life cycle.

SYAI/SEM3/Web Programming with (React & Angular)	Web Programming with (React & Angular)	After completion of this course learner will be able to: <ol style="list-style-type: none"> 1. Develop a web page using react components and react forms. 2. Apply javascript in web pages design. 3. Develop web pages using angularJS.
SYAI SEM 4		
SYAI/SEM4/Machine Learning	Machine Learning	After completion of this course learner will be able to: <ol style="list-style-type: none"> 1. Describe the basic theory underlying machine learning. 2. Identify and Select appropriate model of machine learning 3. Work with supervised machine learning and unsupervised machine learning.
SYAI/SEM4/ IoT	IoT	After completion of this course learner will be able to: <ol style="list-style-type: none"> 1. Describe various concepts, terminologies and architecture of IoT systems. 2. Apply various protocols for design of IoT systems 3. Connect APIs to IoT related technologies.
SYAI/SEM4/ Graph Theory	Graph Theory	After completion of this course learner will be able to: <ol style="list-style-type: none"> 1. Understand graph structures, operations and concepts. 2. Understand concepts and properties of trees and directed graphs. 3. Understand flowchart and graph algorithms.
SYAI/SEM4/ Introduction to Data Science-II	Introduction to Data Science-II	After completion of this course learner will be able to: <ol style="list-style-type: none"> 1. Describe Data cleaning technique. 2. Analyze data with data segmentation and data mining . 3. Cluster, Visualize and Communicate the data.

SYAI/SEM4/ Mechatronics	Mechatronics	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Identify different instruments, sensors, actuators, and components in mechatronics based systems. 2. Classify transducers for different mechatronics applications. 3. Classify sensor and actuator for different mechatronics based applications.
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Post Graduate Programmes		
<p>MCom Programme PSO: On completion of M.COM program, learners will be enriched with knowledge and be able to:</p> <p>PSO-1 - Understand new forms of Strategic Management concepts and their use in business PSO-2 - Inculcate research attitude and encourage research publications based on research projects. PSO-3 - Providing an insight into application of economic principles in business decisions and develop analytical ability of the students to provide them a foundation for further study of economics PSO-4 - Develop the skills in the cost assessment of all facets of a business, including the cost of products, processes and contracts. PSO-5 - Understand computation of Income Tax of individuals and registration and level of Goods and Service Tax. PSO-6 - Understand the concepts of Business, Entrepreneurship, Human Resource Management, E-Commerce, Business Ethics, CSR, Retail Management and apply in current business scenarios. PSO-7 - Equip the students with requisite knowledge, skills and right attitude necessary to provide effective leadership in a global environment.</p>		
Class/ Paper/ Semester	Title	Course Outcome
MCOM Part I/Sem 1	Cost and Management Accounting	After completion of this course learner will be able to: <ol style="list-style-type: none"> 1. Understand the nature, scope and utility of cost accounting, management accounting and cost accounting standards. 2. Apply the techniques of costing in the decision making in the business corporations. 3. Prepare various types of budget based on the need.
MCOM Part I/Sem 1	Strategic Management	After completion of this course learner will be able to: <ol style="list-style-type: none"> 1. Understand new forms of Strategic Management concepts and their use in business. 2. Provide information pertaining to Business, Corporate

		<p>and Global Reforms.</p> <p>3. Develop learning and analytical skills of the learners to enable them to solve cases and to provide strategic solutions.</p> <p>4. Acquaint the learners with recent developments and trends in the business corporate world.</p>
MCOM Part I/Sem 1	Economics for Business Decisions	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Understand the basic tools of economic theory and its practical applications. 2. Get familiarized with the understanding of the economic aspects of current affairs and thereby prepare them to analyse the market behaviour with economic way of thinking. 3. Develop analytical ability of the students and provide them a foundation for further study of economics. 4. Gain insight into application of economic principles in business decisions.
MCOM Part I/Sem 1	Financial Services	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Apply necessary skills in managing a financial service company. 2. Understand the basic functions of various financial services.
MCOM Part I/Sem 1	Business Ethics and Corporate Social Responsibility	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Understand the scope and complexity of Corporate Social responsibility in the global and Indian context. 2. Get acquainted with the Concept, Importance, Evolution, Principles of Corporate Governance and Regulatory Framework of Corporate Governance in India. 3. Acquire knowledge relating to the legal provisions and specification of CSR in India.
MCOM Part I/Sem 1	Research Methodology	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Understand, develop and apply the fundamental skills in formulating research problems. 2. Get acquainted with the understanding and development of the most appropriate methodology for their research. 3. Acquire knowledge relating to the basic statistical tools and techniques applicable for research.
MCOM Part I/Sem 2	Corporate Finance	<p>After completion of this course learner will be able to:</p> <ol style="list-style-type: none"> 1. Gain insight into the basics of corporate finance. 2. Apply various techniques to calculate time value of money. 3. Analyse the financial structure and status of business and take decisions accordingly.

MCOM Part I/Sem 2	E-Commerce	After completion of this course learner will be able to: 1. Identify current challenges and issues in E-commerce. 2. Develop an understanding of various business models. 3. Gain insight of Legal and Regulatory Environment and Security issues of E-commerce.
MCOM Part I/Sem 2	Macro Economics Concepts and Applications	After completion of this course learner will be able to: 1. Develop an understanding of the theoretical rationale behind policies at the country as well as corporate level. 2. Analyse crucial economic policies through strong understanding of fundamental economic concepts.
MCOM Part I/Sem 2	Organisational Behaviour	After completion of this course learner will be able to: 1. Understand the basic fundamentals of Organisational Behaviour, Personality, Perception and Attitude. 2. Gain insight of Group dynamics and behaviour.
MCOM Part I/Sem 2	International Trade and Finance	After completion of this course learner will be able to: 1. Understand the global trade, strategy and structure of international business. 2. Gain insight into the functioning of foreign exchange market. 3. Identify the foreign exchange risk and apply the hedging techniques to overcome the same.
MCOM Part II/Sem 3	Advanced Auditing	After completion of the course, learners would be able to: 1: Understand various provisions of Company audit and audit reports. 2: Get knowledge of audits of various forms of organisations. 3: Gain awareness about audit under different laws 4: Be familiar with audit procedures followed in a computerised environment.
MCOM Part II/Sem 3	Advanced Financial Accounting	After completion of the course, learners would be able to: 1: Apply knowledge about conversion of foreign currency into Indian currency to solve practical problems about foreign branches as per Accounting Standard 11. 2: Understand the provisions of Banking Regulation Act, 1949 and prepare Final Accounts for Banking Companies. 3: Get acquainted with the working of Insurance companies and prepare the Final accounts of Insurance Companies. 4: Acquire knowledge about provisions of Maharashtra State Co-operative Societies Act, 1960 and Rules and prepare Accounts of Co-operative Societies.

MCOM Part II/Sem 3	Direct tax	<p>After completion of the course, learners would be able to:</p> <ol style="list-style-type: none"> 1: Understand the basic concepts of income tax and determine residential status and scope of total income of an individual. 2: Calculate income under various heads of income and eligible amount of deductions for an individual. . 3: Compute taxable income and income tax of individuals, firms and companies. 4: Incorporate ethical practices while computing income and tax.
MCOM Part II/Sem 4	Financial Management	<p>After completion of the course, learners would be able to:</p> <ol style="list-style-type: none"> 1: Have an understanding of various sources of finance 2: Be familiar with various capital budgeting techniques 3: Have knowledge of different aspects of working capital management 4: Aware about various budgeting techniques
MCOM Part II/Sem 4	Corporate Financial Accounting	<p>Course Outcomes:</p> <p>After completion of the course, learners would be able to:</p> <ol style="list-style-type: none"> 1: Understand the need and recent trends in Corporate Financial Reporting. 2: Understand, interpret, analyse and apply International Financial Reporting Standards (IFRS) & Ind - AS 3: Calculate valuation of Business, Goodwill and shares for Amalgamation and Merger. 4: Prepare Consolidated Financial Statement.
MCOM Part II/Sem 4	Indirect Tax- Introduction of Goods and Service Tax	<p>After completion of the course, learners would be able to:</p> <ol style="list-style-type: none"> 1: Understand the basic overview of Goods and Services tax. 2: Understand and interpret the rules of registration and apply the same to the business. 3: Understand the legal provisions relating to collection of tax under Integrated Goods and Services Tax Act, 2017 4: Understand the legal provisions relating to place of supply of goods or services or both under Integrated Goods and Services Tax Act, 2017 and apply the same for calculation of tax liability. 5: Calculate GST liability of a business.
<p>MSc Microbiology PSO:</p>		
Class/ Paper/ Semester	Title	Course Outcome

MSc Chemistry PSO:		
Class/ Paper/ Semester	Title	Course Outcome
MA Psychology PSO: On completion of MA in Psychology program, learners will be enriched with knowledge and practical exposure to be able to: <p>PSO1- Understand the foundational and advanced theories in cognition, emotion, and behavior, drawing from cognitive science, positive psychology, and evolutionary psychology to analyze and interpret human behavior.</p> <p>PSO2- Inculcate practical skills in psychological testing and assessment, from test construction to the administration and scoring of diagnostic tools for both adults and children.</p> <p>PSO3- Understand the various models and approaches to intervention systems, including rehabilitation psychology, CBT, REBT, and eclectic therapy practices to support effective clinical interventions.</p> <p>PSO4- Inculcate multicultural awareness and competence by identifying and addressing issues of diversity, stereotyping, and discrimination, and applying these insights in real-world psychological assessments and interventions.</p> <p>PSO5- Understand the importance of ethical research methodologies, including quantitative and qualitative research, statistical applications, and the use of R for psychological data analysis.</p> <p>PSO6- Inculcate essential counseling and psychotherapy skills, including the practice of basic and advanced therapeutic techniques, communication skills, and knowledge of legal frameworks surrounding mental health in India.</p> <p>PSO7- Integrate clinical knowledge of psychopathology, diagnostic criteria, and etiological factors for psychological disorders in both adult and child populations, ensuring comprehensive case formulation.</p>		

Class/ Paper/ Semester	Title	Course Outcome
MA Psychology Part 1/ SEM 1	Evolutionary Psychology	After completion of this course learner will be able to: <ol style="list-style-type: none"> 1. Explain Darwinian selection and its role in shaping human behavior. 2. Understand psychological phenomena from an evolutionary perspective. 3. Outline applications of evolutionary theory
MA Psychology Part 1/ SEM 1	Psychology of Cognition and Emotion	After completion of this course learner will be able to: <ol style="list-style-type: none"> 1. Explain the advanced topics of cognitive science. 2. Summarize neuropsychological underpinnings of cognitive processes. 3. Apply cognitive psychology knowledge to real-life problems. 4. Outline theories, biological basis, and development of human emotions.
MA Psychology Part 1/ SEM 1	Positive Psychology	After completion of this course learner will be able to: <ol style="list-style-type: none"> 1. Develop an understanding of concepts of positive psychology. 2. Understand the different positive subjective states and processes. 3. Know and appreciate the importance of human strengths and virtues
MA Psychology Part 1/ SEM 1	Experimental Psychology Practicals	After completion of this course learner will be able to: <ol style="list-style-type: none"> 1. Know the process of designing and conducting experiments in various areas of psychology. 2. Able to analyze and report the data of experiments.
MA Psychology Part 1/ SEM 1	Communication and Social skills	After completion of this course learner will be able to: <ol style="list-style-type: none"> 1. Understand and apply basic and advanced communication skills. 2. Able to engage effectively with different types of conflict and social skills. 3. Understanding of basics of Transactional Analysis (TA).

MA Psychology Part 1/ SEM 1	Research Methodology for Psychology	After completion of this course learner will be able to: <ol style="list-style-type: none"> 1. Understand philosophy and ethics of research. 2. Outline methodology of quantitative and qualitative research. 3. Summarise process of designing research.
MA Psychology Part 1/ SEM 2	Multiculturalism: theory and Practice	After completion of this course learner will be able to: <ol style="list-style-type: none"> 1. Be able to identify issues of identity, stereotyping and discrimination in a multicultural society. 2. Outline issues of diversity and conflict in organizations. 3. Summarize the importance of multicultural assessment. 4. Explain specific multicultural competencies and interventions.
MA Psychology Part 1/ SEM 2	Rehabilitation Psychology	After completion of this course learner will be able to: <ol style="list-style-type: none"> 1. Develop an understanding of importance of rehabilitation and recovery in various conditions. 2. Explain the various types and models of rehabilitation. 3. Understand and address different issues in rehabilitation
MA Psychology Part 1/ SEM 2	Psychological Testing and Psychometrics Practicals	After completion of this course learner will be able to: <ol style="list-style-type: none"> 1. Understand the role of measurement in psychology. 2. Understand necessary steps involved in test construction. 3. Construct/develop and administer a psychological test. 4. Compute item analysis, reliability, validity, and norms for a psychological test.
MA Psychology Part 1/ SEM 2	Statistics for Psychology	After completion of this course learner will be able to: <ol style="list-style-type: none"> 1. Understand fundamental concepts about statistical application to psychology. 2. Apply statistical and numerical methods in research.

		3. Be able to use R for some statistical calculations.
MA Psychology Part 1/ SEM 2	Communication and Social Skills Module Conduction	After completion of this course learner will be able to: <ol style="list-style-type: none"> 1. Be able to understand the process of module development and conduction. 2. Be able to get first hand experience at developing and conducting modules on communication and social skills related topics.
MA Psychology Part 2/ SEM 3	Psychological Testing and Assessment (Adult)	After completion of this course learner will be able to: <ol style="list-style-type: none"> 1. Theoretically be introduced to the administration, conduction and scoring of various psychological tests used for psychodiagnostics. 2. Be competent in deciding which test to be used with clients.
MA Psychology Part 2/ SEM 3	Practicals in Psychological Testing and Assessment (Adults)	After completion of this course learner will be able to: <ol style="list-style-type: none"> 1. Know the process of administration of various tests and assessments batteries for adults. 2. Score, analyze, interpret and draft reports of the aforementioned tests and assessment batteries
MA Psychology Part 2/ SEM 3	Clinical Psychopathology (Adult)	After completion of this course learner will be able to: <ol style="list-style-type: none"> 1. Students will be able to understand criteria for diagnosis of disorders. 2. Students will be able to understand the etiology of disorders. 3. Students will be aware of Indian history and legal system related to mental health.
MA Psychology Part 2/ SEM 3	Intervention Systems in Psychology	After completion of this course learner will be able to: <ol style="list-style-type: none"> 1. Understand the various systems of psychological intervention. 2. Develop an eclectic, integrated approach to intervention.
MA Psychology Part 2/ SEM 3	Advanced Skills and Processes of Counseling and Psychotherapy	After completion of this course learner will be able to: <ol style="list-style-type: none"> 1. Use/practice basic and advanced skills for counseling and psychotherapy. 2. Understand therapeutic processes and related aspects of counseling and psychotherapy.
MA Psychology Part 2/ SEM 3	Research Project	After completion of this course learner will be able to: <ol style="list-style-type: none"> 1. Acquire advanced skills in conducting independent research, including formulating research questions, reviewing literature, and designing methodologies. 2. Analyze data, draw evidence-based conclusions, and

		effectively communicate findings through scholarly writing.
MA Psychology Part 2/ SEM 4	Psychological Testing and Assessment (Child)	After completion of this course learner will be able to: <ol style="list-style-type: none"> 1. Administer, interpret and score various psychological tests used for diagnosis and screening 2. Gain proficiency in test choice determination and report writing
MA Psychology Part 2/ SEM 4	Clinical Psychopathology (Child)	After completion of this course learner will be able to: <ol style="list-style-type: none"> 1. Understand the diagnostic criteria for disorders 2. Understand the etiology of disorders 3. Become aware of possible psychopathological manifestations in children
MA Psychology Part 2/ SEM 4	CBT AND REBT: Basics and Applications	After completion of this course learner will be able to: <ol style="list-style-type: none"> 1. Understand the theoretical underpinnings of CBT and REBT 2. Implement CBT and REBT skills and techniques
MA Psychology Part 2/ SEM 4	Career counseling and World of Work	After completion of this course learner will be able to: <ol style="list-style-type: none"> 1. Understand prevalent theoretical models of career development and counseling 2. Plan and implement career guidance interventions
MA Psychology Part 2/ SEM 4	Fieldwork in Clinical Psychology	After completion of this course learner will be able to: <ol style="list-style-type: none"> 1. Conduct clinical and behavioral observation, interview and case history 2. Perform assessments and plan interventions 3. Prepare case vignettes and reports