

**PROGRAM OUTCOMES, PROGRAM SPECIFIC OUTCOMES, COURSE  
OUTCOMES  
BACHELOR OF COMMERCE**

**Program Outcome**

- The students Apply basic mathematical and statistical skills necessary for analysis of a range of problems in economics, actuarial studies, accounting, marketing, management and finance
- This program could provide well trained professionals for the Industries, Banking Sectors, Insurance Companies, Financing companies, Transport Agencies, Warehousing etc.,
- to meet the well trained manpower requirements. The graduates will get hands on experience in various aspects acquiring skills for Marketing Manager, Selling Manager, Over all Administration abilities of the Company.

**Programme Specific Outcome**

- The students should possess the knowledge, skills and attitudes during the end of the B.com degree course. By virtue of the training they can become an Manager, Accountant , Management Accountant, cost Accountant, Bank Manager, Auditor, Company Secretary, Stock Agents, Government jobs etc.,

**Course Outcome:**

**Financial Accounting**

- Understanding the concepts of financial Accounting
- Exposure to nature and advantages of Accounting, Accounting concepts and conventions.
- Introduction to Accounting standards in India
- Obtaining the knowledge of computerized Accounting.
- Getting knowledge about accounting procedure of partnership firm, accounts of professionals, single entry system, branch accounts and consignment accounts.
- To know installment and hire purchases systems

**ENTREPRENEURSHIP DEVELOPMENT**

- Familiarize the students with the latest programs of the government authorities in promoting small and medium industries.
- Impart knowledge regarding how to start new ventures.
- Equip the students to have a practical insight for becoming an entrepreneur.

**FINANCIAL MANAGEMENT**

- Familiarise the students with the conceptual framework of financial management.
- Enable the students to understand the practical application of financial management. Provide conceptual and analytical insights to make financial decisions skilfully.

- Provide the students with a clear-cut idea about the functioning of Indian Capital Market
- Provide an in-depth knowledge on Capital Market

### **MANAGEMENT OF BANKING AND INSURANCE SERVICES.**

- Provide basic knowledge of the theory and practices of banking.
- Familiarize the students with the changing scenario of Indian Banking.
- Expose the students to the changing scenario of Indian banking.

### **CORPORATE ACCOUNTING**

- Enable the students to develop awareness about corporate accounting inconformity with the provisions of Companies Act, IAS and IFRS.
- Enable the students to prepare and interpret financial statements of joint stockcompanies in different situations.
- Expose the students to the accounting practices prevailing in the corporate.
- Exposure to the issue of shares and debentures of the company
- Attainment of knowledge about accounting procedure of company final account.
- Understanding the accounting procedure amalgamation and absorption of company
- Ability to get the knowledge about valuation of shares.
- Understanding the accounts procedure of liquidation of Ltd. company.

### **BUSINESS STATISTICS**

- Enable the students to gain understanding of statistical techniques as areapplicable to business.
- Enable the students to apply statistical techniques for quantification of data inbusiness.
- Develop the skill for applying appropriate statistical tools and techniques indifferent business situations.
- Making familiar with statistical tools which are relatively used in business.
- Imparting the ability to collect present, analyze and interpret data.
- Ability to predict trend values by using list square methodsin regression.

### **BUSINESS TAXATION**

- Familiarize the students about the fundamental concepts of Income Tax
- Enable the students to acquire the skills required to compute Gross Total Income with more emphasis on income from salary and income from house property.
- Impart the basic knowledge and understanding of the concepts and practices of Income Tax Law in India.
- Understanding basic concepts in Indian Tax Act.
- Obtaining the knowledge about tax free incomes.
- Acquiring the knowledge about general deductions from income.
- Exposure to income tax planning

- Knowing the procedure of calculation of income tax
- Understanding the procedure of e-filing of return and e-payment of tax.
- Getting known with application of principles and provisions of direct tax laws in computation of taxable income under various heads of income.

### **AUDITING**

- Understand the principles, techniques and practice of auditing
- Familiarise the students with the principles and procedure of auditing.
- Enable the students to understand the duties and responsibilities of auditors.
- Getting knowledge of vouching of cash and credit transactions.
- Knowing the appointment procedure of Auditor.
- Acquiring the skills of Audit program of co-operative societies and banks.
- Knowledge about writing of audit reports.

### **COST ACCOUNTING AND MANAGEMENT ACCOUNTING**

- Familiarize the students with cost concepts.
- To make the students learn cost accounting as a separate system of accounting
- Impart knowledge of cost accounting system and acquaint the students with the measures of cost control.
- Develop professional competence and skill in applying accounting information for decision making.
- Equip the students to interpret financial statements with specific tools of management accounting.
- Enable the students to have a thorough knowledge on the management accounting techniques in business decision making.

### **PRINCIPLES OF MARKETING**

- Enhancing the skill of marketing among students.
- Providing different techniques of marketing for increase of sales.
- Creating the sense how to behave in the market while buying or selling of product.
- Understanding how to undertake crucial task such as competition analysis, production etc.
- Providing information about buying pattern and different attitudes of consumers.

### **COST ACCOUNTING**

- Creating logical thinking power.
- Creating ability to take decision at different level of production activity like make or buy, project launching etc.
- Developing knowledge among students about cost ascertainment and fixation of selling price and cost control.

- Knowledge about presentation of cost accounting information for the purpose of decision making.
- Determination of profitable or unprofitable activity in business by using different cost accounting tools.
- Developing knowledge about preparation of tenders, quotations, etc.
- Helping in determining the product total cost and fixation of selling price.
- Creating skills about handling of various financial records, documentation, collection and classification of different costs.
- Enhancing the knowledge of business project analysis and cost planning and procedure.
- Getting known with how to publish information about production to management, consumer, Government, Employee at different levels for decision making purpose.

### **BUSINESS MANAGEMENT**

- Supporting to Achieve Group Goals.
- Knowledge about motivating employees by providing financial and nonfinancial incentives.
- Evaluating the economic growth and development of an organization.
- Understanding the relation between individuals, groups, departments and between levels of management.
- Comprehending the human resource productivity.

### **E-COMMERCE**

- Knowledge of technologies supporting E-commerce, including web services and electronic payment system.
- Recognition of fundamental principles of E-business and Knowledge about Electronic Data Interchange.
- Analysis of real business cases regarding their E-Business strategies and transformation processes and choices.

### **MARKETING MANAGEMENT**

- Marketing management helps the students to analysis product design, promotion, selling and distribution
- The students will focus more on the concepts and field work such as promotion, advertisement, research and sells.
- Marketing is the subject which gives us the detail information about customer, sellers manufactures etc.

### **BUSINESS LAW**

- It helps to understand the legal formalities require in business.
- It helps to resolve the legal issues occur in business.
- It helps to do business legally and not getting study by practicing and unethical things.

## **ENVIRONMENTAL STUDIES**

- Understanding environmental concerns by the students at the undergraduate level.
- Understanding the relationship of man with the environment and help them change his attitude for more positive, proactive, eco-friendly and sustainable lifestyles.
- Getting information about climate change, Global warming, Acid rain, Greenhouse effect, Ozone, layer depletion.
- Cultivating attitudes to safeguard the environment built particularly with field experience.
- Realization of the impact of human actions on the immediate environment and the linkage with the larger issues.
- Getting information about Environment Protection Acts.

**PROGRAM OUTCOMES, PROGRAM SPECIFIC OUTCOMES, COURSE  
OUTCOMES  
BACHELOR OF BUSINESS ADMINISTRATION(BBA)**

**PROGRAM OUTCOME**

- To make students understand the basic principles of business administration.
- To acquire the knowledge of functional areas of management like HR and Finance.
- To acquire entrepreneurial skills and analytical skills.
- To make student effectively coordinate and work in a team.
- To make students able to solve the problems and make proper decision by analyzing data.
- To provide for overall development of the students.

**PROGRAM SPECIFIC OUTCOME**

- Students have choice to pursue professional courses such as CA, MBA, CMA, ICWA, CS etc.,
- Students will be able to play role of businessmen, entrepreneur, managers, consultant, which will help the learners to possess knowledge and other soft skills.
- Developing specific managerial skills to own or manage business activities.

**COURSE OUTCOME**

**FINANCIAL ACCOUNTING**

- To enable the students to understand the concepts and conventions of accounting, and also accounting standards.
- Preparing financial statement in accordance with appropriate standards, Journal entries, ledger accounts cash book maintenance,
- To enable the students to understand partnership account like admission, retirement, death and dissolution of partnership.
- To understand the concept of branch accounting and its system, Hire purchase and installment System.
- To enable the students to understand consignment, Bills of exchange, depreciation
- To understand issue and redemption of shares and debentures, their types.
- Know the steps to liquidate the company, prepare liquidator's final statement of accounts.
- To have a knowledge of right share, bonus shares, stock option, e-trading, BSE, NSE, and SEBI.

**INDIAN BUSINESS ENVIRONMENT**

- Understanding business environment at national and international level.
- Knowledge about various forms of organizations.
- Study about Business Process Management.

- Measuring implementation and impact of Liberalization, Privatization and Globalization on Indian Economy.
- Justifying performance, role, function, merits and demerits of Foreign Capital, Multinational corporations and International Corporation (IMF, IBRD, WTO and SAARC).

### **ENVIRONMENTAL STUDIES**

- Understanding environmental concerns by the students at the undergraduate level.
- Understanding the relationship of man with the environment and help them change his attitude for more positive, proactive, eco-friendly and sustainable lifestyles.
- Getting information about climate change, Global warming, Acid rain, Greenhouse effect, Ozone, layer depletion.
- Cultivating attitudes to safeguard the environment built particularly with field experience.
- Realization of the impact of human actions on the immediate environment and the linkage with the larger issues.
- Getting information about Environment Protection Acts.

### **PRINCIPLES OF MANAGEMENT**

- Supporting to Achieve Group Goals.
- Knowledge about motivating employees by providing financial and nonfinancial incentives.
- Evaluating the economic growth and development of an organization.
- Understanding the relation between individuals, groups, departments and between levels of management.
- Comprehending the human resource productivity.

### **GLOBAL BUSINESS ENVIRONMENT**

- To familiarize with global business environment
- To make them understand about different trade policy on export and import
- To develop the knowledge about international business
- To create an awareness about various international trade, institutions (IMF, IBRD, IFC, IDA etc.,)
- To develop knowledge about different marketing strategies.

### **MANAGEMENT OF SERVICES AND MANAGEMENT INFORMATION SYSTEM**

- To acquire the knowledge of various service sectors banking and insurance hotel management, hospital and educational services etc., and managing the service sectors.

- To acquire the knowledge of event management like corporate event, private event, small event, grand event, musical events, sports events, fashion shows, trade fairs and exhibitions.
- To acquire the knowledge and structure of Management information system.
- Information of various levels of management, value of information in decision making.

### **QUANTITATIVE TECHNIQUES**

- To learn about laws of indices, laws of logarithms, and its applications
- To know arithmetic and geometric progression- business applications
- To learn about ratio proportions and percentages
- To learn about Matrices and determinants- operations and properties.

### **FUNCTIONAL MANAGEMENT**

- To know the role of management in modern organization
- To understand role of HR managers, Training and Development, placement, methods of wage payment.
- To understand role of Financial Manager- profit maximization, wealth maximization, financial decisions, working capital management.
- To Understand Production management-plant location, layout , production planning and control.

### **COST ACCOUNTING**

- To understand the concepts of cost accounting and to expertise in presenting cost centre and profit center, preparing cost sheet.
- To have the knowledge on material cost and its methodologies, classification of overheads.
- To have knowledge of computing wages under different methods.
- To understand the allocation, apportionment, re-apportionment and absorption of overheads.

### **MANAGEMENT ACCOUNTING**

- Apply management accounting concepts & tools for the decision making faced by a management.
- Apply management accounting concepts & tools to the take financial decisions & cost ascertainment.
- Apply the techniques of management accounting for Cost minimization & Profit maximization.
- Knowledge about Ratio Analysis, Various Budgets, Standard Costing Etc.,



## **BANKING IN INDIA**

- After the successful completion of the course the student will be able to know the functions of banks
- The students will be aware of credit control Measures of central Banking, Various banks etc.,
- Gain knowledge about duties and responsibilities of collecting and paying bankers.

## **COMMERCIAL LAW**

- It helps to understand the legal formalities required in business.
- It helps to resolve the legal issues that occur in business.
- It helps to do business legally.
- To know the different types of contract, methods of contracts.

## **COMPANY LAW**

- To know different types of Company, legal obligations, etc.,
- To enable students to know how to form a company
- to have knowledge about articles and memorandum of Association
- to have a knowledge of issue of share and debentures

## **ENTREPRENEURSHIP DEVELOPMENT**

- Entrepreneurship Development involves a wide range of training and experience and is designed to prepare students for starting and managing their own business.
- This is the subject which teaches the students how to start their own business, what quality an entrepreneur should have, what are the government schemes provided by small industries.
- It helps to get detailed knowledge about business plans and other things.

## **MARKETING MANAGEMENT**

- Marketing management helps the students to analyze product design, promotion, selling and distribution
- The students will focus more on the concepts and field work such as promotion, advertisement, research and sales.
- Marketing is the subject which gives us detailed information about customer, sellers, manufacturers etc.

## **FINANCIAL MANAGEMENT**

- This course enables the students with the knowledge about capital budgeting, working capital, cash management, and better financial management techniques.
- Financial decisions, Capital Structure decision, dividend policy.
- Apply the fundamental concepts & tools of Finance

- Apply financial management concepts & tools to the decision faced by a manager.
- Apply financial management concepts & tools to the financing decisions & dividend decisions faced by the firm.
- Evaluate the corporate governance structure of firms & examine the interactions between firm management & financial markets & Stakeholders.
- Appraise the risk profile of the firm.

### **BUSINESS STATISTICS**

- Acquaintance with some basic concepts in statistics. Making familiar with some elementary statistical methods of analysis of data viz. Measures of Central Tendency, Dispersion, Skewness and to interpret them.
- Analysis of data pertaining to attributes and to interpret the results.
- Acquainting with some basic concepts of probability. Ability to distinguish between random and non-random experiment. Ability to find the probabilities of various events.
- Ability to understand the concept of conditional probability and independence of events. Ability to distinguish between univariate and bivariate probability distribution.
- Ability to understand the concept of correlation and computation of correlation coefficient. Interpreting the value of correlation coefficient and its use in regression analysis.

### **INCOME TAX**

- To make the students know basic concepts of income tax
- To gain knowledge about various heads of income.
- Understand the various deductions given under various heads of income.
- To know the deduction available under section 80C to 80U of income tax Act.

### **BUSINESS DECISION THEORIES**

- Understanding the basic concepts of demand and supply and their determinants.
- Analyze how elasticity affects revenue, BEP and Demand analyze.
- Understanding the concepts of National Income and the methods of calculating National Income.
- To Know the price and output decisions of all forms of market structure and Application of price discrimination.
- Analyzing cost function and difference between short run and long run cost functions.

### **FINANCIAL SERVICES**

- Students learn about various financial services provided by NBFC's and Merchant Bankers.

- Create awareness about the roles and functions of stock exchange and e-trading
- To understand the rights and obligations of depositories, participants, issues and beneficial owners.
- Understand the consumer finance practices followed in India by banks and other financial institutions.

### **HUMAN RESOURCE MANAGEMENT**

- HRM helps to understand the man power status or condition in the organization.
- HRM helps to understand human recourse policies in the organization.
- HRM is the lifeblood of every origination flows by utilizing the human resources.
- HRM tells us how to deal with HR in decent manner.

### **INTERNATIONAL BUSINESS**

- International business helps to understand the EXIM procedure.
- International business helps to understand the EXIM documentation.
- International business helps to know the contribution done towards country's development.
- International business helps to understand the domestic and foreign market conditions.

**PROGRAM OUTCOMES, PROGRAM SPECIFIC OUTCOMES, COURSE  
OUTCOMES  
BACHELOR OF ARTS (ECONOMICS)**

**PROGRAMME SPECIFIC OUTCOMES**

- Understanding how different degrees of competition in a market affect pricing and output.
- Understanding the efficiency and equity implications of market interference, including government policy.
- Developing research knowledge in economics.
- Developing the skill of data collection & use of sampling techniques in research.
- Developing the knowledge about theories of economic growth & Development and issues of economic planning.
- Creating awareness about changing macro-economic policies and theories.

**PROGRAM OUTCOME**

- Present economic theory and applications in written and oral form.
- Demonstrate an understanding of microeconomic and macroeconomic theory.
- Apply economic theory to issues in fields of economics.
- Explain basic estimators and their properties, estimate economic models using data, test hypotheses, forecast, and interpret estimates.

**COURSE OUTCOMES**  
**INDIAN ECONOMY**

- Understanding characteristics, features, structural changes in Indian Economy.
- Comprehension of the nature and impact of New Economic Reforms on the Indian Economy.
- Knowing the problems of unemployment, poverty, rising economic and social inequality and problems of regional imbalances in India.
- Evaluating the changing role of agriculture, industrial and service sector and foreign sector in Indian Economy.
- Measuring the problems and prospects of cottage and small scale industries, and industrial sicknesses.
- Measuring the growth, volume, composition and direction of India's foreign trade and capital inflow since 1991.

## **MICRO ECONOMICS**

- Knowing the decision making of consumer and Identifying the nature of revenue and cost of production.
- Comprehending the demand function and production function and Realizing various production theories.
- Clarifying the meaning of Marginal, average, total revenue, and Marginal, average and total cost and its implication.
- Awareness of different markets structure and Understanding pricing in different markets, Judging the factor pricing.

## **MACRO ECONOMICS**

- Identifying the basic concepts and theories of Macro economics.
- Awareness about changing macro economics policies and theories and Understanding various concepts such as; GDP, GNP NNP, Personal Income, Disposable Income, Per Capita Income, and National Income.
- Identifying the factors determining gross domestic product, employment, the general level of prices, and interest rates.
- Realizing the law of markets, consumption function and investment function.
- Judging the role of fiscal policy and monetary policy in a Developing economy.
- Knowing features, phases and theories of trade cycles, Evaluating types, merits and demerits of taxes.
- Comprehending the role of public finance in developing economy.

## **BANKS AND FINANCIAL INSTITUTIONS**

- Understanding the meaning, function and role of commercial banking.
- Comprehending the procedure of an account opening, operating and closing.
- Knowing the structure, function and role of RBI in economic development.
- Judging the progress of financial inclusion.
- Evaluating the importance, characteristics and components of the financial Market.
- Understanding the role and types of development banks and Non banking financial intermediaries.
- Realizing the banking reforms and Basel norms-I and II.
- Identifying recent trends in Indian Banking such as E- Banking, MICR Clearing, ATMs, Credit cards and Debit Cards, Travelers Cheques, Gift Cheques, Demat Account.

## **ECONOMICS OF DEVELOPMENT**

- Understanding the concept and aspects of economic Development.
- Knowing the theories of economic growth & Development.
- Measuring the concept and issues of economic planning.
- Discussing the need, types and necessary conditions of economic planning.

## **INTERNATIONAL ECONOMICS**

- Elaborating the importance of the study of International Economics.
- Finding similarities and dissimilarities in inter-regional and international trade.
- Knowing the changes in the import-export policies of India.
- Evaluating various types of exchange rates and its merits and demerits.
- Discussing the types and effects of tariffs and quotas.
- Judging the function, merits and demerits of Foreign Capital, and International Corporation (IMF, IBRD, WTO and SAARC).
- Realizing the volume, composition and direction of Balance of trade and Balance of payments.

**PROGRAM OUTCOMES, PROGRAM SPECIFIC OUTCOMES, COURSE  
OUTCOMES  
BACHELOR OF ARTS(POLITICAL SCIENCE)**

**PROGRAM OUTCOME**

- Political Science and society – Understanding the inter relationship between policy decisions and its effects on society. This is achieved through a comprehensive teaching of the practice of public administration in India.
- Critical thinking – ability to analyse and predict socio political phenomena based on the study of existing socio economic determinants and past experiences.
- Effective citizenship-the course curriculum inculcates among students a basic understanding of the rights and duties of citizenship and thereby to act as responsible citizens through the observation of important days.

**PROGRAM SPECIFIC OUTCOME**

- Analysing the Indian Constitutional provisions, Major legislations and reforms
- Critical Evaluation of social, economic and political variables for a proper understanding of the plurality of Indian Society
- Building overall consciousness regarding national political history, International Relations and present Indian and western Political thinkers
- Developing Knowledge of administrative studies with special reference to Indian administrative structures and practices.

**COURSE OUTCOME**

**INTRODUCTION TO POLITICAL SCIENCE:**

- Students will understand the basics of the subject , learn evolution of political science

**INDIAN GOVERNMENT AND POLITICS**

- Opportunity to know about constitution, Government organs, fundamental rights and duties

**MAJOR POLITICAL IDEALOGIES**

- Students can understand ideologies of Socialism, Nationalism and Democracy

**INTRODUCTION TO INTERNATIONAL RELATIONS:**

- Opportunity to study other nation's politics and government.

- Students will be able to Know Changing role of Modern state.

**POLITICAL THOUGHT, POLITICAL SOCIOLOGY, PUBLIC ADMINISTRATION:**

- Students can study about political thinkers, Society and state concept to better understand the role of administration

**INDIAN GOVERNMENT AND POLITICS, PUBLIC POLICY, INTERNATIONAL RELATIONS**

- Great opportunity to understand Indian Government, Constitution, Decision Making.
- Student will be able to understand diplomacy, war and international relations.



**PROGRAM OUTCOMES, PROGRAM SPECIFIC OUTCOMES, COURSE  
OUTCOMES  
BACHELOR OF ARTS (SOCIOLOGY)**

**PROGRAM SPECIFIC OUTCOMES:**

- The primary objective is to encourage students to apply modern ideas, principles and methodologies in social to social related issues.
- To reflexively associate individual experiences with larger social structures and forces
- An attempt to more the subject more inter disciplinary and job oriented
- To help students appreciate and improve their human relationships and interpersonal communications.
- To give student an insight into group dynamics and knowledge of social structures and change.

**PROGRAM OUTCOME**

- Students will enhance knowledge and have a strong grasp of classical and contemporary sociological theories.
- Students will compare and contrast the different theoretical perspectives and connect the knowledge for practical information.
- Students will apply the theories to comprehend key social issues.
- Students will successfully design a research project.

**COURSE OUTCOMES**

**INTRODUCTION TO SOCIOLOGY**

- Students will develop a basic understanding of sociology
- Defines sociology
- Illustrates the sociological perspectives of Empiricist, humanist and Empiricist, humanist
- Apply the sociological imagination to her/his own life
- Students will acquire detailed knowledge of important social institutions, policies and cultural frameworks.
- Students will learn how the foregoing social structures can both contribute to and ameliorate observed social line qualities.
- Students will compare and analyze social life across cultures.

**FOUNDATIONS OF SOCIOLOGY**

- Students will demonstrate an understanding of the stages of human development, the socialization process, and deviation from the norms of society.
- To analyze the nature of deviance, its impact on society, and evaluate methods of social control societies implement

## **STUDY OF INDIAN SOCIETY**

- India as pluralistic society.
- Marriage and its trends in marriage—its future prospects
- Changing Indian social structure

## **PIONEERS OF SOCIOLOGY**

- Analyze the historical theories of Comte, Durkheim, Marx, Weber, & Spencer.
- Intellectual context and enlightenment
- The French and Industrial Revolution

## **CONTEMPORARY SOCIAL PROBLEMS**

- How social problems are defined and how they differ from personal issues.
- Nature and causes of social problems.
- Identify problems and frame research questions relating to humans and their experience.
- The theoretical and policy implications of social problems
- Create awareness about the social problems in India and how it can be tackled through practical suggestions.

## **RURAL SOCIETY AND RECONSTRUCTION**

- Understand the origin and development of rural sociology
- To analyze the significance of village studies
- Critically analyze agrarian movements
- Rural society in transition—its changes and developments

## **SOCIAL STRATIFICATION AND MOBILITY**

- Historical development of social stratification
- Forms of social stratification
- Social mobility

## **SOCIOLOGY OF GENDER**

- Student is able to understand how gender shapes our cultural experiences.
- Gender shapes threats, media, and gender inequality.
- Gender inequality is manifested in social institutions, from work to education to the family

## **POPULATION STUDIES**

- Demographic concepts, theories and principles.
- Contemporary population issues using sociological theory and methods.

- The population as constraints and resources of developments
- Theories of population

### **RESEARCH METHODOLOGY**

- To critically assess published research and how to publish articles
- It will develop theoretically informed hypotheses.
- Articulate the basic tenets of the quantitative & qualitative methods used in sociology.

### **INDUSTRIAL SOCIOLOGY**

- The course aims to provide you with an understanding of the ways in which the process of industrialization has shaped societies.
- The areas that are covered in this regard include technology and its influence on the workplace, and the influence of gender and class in the study of work.
- To understand some of the salient factors that influence job satisfaction.
- It will also review the nature of relations among workers, and between workers and management.

### **URBAN SOCIOLOGY**

- Sociological Perspectives on Urban Life
- Seek to study the structures, processes, changes and problems of urban areas
- Growth of Urbanization in India.

**PROGRAM OUTCOMES, PROGRAM SPECIFIC OUTCOMES, COURSE  
OUTCOMES  
BACHELOR OF SCIENCE (PHYSICS)**

<b>Programme Outcome</b>	1.Develop, implement the plan of action to acquire new knowledge for specific scientific goals in pursuit of new intellectual interests 2.Students should be able to critically assess current state of knowledge and expertise.
<b>Programme Specific Outcome</b>	1.Students are expected to acquire core knowledge in physics with special focus on mechanics, quantum mechanics, electromagnetic theory, electronics, optics, special theory of relativity and Modern Physics 2.Learn how to design and conduct experiments demonstrating their understanding of the scientific methods and processes. 3. Realization of the impact of physics and science on society.
<b>Course Outcomes</b>	
<b>Courses</b>	<b>Outcomes</b>
<b>Mechanics, Properties of Matter and Sound</b>	1.To understand the motion of point mass, Conservation laws, gravitation, rotational motion 2.To understand the concepts Properties of matter and sound 3.Students should be able to solve complex and diverse problems in classical mechanics , properties of matter and sound.
<b>Heat and Thermo Dynamics</b>	To understand the basic principle of the laws of Thermodynamics, concepts of Entropy
<b>Optics</b>	1.To understand the basic concepts of wave optics, physical optics and geometrical physics 2.Learn to conduct the experiments demonstrating the understanding of wave optics.
<b>Atomic Physics and Spectroscopy</b>	Study of Modern Physics in the field of interaction of matter, effect of electric field and magnetic field and to learn the behavior of atoms/molecules in various energy states
<b>Electronics</b>	1.To acquire knowledge and apply it to various electronic instruments 2.To motivate the students to apply the principles of electronics in their day-to-day life. 3.To learn the logic gates and to understand the action and application of Counters
<b>Electricity and Electromagnetism</b>	1.To know the concepts of Electricity ,Gauss law, Faraday's Law, Inductance, Alternating Current Circuits,Direct Current Circuits, Network Theorem 2.To understand Electromagnetic theory and problem solving skills
<b>Quantum Mechanics and Relativity</b>	1.Develop the concepts of modern physics: basic knowledge of special theory of relativity and general theory of relativity, elementary quantum mechanics, nuclear physics, and particle physics 2. Understand the relationship between observation and theory and their use in building the basic concepts of modern physics. 3.Understand how major concepts developed and changed over time.

	4. Capable of analyzing and solving problems using oral and written reasoning skills based on the concepts of modern physics.
<b>Solid state physics</b>	<ol style="list-style-type: none"> <li>1. Understand basic concepts and mathematical methods of solid state physics.</li> <li>2. Obtaining the variables derived by problem solving method.</li> <li>3. Explore important connections between theory, experiment, and current applications.</li> <li>4. Develop a basis for future learning and work experience</li> </ol>
<b>Nuclear Physics</b>	<ol style="list-style-type: none"> <li>1. Acquire knowledge in the content areas of nuclear and particle physics, focusing on concepts that are commonly used in this area</li> <li>2. Develop and communicate analytical skills in subatomic physics.</li> <li>3. Develop familiarity with the vast areas of nuclear and particle physics as well as develop an interest in these subjects.</li> </ol>

**PROGRAM OUTCOMES, PROGRAM SPECIFIC OUTCOMES, COURSE  
OUTCOMES  
BACHELOR OF SCIENCE (CHEMISTRY)**

**PROGRAM SPECIFIC OUTCOMES**

- 1 Creating interest in environmental issue.
- 2 Increasing working knowledge of instruments.
- 3 Obtaining the knowledge of pharmaceutical tables
- 4 Social awareness about the quality of water.
- 5 Increasing the practical skill of the students
- 6 Awareness about plastic garbage.

**PROGRAM OUTCOME**

- The curriculum is designed in such way that students should acquire the ability to observe the concepts accurately and think impartially, scientifically, independently and draw rational conclusions.
- Being Chemistry students they become well conversant with various pollutants their sources and their impact on biosystem. So they become well-informed with protection and conservation of environment
- Program curriculum inculcates the curiosity and problem solving approach which makes them self directed and learning becomes a continuous process throughout the life

**COURSE OUTCOMES**

**GENERAL CHEMISTRY-I**

- The knowledge of the basic terms, facts, concepts, processes, techniques and principles of the subject along with ability to apply the principles of Chemistry are acquired by the student.
- The attitudes towards Chemistry such as concern for accuracy and precision, objectivity, initiative and inventiveness are developed by the student.

**GENERAL CHEMISTRY –II**

- Problem solving skills along with the proper handling of apparatus and chemicals are developed by the students.
- The students are also exposed to the different processes used in industries and their applications.

### **GENERAL CHEMISTRY –III**

- Knowledge about the scope and limitations as well as the mechanisms of organic reactions are acquired by the students.
- To understanding of basic chemical concepts in sufficient depth to provides the students an adequate foundation for specialization.
- The spirit of inquiry and search for new ways in which materials may be used in the service of mankind along with the appreciation of the interrelationships among Chemistry, Biology, Physics, Mathematics and other subjects are made known to the students.

### **GENERAL CHEMISTRY –IV**

- A better perspective of the subject along with a deeper knowledge in all branches of chemistry is acquired by the students.
- Thermodynamic concepts like energetics of chemical reactions whether the reaction can proceed in the forward or backwards direction and other concepts are learnt by the students.

### **PHYSICAL CHEMISTRY –II**

- An in depth study of electro chemistry along with introduction to the concepts essential to the understanding electrode reactions and certain applications of electrochemistry is acquired by the students.
- The fundamental aspects of fuel cells and electro chemical energy conversions and concepts of ionic equilibria are learnt by the students

### **ORGANIC CHEMISTRY**

- The knowledge of thermodynamic concepts of metallurgy, uses of few inorganic polymers and their preparation is acquired by the students.
- Students are exposed to the chemistry of abrasives, refractory and ceramic materials along with preparation and application of nanomaterials, CN tubes, nanowires etc.
- Concepts of organometallic chemistry like understanding M-C bond, uses of organometallic compounds in the homogenous catalysis and industrial applications such as Wilkinson catalyst and zeiglernatta catalyst are learnt by the students.

### **INORGANIC CHEMISTRY**

- Contribution to mankind in the form of dyes, drugs, food, fuel, polymers etc., Mechanisms of chemical reactions- green chemistry, special techniques in organic synthesis polymer chemistry, spectroscopy of organic molecules.

**PROGRAM OUTCOMES, PROGRAM SPECIFIC OUTCOMES, COURSE  
OUTCOMES  
BACHELOR OF SCIENCE (MATHEMATICS)**

**PROGRAM SPECIFIC OUTCOMES**

- Formulate and analyse mathematical problems, precisely define the key terms and draw clear and reasonable conclusions.
- Use mathematical techniques to solve well defined problems and present their mathematical work, both in oral and written format to students.
- Read, understand and construct correct mathematical proofs.
- Explain the importance of mathematics and its techniques to solve real life problems and provide the limitations of such techniques and the validity of the results.
- Continue to acquire mathematical knowledge and skills.
- Motivate students for higher studies and research.
- Prepare students to work independently and collaborate effectively in team work and team building.
- Understand mathematical ideas from basic axioms.
- Identify the applications of mathematics in other disciplines and society.
- To introduce concepts of mathematics with emphasis on analytical ability & computational skill needed in competitive examinations.

**PROGRAM OUTCOME**

- Apply the knowledge of science fundamentals to solve problems in chosen field.
- Identify and review literature, thereby analyzing problems to arrive at substantiated solutions using the basic principles of science.
- Apply reasoning to assess the societal issues like health, safety, legal and cultural to dominate the need for sustainable development.
- Apply ethical principles and commit to the professional ethics and norms.
- To understand the impact of responsibility of pursuing the environment and demonstrate the need for sustainable development.
- Function effectively as an individual and as member or leader in diverse teams in multi – disciplinary settings.
- Demonstrate the knowledge of the understanding of the fundamental principles and apply the same in one’s own practice and to manage environment.
- Recognize the need for and have the preparation and ability to engage in independent and lifelong learning in the broadest context of latest technology.



## **COURSE OUTCOME**

### **DIFFERENTIAL CALCULUS:**

- To find the nth derivatives of functions
- Apply the Leibnitz's theorem for finding nth derivative of product of two functions.
- Apply the chain rule for functions of several variables.
- Apply Taylor's and Maclaurin's series for finding series expansions of functions and approximating values.
- Understand the concept of indeterminate forms, their occurrence in problems and their evaluation
- Describe the concepts and applications of derivatives and higher order derivatives
- Understand the ideas of derivatives and higher order derivatives
- Develop skill in finding the partial derivatives of functions of several variables and various rules associated.

### **INTEGRAL CALCULUS:**

- Definite Integrals, properties and Reduction formula.
- Acquire the basic ideas of double and triple integral.
- Apply the techniques of double and triple integral to various problems of finding length of plane curves, surface areas and volumes of surfaces of revolution
- Change variables in multiple integrals.
- Improper Integrals- Gamma and beta functions and results, connection between Beta and Gamma function, Applications of evaluation of integrals, Duplication formula.

### **DIFFERENTIAL EQUATIONS.**

- Different methods to solve first order, first degree linear differential equations.
- Determine solutions to second and higher order linear differential equations (homogeneous and non homogeneous) with constant coefficients.
- Acquire the idea for solving the first and higher order partial differential equations.

### **ALGEBRA.**

- To understand the concept of theory of equations and methods to solve equations of different degree-Cardon's method, Descarte's method.
- Learn more about matrices and matrix methods to solve system of equations by verifying consistency of equations.
- Acquire the basic knowledge of Number Theory and standard theorems.

### **GROUP THEORY-**

- Acquire the basic knowledge and the structure of Group, Subgroup and Cyclic Groups.
- Explain the significance of the notion of a normal subgroup, and of a simple group.

- Analyze and demonstrate examples and theorems on subgroups, normal subgroups and quotient groups.
- Use Lagrange's Theorem to analyze the cyclic subgroups of a group.
- Acquire the notion of permutations and operations on them.
- Prove Cayley's theorem and understand its applications.
- Develop an idea about Isomorphism, homomorphism and automorphism.

### RINGS AND FIELDS-

- Describe the characteristics of a ring, subring, integral domain, field, quotient ring, ideals, units and associates. b) polynomial ring and Homomorphism.
- **vector spaces-** Definition and examples. Theorems on linear combination, linear span, linear dependence, independence, Basis and Dimension of vectors. Homomorphism and Isomorphism of vector space and direct sums.
- **linear transformations-** Definitions, linear maps as matrices, rank and nullity theorem, Eigen values and Eigen vectors of a linear transformation.

### REAL ANALYSIS:

- Real Sequences- Definition, bounded, unbounded, Infimum, supremum and limit of sequences. Standard theorems on limits. Convergent, divergent and oscillatory sequences, monotonic sequence, Cauchy's general principle of convergence,
- Infinite Series- Definition, Convergence, divergence and oscillation of series. Geometric series, p series, Tests of convergence of series, Alternating series.

### COMPLEX ANALYSIS:

- Function of a complex variable- Equation of a circle and straight line in complex form, limit, continuity and differentiability, Analytic functions, Cauchy- Riemann Equations in Cartesian and polar forms, Harmonic functions, theorems on Analytic functions, Constructions of Analytic Functions- Milne Thomson method and using the concept of Harmonic functions.
- Complex Integration- The complex line integral, Cauchy's Integral theorem, Integral Formulae for the function and the derivatives. Applications to the Evaluations of simple line Integrals, Cauchy's Inequality, Liouville's theorem, Fundamental theorem of algebra.

### APPLIED MATHEMATICS:

- Laplace Transforms- Definition and basic properties, Laplace Transforms of standard functions, Derivative of functions, Integral of functions,  $\alpha$ - functions. Inverse Laplace Transforms-properties and theorems, convolution theorem, solution of differential Equations with constant coefficients by laplace transforms.
- **Fourier Series-** periodic functions, even and odd function, Euler formula, fourier series and half range series.

### **NUMERICAL ANALYSIS-**

- Numerical solution of Algebraic and transcendental Equations.
- Numerical solutions of first order linear differential Equations.
- Finite differences.
- Numerical integration.

### **RIEMANN INTEGRATION:**

- Upper and lower sums, criterion for Integrability, Integrability of continuous and monotonic functions, Fundamental theorem of calculus, Change of variables, Integration by parts, first and second Mean value theorems of Integral calculus.

### **VECTOR CALCULUS-**

- Vector field and Scalar field. Gradient of a Scalar field, Divergence and curl of a Vector field, standard Derivations, Vector Integration using Green's theorem.

**PROGRAM OUTCOMES, PROGRAM SPECIFIC OUTCOMES, COURSE  
OUTCOMES  
BACHELOR OF SCIENCE (BOTANY)**

**PROGRAM OUTCOME**

- Acquire the knowledge with facts and figures related to various subjects in pure sciences such as Physics, Chemistry, Botany, Zoology, Mathematics, etc. Understood the basic concepts, fundamental principles, and the scientific theories related to various scientific phenomena and their relevancies in the day-to-day life. Acquire the skills in handling scientific instruments, planning and performing in laboratory experiments
- Convey and practice social, environmental and biological ethics.
- Environment and Sustainability: Insist the significance of conserving a clean environment for perpetuation and sustainable development.
- Self-directed and Life-long Learning: study incessantly by self to cope with growing competition for higher studies and employment.

**PROGRAM SPECIFIC OUTCOMES**

- Identifying different resources helpful for human life.
- Identifying different groups of plants
- Acquiring knowledge about inheritance, biochemical and metabolic activities.
- Development of horticultural skill.
- Acquiring knowledge about importance of environment.

**COURSE OUTCOME**

**DIVERSITY IN NON-VASCULAR PLANTS. & ALGAE, FUNGI, BRYOPHYTES AND INDUSTRIAL APPLICATIONS.**

- Developing interest in plant diversity.
- Developing skill of identification of Algae, Fungi and Bryophytes.
- Creating interest in biological industry.

**PLANT BIOCHEMISTRY, PHYSIOLOGY AND ECOLOGY.& PLANT PHYSIOLOGY, ECOLOGY AND HORTICULTURE**

- Acquiring basic knowledge about biochemical, physiological mechanism in plants.
- Imparting knowledge of Horticulture.

**DIVERSITY IN VASCULAR PLANTS. & PTERIDOPHYTES, GYMNOSPERMS, ANGIOSPERMS AND ANATOMY.**

- The student can understand the knowledge about
- Diversity in vascular plant.
- Characters of vascular plants and classification of plants.

- External & internal characters of plants.
- 

### **CYTOLOGY, GENETICS AND UTILIZATION OF PLANTS.& CYTOGENETIC AND UTILIZATION OF PLANTS.**

- Students should be able to know
- Structure of cell.
- Types of organisms and characteristics.
- History, distribution, structure and functions of different cell organelles,
- Transmission of character
- Mendelism.
- Resource of plants to fulfill the basic needs.
- Genetic disorder
- Molecular biology

**PROGRAM OUTCOMES, PROGRAM SPECIFIC OUTCOMES, COURSE  
OUTCOMES  
BACHELOR OF SCIENCE (ZOOLOGY)**

**PROGRAM OUTCOME**

- Apply the knowledge of various branches of Zoology and General biology meant both for a graduate terminal course and for higher studies.
- Develop positive attitude towards wild life conservation & environment protection
- Understand the unity of life with their rich Bio-diversity of organisms and their ecological and evolutionary significance
- Acquire basic skills in the observation and study of nature, biological techniques, experimental skills and scientific investigation

**PROGRAM SPECIFIC OUTCOMES:**

- Identify and list out common animals species
- Explain various physiological changes in our bodies
- Analyze the impact of environment on our bodies
- Understand various genetic abnormalities
- Develop respect for wild life environment.

**ANIMAL DIVERSITY –I**

- To be Familiar with the non-chordate animals around us.
- To be Able to appreciate the process of evolution (unicellular cells to complex, multicellular organisms)
- To be Able to identify the invertebrates and classify them up to the class level with the basics of systematic
- Understand the basis of life processes in the non-chordates and recognize the economically important invertebrate fauna.

**ANIMAL DIVERSITY II**

- To Describe the diversity in form, structure and habits of vertebrates
- To Explain general characteristics and classification of different classes of Vertebrates

**BIOCHEMISTRY AND ANIMAL PHYSIOLOGY**

- Understand the function of various systems and Apply the knowledge to lead a healthy life
- Understand the importance of Bio molecules and Familiar with various biochemical pathways
- Understand the chemical nature of life and life process.
- Get an idea on structure and functioning of biologically important molecules.
- Help to explore new developments in biochemistry.

## **CELL AND MOLECULAR BIOLOGY**

- Develop deeper understanding of what life is and how it functions at cellular & Molecular level
- Describe cellular membrane structure and function, fine structure and function of cell organelles.
- Understanding on the details of the basic unit of life at the molecular level.
- Explain the fine structure and functions of cell organelles and Molecular Mechanisms.
- Introduce the new developments in molecular biology and its implications in human welfare.
- Expose the learners to the emerging field of research in Molecular Biology.

## **DEVELOPMENTAL BIOLOGY AND ENDOCRINOLOGY**

- Familiar with various stages involved in the developing embryo
- Apply the knowledge to collect various Biological data
- Understand the initial developmental procedures involved in *Amphioxus*, frog and chick
- Familiar with types of placenta
- Familiarize with the principle of developmental biology
- Familiarize with various Techniques and tools of Embryology
- To study different endocrine glands and their secretion and function

## **APPLIED ZOOLOGY**

- Identify various methodology and perspectives of applied branches of zoology for the possibilities of self-employment.
- Learn the basic principles involved in the culture and breeding of common edible and ornamental fishes of Karnataka and the art of aquarium keeping, bee keeping, aquaculture, vermiculture etc.,

## **GENETICS AND EVOLUTION**

- To study principles of evolution, evidences of evolution, organic evolution.
- Appreciate the contribution of great scientists
- Distinguish Classical Genetics and Molecular Genetics
- Understand the applications of Biotechnology
- Familiar with the tools and techniques of Genetics and Biotechnology

## **ENVIRONMENTAL BIOLOGY**

- To understand basic principles of ecology, environment conservatism
- To create awareness among students to protect Natural resources available on the earth.
- To create awareness about environment pollution and its impact.
- Enable the learner to understand, think and evolve strategies for management and conservation of environment for sustaining life on earth.
- Motivation for further studies and research in the field.

- Developing Observational, Analytical and Evaluation skills related to develop scientific attitude and Problem solving ability.



**PROGRAM OUTCOMES, PROGRAM SPECIFIC OUTCOMES, COURSE  
OUTCOMES**

**BACHELOR OF SCIENCE (COMPUTER SCIENCE)**

**PROGRAM SPECIFIC OUTCOMES**

- Effectively communicating computing concepts and solutions to bridge the gap between computing industry experts and business leaders to create and initiate innovation.
- Ability to use approximate system design notations and apply system design engineering process in order to design, plan and implement software systems.
- preparing for a career in an information technology oriented business or industry or for graduate study in computer science or other scientific or technical fields.
- Ability to complete successfully to program small –to-mid-size programs on their own.
- Effectively utilizing the knowledge of computing principles and mathematics theory to develop sustainable solutions to current and future computing problems.
- Developing and implementing solution based system and/or process that address issues and/or improve existing systems within a computing based industry.

**PROGRAM OUTCOME**

- An ability to apply knowledge of computing and mathematics appropriate to the discipline.
- An ability to identify, formulate, and develop solutions to computational challenges.
- An ability to design, implement, and evaluate a computational system to meet desired needs within realistic constraints.
- An ability to function effectively on teams to accomplish shared computing design, evaluation, or implementation goals.
- An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computational systems in a way that demonstrates comprehension of the tradeoffs involved in design choices.

**COURSE OUTCOME**

**COMPUTER CONCEPTS AND C PROGRAMMING**

- Bridge the fundamental concepts of computers with the present level of knowledge of the students.
- Familiarise operating systems, programming languages, peripheral devices, networking, multimedia and internet
- Understand binary, hexadecimal and octal number systems and their arithmetic.

- Understand how logic circuits and Boolean algebra forms as the basics of digital computer.
- Demonstrate the building up of Sequential and combinational logic from basic gates.
- Know the basic components of the computer and working of each device.
- Understand the representation of data in computer.
- Know the difference between Assembly and High level programming Languages.
- Design Algorithms and Flowcharts
- Understand the functions of Operating System
- Understand the fundamentals of C programming.
- Choose the loops and decision making statements to solve the problem.
- Implement different Operations on arrays.
- Use functions to solve the given problem.
- Understand pointers, structures and unions.
- Implement file Operations in C programming for a given application

### **DATA STRUCTURES (DS)**

- Student will be able to choose appropriate data structure as applied to specified problem definition.
- Student will be able to handle operations like searching, insertion, deletion, traversing mechanism etc. on various data structures.
- Students will be able to apply concepts learned in various domains like DBMS, compiler construction etc.
- Students will be able to use linear and non-linear data structures like stacks, queues , linked list etc.

### **DATABASE MANAGEMENT SYSTEMS**

- The learner will be able to describe data models and schemas in DBMS
- To understand the features of database management systems and Relational database.
- To use SQL- the standard language of relational databases.
- To understand the functional dependencies and design of the database.
- To understand the concept of Transaction and Query processing.

### **DESIGN AND ANALYSIS OF ALGORITHMS COURSE OUTCOMES:**

- Ability to analyze the performance of algorithms.
- Ability to choose appropriate algorithm design techniques for solving problems.
- Ability to understand how the choice of data structures and the algorithm design methods impact the performance of programs.
- To clear up troubles the usage of set of rules design methods

## **DATA COMMUNICATION AND COMPUTER NETWORKS COURSE OUTCOMES:**

- Students should be understand and explore the basics of Computer Networks and Various Protocols. Student will be in a position to understand the World Wide Web concepts.
- Students will be in a position to administrate a network and flow of information further he/she can understand easily the concepts of network security, Mobile and ad hoc networks.
- Able to introduce the fundamental various types of laptop networks.
- Get introduce with demonstration of the TCP/IP and OSI fashions with merits and demerits.
- Awarded with the knowledge to explore the various layers of OSI model.

## **OPERATING SYSTEMS**

- The role of operating system as System software.
- Compare the various algorithms and comment about performance of various algorithms used for management of memory, CPU scheduling, File handling and I/O operations.
- Apply various concept related with Deadlock to solve problems related with Resources allocation, after checking system in Safe state or not.
- To appreciate role of Process synchronization towards increasing throughput of system.
- Describe the various Data Structures and algorithms used by Different OS.

## **OBJECT-ORIENTED PROGRAMMING WITH C++**

- Understand the features of C++ supporting object oriented programming
- Understand the relative merits of C++ as an object oriented programming language
- Understand how to apply the major object-oriented concepts to implement object oriented programs in C++, encapsulation, inheritance and polymorphism
- Understand advanced features of C++ specifically stream I/O, templates and operator overloading

## **WEB DESIGNING WITH HTML**

- Be able to use the HTML programming language
- Resolves written HTML codes.
- Runs the page designed using HTML code

## **COMPUTER NETWORK**

- Describe the functions of each layer in OSI and TCP/IP model.
- Explain the functions of Application layer and Presentation layer paradigms and Protocols.
- Describe the Session layer design issues and Transport layer services.
- Classify the routing protocols and analyze how to assign the IP addresses for the given network.

- Describe the functions of data link layer and explain the protocols.
- Explain the types of transmission media with real time applications

### **NUMERICAL ALGORITHMS AND OPERATION RESEARCH.**

- On completion of this module the learner should be able to:  
Apply appropriate algorithms to solve selected problems, both manually and by writing computer programs
- Compare different algorithms with respect to accuracy and efficiency of solution.
- Analyze the errors obtained in the numerical solution of problems.
- Using appropriate numerical methods, determine the solutions to given non-linear equations.
- Using appropriate numerical methods, determine approximate solutions to systems of linear equations.
- Using appropriate numerical methods, determine approximate solutions to ordinary differential equations.
- Demonstrate the use of interpolation methods to find intermediate values in given graphical and/or tabulated data.
- Be able to understand the characteristics of different types of decision-making environments and the appropriate decision making approaches and tools to be used in each type.
- Be able to build and solve Transportation Models and Assignment Models.

### **ASP.NET LEARNING OUTCOMES:**

- At the end of the course the participant will Create a Web form with server controls.
- Separate page code from content by using code-behind pages, page controls, and components.
- Debug ASP.NET page.
- Creating Web Forms
- Adding ASP.NET Code to a Page
- Handling Page Events

### **OBJECT ORIENTED PROGRAMMING WITH JAVA**

- Implement Object Oriented programming concept using basic syntaxes of control Structures, strings and function for developing skills of logic building activity.
- Identify classes, objects, members of a class and the relationships among them needed for a finding the solution to specific problem
- Demonstrates how to achieve reusability using inheritance, interfaces and packages and describes faster application development can be achieved.

- Demonstrate understanding and use of different exception handling mechanisms and concept of multithreading for robust faster and efficient application development.
- Identify and describe common abstract user interface components to design GUI in Java using Applet & AWT along with response to events

**PROGRAM OUTCOMES, PROGRAM SPECIFIC OUTCOMES, COURSE  
OUTCOMES  
BACHELOR OF SCIENCE (BIOTECHNOLOGY)**

**PROGRAM SPECIFIC OUTCOME**

Biotechnology is the exploitation of natural resources at the microbial and molecular level to produce a product of improved quality for the benefit of mankind. The work of Bio technologists is interdisciplinary in nature which requires working together with scientific researchers from disciplines such as computer science, microbiology, immunology, molecular biology, genetics, biochemistry, chemistry, food science, agriculture and engineering with other inputs from economists, policy makers, legislators etc.

**PROGRAMME OUTCOME**

- The department is adequate and competent to impart and train the students in the core areas of Biotechnology and also enrich the students with a better practical experience handling the latest equipment.
- Student who is interested in this subject should have keen aptitude interest in biotechnology and have the ability to work independently, knowledge of computer, problem solving mind, analysing and interpretation skill.
- The course provides opportunities for higher studies in Biotechnology and molecular biology which nurtures them to be future research scientist, Entrepreneur, Industrialist, Professors and legal policy makers

**COURSE OUTCOME**

- **BIOMOLECULES AND MICROBIOLOGY**

Strive to learn more the molecules that are body is made up.

Microbiology is a broad discipline that involves the study of the biology of bacteria, viruses, protozoa and fungi. The main focus of the course is the pathogenic potential of the organisms that cause disease in man and plant.

- **ENZYMOMOLOGY AND CELL METABOLISM**

The scope of *enzymology* is the study of enzymes, their kinetics, structure, and function, as well as their relation to each other.

Metabolism is the set of life-sustaining chemical reactions in organisms. The three main purposes of metabolism are: the conversion of food to energy to run cellular processes; the conversion of food/fuel to building blocks for proteins, lipids, nucleic acids, and some carbohydrates; and the elimination of nitrogenous wastes.

- **CELL BIOLOGY AND GENETICS**

Students will understand the structures and purposes of basic components of prokaryotic and eukaryotic cells, especially macromolecules, membranes, and organelles.

How these cellular components are used to generate and utilize energy in cells. Students will understand the cellular components underlying mitotic cell division. be able to predict the phenotypic classes and their ratios from a monohybrid cross involving dominant and recessive alleles; be able to predict the phenotypic classes and their ratios from a cross involving co-dominant or incompletely dominant alleles;

- **PLANT AND ANIMAL CELL AND TISSUE CULTURE**

Cell culture is an important candidate course for any biotechnology-related training program because it is a technique that must be performed by investigators before they perform many molecular procedures, and vertebrate cell culture is becoming increasingly important for biomanufacturing of therapeutic proteins.

- **MICROBIAL AND AGRICULTURE BIOTECHNOLOGY**

New Applications of Biotech in Agriculture and Horticulture Selective breeding of animals (livestock) and plant crops. Application of New techniques. With DNA fingerprinting, breeders can test parent animals and plants for several beneficial genes and recognize several undesirable genes

- **MOLECULAR AND GENETIC ENGINEERING**

Students learn how engineers apply their understanding of DNA to manipulate specific genes to produce desired traits, and how engineers have used this practice to address current problems facing humanity. They learn what genetic engineering means and examples of its applications, as well as moral and ethical problems related to its implementation.

- **IMMUNOLOGY**

Conceptualize how the innate and adaptive immune responses coordinate to fight invading pathogens.

Determine what immunomodulatory strategies can be used to enhance immune responses or to suppress unwanted immune responses such as might be required in hypersensitivity reactions, transplantations or autoimmune diseases.

- **BIOINFORMATICS**

Provide an introduction to what bioinformatics is and why it is important Provide an overview of the application areas of bioinformatics, with a focus• on the topics that will be taught in the course. Locate and use the main databases at the NCBI and EBI resources • Know the difference between databases, tools, repositories and be able to use each one to extract specific information



**PROGRAM OUTCOMES, PROGRAM SPECIFIC OUTCOMES, COURSE  
OUTCOMES  
BACHELOR OF SCIENCE (FAMILY RESOURCE MANAGEMENT)**

**PROGRAMME OUTCOME:-**

Family and consumer sciences programs allow students to take up a concentration in family resources, while others simply offer coursework in the field. These programs train students in community resource management. Students learn to gauge family and individual well-being according to their financial, psychological, biological, cultural and social health.

**PROGRAMME SPECIFIC OUTCOME:-**

Students study different family functions and management of family resources through courses in:

- Management Skills
- Management of resources
- Interpersonal relationships
- Financial Management
- Entrepreneurship skills

**COURSE OUTCOME:-**

- Identify a variety of resources available to most family
- Systems describe the bi-directional Relationship between resources and family functioning.
- Explain how social institutions affect family resources and resource management
- Analyze proper family resource management services and entrepreneurship.
- Develop family resource management techniques and time management.
  
- Consumer behaviour
- Learning Designing Skills
- Auto Cad
- Global marketplace issues
- Family interaction
- Event Management

**PROGRAM OUTCOMES, PROGRAM SPECIFIC OUTCOMES, COURSE  
OUTCOMES  
BACHELOR OF SCIENCE(HUMAN DEVELOPMENT)**

**PROGRAMME OUTCOME:-**

The bachelor's degree program in human development focuses on effective strategies for working with children, adults and the elderly. Emphasis is placed on the family with some coursework in individual development. Graduates of the program may find work in public and private organizations. Coursework focuses on understanding the complex issues that occur over an individual's lifespan, including cognitive, physical, social and [family development](#).

**PROGRAMME SPECIFIC OUTCOME:-**

- Child evaluation and assessment
- Death and dying
- Parent and child relationships
- Child neglect and abuse
- Working with individuals and families
- Practicum in early childhood and Special children programs

**COURSE OUTCOME:-**

- Understanding of and appreciation for the value of research in the field of Human Growth and Development.
- Demonstrate understanding and application of concepts and theories
- Develop an appreciation for the issues relating to the field of Human Development over the life course, from conception to death. Family finance
- Basic counselling skills
- Administration and organization of vocational cooperative education programs
- Public policy for families and consumers
- Special Education Instructors
- Early childhood Specialists
- Aging health aspects
- Geriatric basic health care providers

**PROGRAM OUTCOMES, PROGRAM SPECIFIC OUTCOMES, COURSE  
OUTCOMES  
BACHELOR OF SCIENCE(PSYCHOLOGY)**

**PROGRAM SPECIFIC OUTCOME:**

**KNOWLEDGE BASE OF PSYCHOLOGY:**

Student can describe key concepts and principles, theoretical perspectives, historical trends in psychology.

**RESEARCH METHODS IN PSYCHOLOGY:**

Students will understand and apply research methods in psychology including research design, analysis of data and interpretation.

**APPLICATION OF PSYCHOLOGY:**

Students will understand and apply psychological principles to personal, social and organizational issues.

**PROFESSIONAL DEVELOPMENT:**

Develop meaningful professional direction for life after graduation and set career goals.

**COMMUNICATION SKILLS:**

Students will be able to communicate effectively in a variety of formats.

**SOCIO-CULTURAL AWARENESS:**

Students will recognize, understand and respect the complexity socio-cultural and international diversity.

**PROGRAMME OUTCOME:**

1. This programme educates students by enhancing their understanding of behavior and its biological, emotional, social and cognitive roots and effects.
2. Help them plan and acquire new knowledge in specific field of psychology and set career goals.

## **COURSE OUTCOME:**

### **BASIC PSYCHOLOGICAL PROCESSES 1AND 2:**

This paper is an introductory course. It gives historical sketch of signs of psychology and a glimpse into methods used in psychology. It provides knowledge about biological foundations of behavior, processes underlie sensation, perception, cognition and memory. The paper has practicals based on the topics in the theory and hence gives a hand on experience about the application of theory.

### **LIFE SPAN DEVELOPMENT:**

This paper gives a comprehensive knowledge about the study of human development. It focuses on the different domains with an emphasis on psychological processes underlie perceptual, cognitive, social and emotional development.

### **SOCIAL PSYCHOLOGY:**

To enable students to understand how human behavior is influenced by social cultural context. It focuses on how individual perceives one self and others in the social context and also how social problems can be analyzed in terms of psychological theories.

### **ORGANIZATIONAL BEHAVIOR:**

To enable students to examine relevant concepts of organizational behavior and help them think critically about OB concepts and applications.

### **COUNSELING:**

This course familiarizes the students with the nature and process of counseling, its major theories and techniques and exposes them the fields of application of counseling.

### **ABNORMAL PSYCHOLOGY:**

Introduces students to the study of human behavioral disorders, examines nature, clinical picture and etiology of psychopathology. Students are also introduced to various therapeutic techniques.

### **HEALTH PSYCHOLOGY:**

It attempts to equip the students with the basic interaction of biological, psychological and social factors related to health and illness.

### **LIFE SKILL PSYCHOLOGY:**

Attempts to equip students with personal, social and interpersonal skills that enable them to cope with the demands of everyday life, build self confidence and help to communicate more effectively.

### **EDUCATIONAL PSYCHOLOGY:**

The course is designed to promote an understanding of the application of psychological principles in the process of education and to critically evaluate various applications of psychology in educational settings.

### **SPORTS PSYCHOLOGY:**

To understand sports psychology as an independent discipline with its multi-dimensional perspectives on the relationship of personality and situational factors on performance and team events and to discuss the role of psychological interventions.

## **PROGRAM OUTCOMES, PROGRAM SPECIFIC OUTCOMES, COURSE OUTCOMES**

### **UNDER GRADUATION IN ENGLISH & OPTIONAL ENGLISH**

#### **PROGRAMME OUTCOME :**

Demonstrate a broad awareness of texts and their historical cultural context in English/ American/ and World Literature while recognizing that Literature has a pivotal role in social change. To inculcate appreciation for interconnectedness and inter disciplinarily of all knowledge.

#### **PROGRAMME SPECIFIC OUTCOME:**

- On successful completion, the students acquire competency in both oral and written communication.
- Learn to apply critical framework to analyse the linguistic, cultural and historical background of texts written in English.
- Recognise and familiarize with the convention of diverse textual genres including fiction, non-fiction, poetry, autobiography, journal, plays, etc.

#### **COURSE OUTCOMES:**

##### **INTRODUCTION TO LITERATURE**

- To acquire a sound comprehension of literary, social, cultural, biographical and historical background of a few literary texts from various parts of the globe and the usage and meaning of literary terms.

##### **INDIAN WRITING IN ENGLISH**

- To learn the literary, societal, cultural, biographical, and historical background of two generations of poets, a dramatist and writer of short stories in English from India.

##### **ELIZABETHAN THEATRE**

- To comprehend the dominant ideas of the Renaissance/Elizabethan era through the study of three masterpieces of Elizabethan Drama.

##### **VICTORIAN FICTION**

- To trace and study a new form of Literature in the Victorian Age and analyse the milieu and philosophy of the times.

##### **TWENTIETH CENTURY BRITISH AND AMERICAN LITERATURES**

- To impart knowledge and comprehend the poetry, the play, a novel reflecting the political cultural scenario of the twentieth century in the west.

### **Literary criticism and Practical Criticism**

- To acquire good knowledge with regard to the analysis of critical framework of theories and methodologies for better interpretation of Literature.
- i. **New Literatures in English** – To enlighten the students on Colonization, Postwar consequences in Literature that emerged from the Commonwealth Countries.
  - ii. **Postcolonial Critical Essays**- Gain multidimensional properties of the Postcolonial world and became acquainted with the critical vocabulary of Postcolonial Studies; key concepts introduced by renowned theorists and writers.

### **LANGUAGE**

#### **COURSES OUTCOMES**

- To trace out the history of English Language and varied components of linguistic structures of the language.
- **Grammar for Communication**
- To gain knowledge on fundamental principles of English grammar including parts of speech, sentence types, sentence analysis, simple/compound/complex sentences, subject-verb agreement, pronoun usage, punctuation, capitalization etc.
- **Indian Writing in English**
- To learn the literary, societal, cultural, biographical and historical background of the greatest English writings penned by Indian Authors.
- **Indian Literature in English Translation**
- To know the basic principles in translation, issues faced by translators and the popularity gained through target language.
- **Project Work** The aim of the Project work is to acquire practical knowledge on the implementation of perceptions studied through the programme.

**PROGRAM OUTCOMES, PROGRAM SPECIFIC OUTCOMES, COURSE  
OUTCOMES  
(LANGUAGES)**

**HINDI**

**PROGRAMMES SPECIFIC OUTCOMES (PSO'S)**

- Developing reading, writing, speaking and listening skills.
- Availing the job opportunities in translation.
- Increasing the critical attitude about literary writing.
- Creating an interest in literature.
- Imbuing the literary research attitude.

**COURSE OUTCOMES**

- Students can work anywhere in India, as they know Hindi – Our National Language. In many other countries also, Hindi is used as an Official Language as well as second Language. So they can easily be employed easily in those countries also.
- As they are Practicing Translation from Hindi to English and English to Hindi and some other Languages as well, they can become Translators in many Central Govt Offices.
- They are learning Poetry and Grammar -so they can become creative writers or poets are authors.
- By Reading and observing Drama's and one act plays they can become good actors. By having good communication skills and command over language one can becomes good speaker.
- Having good command over particular language one can present himself in better way. Learning Hindi in non-hindi region definitely one can achieve anything.

**KANNADA**

**POETRY ,NOVEL AND LETTERWRITING**

- The students will learn the writhing style through poem of ONV Kuruppu, his inclination to nature and romantic approach
- get acquainted with contemporary Novel
- help students to prepare a job application.
- Essay writing helps the students to improve their writing skills and general knowledge regarding current issues.

**Modern Kannada poetry, Kannada short stories and travelogue**

- More sensitized perception of the world and self, enhances language skill.

**Drama thalikattokkuline(Kailasam) Novel- Jugari Cross(Thejasvi) Napakachithra shale(DVG)**



- Sensitization towards imbibing concern for the people around, to develop critical thinking.

### **Medivalkannada literature, Malenadinachithragalu(Kuvempu) and language component**

- Students are made aware of the harsh social realities born out of the hierarchical Indian social system. These creative works are known for their very high aesthetic appeal.

### **Old kannada literature, anthagoly of vaicharikalekhangalu and language component.**

- To help the students to grow in human values and understand the rich tradition of kannada literature.

## **MALAYALAM**

### **PROGRAM SPECIFIC OUTCOME**

The syllabi designed for program is intended to train the imagination and capacity to think critically and creatively about the world and their own country through the study of poetry, prose, dramatic, linguistic, narratology and aesthetics in Malayalam language and literature.

Malayalam language tries to make the student community to study literature as well as culture, poetry, Epistemology, Sanskrit language and literature.

Malayalam language is offered as a second language for the various UG courses such as B.A, B.SC, B.COM, and B.B.A. These course consists of various combinations of different subjects. Learning language develops the skill of reading, writing, expression, appreciation and better way of communication.

### **PROGRAM OUTCOME**

Malayalam language helps to know the modern poetry of Malayalam literature and to realize the social and political reality behind modernity in India, culture of the ethnic groups, and of the place learned the traditions and practices of various folks and to value them.

Students comes to know the history of theatre and various streams of drama and acting. Language study helps to know the present day feminism and environmentalism. Composition writing and its methods are also outcome of Malayalam language study.

### **COURSE OUTCOME**

Study of language helps to grasp information from other languages and understand their culture and values. Being the mother tongue, the learning of Malayalam helps to understand the cultural, Social, historical, religious, Philosophical background of Kerala. The study of language helps to

understand the various dialects within the state. Moreover the students are able to participate in various cultural festivals related to Kerala culture and they are well versed in literary aspects also.

## **FRENCH**

### **PROGRAM SPECIFIC OUTCOME**

- **Speaking:** Students can satisfy requirement of everyday situations.
- **Listening:** Students can understand most speech on a familiar topic.
- **Reading:** Student are able to demonstrate good comprehension of written discourse in areas of special interests. Writing.

### **PROGRAM OUTCOME**

After studying this course, you should be able to

- Understand key issues in the relationship between language and learning.
- Understand the importance of language in learning.
- Understand the different ways in which language features in learning.
- Reflect critically on language and on learning students will demonstrate.
- Speaking, learning, reading and writing skills in the target language consistent with the advanced levels.

#### Course Outcome

The Certificate in French Language and Francophone, Cultures are interdisciplinary programs that provide students with opportunities to acquire advanced language proficiency and both a knowledge of and engagement with the literacy, cultural, socio, historical and political traditions of the French speaking World.

**PROGRAM OUTCOMES, PROGRAM SPECIFIC OUTCOMES, COURSE  
OUTCOMES**

**POST GRADUATION IN PSYCHOLOGY**

There are many areas in psychology one can do masters' degree viz., clinical psychology, counselling psychology, animal behaviour, industrial psychology, forensic psychology, child and adolescent mental health, educational psychology, cognitive psychology, sports psychology, applied psychology, political psychology, special education so on., Teresian college offers two years (four semesters) M.Sc., in psychology (Clinical psychology as specialization). The following are some of the opportunities

1. One can pursue Doctor of philosophy (Ph.D.). There are three major ways to join Ph.D either through National Eligibility Test (NET) conducted by University Grants Commission (UGC), State Eligibility Test (SET) conducted by Karnataka Education Authority (KEA) and through Ph.D entrance exam conducted by the Universities. Apart from the above one can also join as a Junior Research Fellow (JRF) or as a research assistant in a projects funded by organization like UGC, Development of Science and Technology (DST), Indian Council of Social Science Research (ICSSR), Indian Council of Philosophical Research (ICPR).
2. If one is interested in working in clinical set up after masters he/she has to pursue Master of Philosophy (M.Phil.,) in Social and Rehabilitation Psychology recognised by the Rehabilitation Council of India (RCI).As Clinical psychologist they will be able to help the clients to cope with emotional mental and behaviour related issues.
3. One can also work as a research assistant.

4. If candidate is interested in working in a educational set up, he/she can serve as a child psychologist, counsellor, therapist and special educator to help children to cope with mental health and school related issues.
5. Apart from the above mentioned areas, after masters one can also serve in the defence/police department/forensic department

**PROGRAM OUTCOMES, PROGRAM SPECIFIC OUTCOMES, COURSE  
OUTCOMES  
POST GRADUATION IN ENGLISH**

**Semester I**

Sl no.	Title of the Paper	Programme Outcome or Programme specific outcome
1.	Chaucer to Milton (HC)	Students are introduced to different genres and writers. Language, culture and style are brought into focus. Social, political, economic and religious outburst is expressed by alluding to different texts. Historical evidences and their limitations to shape the culture of the then society are also presented.
2.	Elizabethan Era (HC)	Themes, conventions, style(s), theatre, genres, stage setup, contemporary and relevant positions of life presented before, during and after the reign of Queen Elizabeth I is introduced. Tragedy, comedy and chronicles of the then contemporary England, Scotland and Ireland are presented.
3.	17 <sup>th</sup> & 18 <sup>th</sup> Century Literature (HC)	Students are introduced to different literary genres and books penned during the reign of Charles I, Charles II, Augustan Age and Restoration are presented. They are also introduced to the era of Commonwealth, the rise of comedy of manners and satire as tools of both political and social setup.
4.	19 <sup>th</sup> Century Literature (HC)	An awareness is created among students with special regard to the literary genres published after 1798, Neoclassicism, Romantic movement, French Revolution, Rise of feminism, Capitalism,

		Victorian Era and the slave-trade theory of the colonies.
5.	Cross Cultural Women Writers (SC)	This paper concerns women writers who hailed from different cultural and social backgrounds. The genre is a novel or fiction which is written during the colonial era, presenting the plight of women and the trauma they undergo in a society which is doubly colonised.
	Dalit Literature – Part –I (SC)	The dalits/untouchables of colonial and postcolonial India are presented to the capitalistic society which teaches and brings the dichotomy of haves and have not together from the perspective of the dominant ideology and social ladder. The genres are different unique and autobiographical in nature.
	Feminism (SC)	The three waves of feminism with special reference to French Revolution until 1922 are presented through the essays of Anglo-American, French, Black and Marxist feminists through critical essays. This paper sneaks into the power struggle of women against patriarchy in a consumerist world.

## Semester II

Sl no.	Title of the Paper	Programme Outcome or Programme specific outcome
1.	Modern Age - I (HC)	Through this paper we are enlightened about the consequences of power shift both in American and in England which resulted in an intellectual exodus. The rise of different schools of thought as a result of Psychoanalysis by Sigmund Freud and Jacques Lacan opens to multiple interpretations. World wars and the inexpressible consequences are presented from the perspectives of both America and England by the then budding writers.
2.	Literary Criticism - I (HC)	History of Literary criticism and the essential need for it is learnt. The programme teaches the voices of constructive criticism the doyen of 4 <sup>th</sup> Century

		BCE Plato until the Victorian Cultural scientist Mathew Arnold.
3.	Indian Writing in English - I (HC)	This paper helps the students learn 'Unity in Diversity' in India from the Colonial era to the Postcolonial era. Genres are taught to understand the variety and prosperity of vernacular concomitant in India.
4.	Caribbean Fiction and Poetry (SC)	The paper facilitates the students to the diversity of Caribbean Islands, Barbados, the culture of the living and the lived both in the voices of the native and the outsider.
	Dalit Literature – Part – II (Autobiographies) (SC)	This is the sequel of the paper which was introduced in the I semester. Autobiographies of the Postcolonial Dalit from different parts of India are read and interpreted through multiple voices and critical interpretations.

### Semester III

Sl no.	Title of the Paper	Programme Outcome or Programme specific outcome
1.	Modern Age - II (HC)	The paper reflects on the changes World war I and II brought. Students are exposed to the rise of new linguistic theories. The inexplicable plight of the world is seen in different genres through different writers.
2.	Indian Writing in English - II (HC)	A sequel paper with special reference to autobiographies, theories of criticism that have bent towards the left, right and the centre. Novels and writings of prominent Booker prize winners are taught as texts.
3.	New Literatures in English (HC)	New literature is a term used for the literature that sprung from Postcolonial or Third World countries like Africa, Australia, Caribbean islands and for a rare combination Canada also. The writers explicitly present the aftermath of colonialism and the rise of new thinking in the new found world after the coloniser left the colonies.
4.	Women's Writing from the Margins (SC)	This paper brings into vogue the new identities of

		women who are betrayed by the main social cycle and have adopted a new place to air their views. The social and patriarchal restrictions are very dominantly present in these book prescribed for study.
	Nobel Laureates (SC)	The masterpieces of the Nobel laureates from India, Africa, America and Australia are taught to bring into vogue the new reading and new world which is common for many readers.

#### Semester IV

Sl no.	Title of the Paper	Programme Outcome or Programme specific outcome
1.	Literary Criticism - II (HC)	This sequel paper discusses all the contemporary theories based on linguistics brought into vogue from France, Russia, and America specifically. The paper makes the students understand the need for interpretation and convention in a society which is filled with multiple ideologies and interpretations.
2.	American Literature (HC)	Literary genres of all forms originating from Fredrick Douglas to the Nobel prize winner of America for racism and hybridity is introduced. Students enjoy the growth of America and place their most prominent and acceptable interpretations.
3.	European Classics (CSC)	The paper introduces the classic thoughts of Spanish and French literature which are marked for their classics since time immemorial. The aesthetic value of the paper is rated much higher than that of any other paper in the whole semester.
4.	Canada and the World (SC)	Modern, postmodern, transgender, gay, lesbian, queer, transsexual theory based novels are taught with special reference to the literature written by

		migrant and immigrant writers with hyphenated identity in contemporary Canada.
5.	Major project with dissertation (SC)	This research based <b>compulsory</b> project carries similar marks as that of the other papers with special reference to an innovative thought on any genre which the student is interested into. This project is wholly based on the individual interest of the student where the supervisor is supposed to give necessary guidelines for the improvement of the performance of the dissertation and an application of the findings is always appreciated.

## **PROGRAM OUTCOMES, PROGRAM SPECIFIC OUTCOMES, COURSE OUTCOMES**

### **POST GRADUATION IN BIOTECHNOLOGY**

#### **PROGRAMME OUTCOME**

The M.Sc., Biotechnology is Choice Based Credit System (CBCS) as prescribed by University of Mysore, Mysuru. The students of the programme would be benefitted from the core and applied biology domains like Biochemical Techniques, Principles of Biochemistry, Microbiology, Cell Biology, Molecular Biology, Gene Biotechnology, Immunology, Plant Biotechnology, Animal Biotechnology and Bioprocess Technology. The programme is also comprises of softcore subject, students has to opt two papers in each semester, where these subject covers the broad area of life sciences which includes Molecular Genetics, Cancer Biology, Cell signalling technology, Seed health Diagnosis, Food and Environmental Biotechnology, Genomics and Proteomics, Nanotechnology etc. In the final semester 4 months in-house dissertation work, which is strong base for opting future career. This course would make the students understand the basic and applied concepts of life sciences which in turn would give them confidence to work in Life Sciences sector. Since the syllabus is on par with those of reputed Indian and International Universities the students get a highly competitive edge and would be competent do their research and for jobs in industries in the domains of pharmaceuticals, food and dairy, clinical research etc. All the courses in the programme are carefully designed to equip the students for competitive exams like CSIR-UGC-NET, SET etc and also to write research proposals for grants to perceive research.

#### **PROGRAMME OUTCOMES:**

Programme outcome of M.Sc., Biotechnology is to produce competent Life Science students especially biotechnologist's who can employ and implement their knowledge base in



premium processes and applications which will profoundly influence or utilized for existing paradigm of agriculture, industry, healthcare, nanoscience and restoration of degraded environment to provide sustainable competitive edge to present society. Students will exhibit contemporary knowledge in Biotechnology and students will be eligible for doing research in reputed institutes, Universities and jobs in various sectors of pharmaceutical, Food/Dairy industry, agriculture aspects and biotechnological industry.

### **PROGRAMME SPECIFIC OUTCOMES:**

- Students will be able design, conduct experiments, analyse and interpret data for investigating problems in Biotechnology and allied fields.
- Higher studies (M.Phil, Ph.D) can be pursued in order to attain research positions. Various examinations such as CSIR-NET, ARS-NET GATE, ICMR, DBT and many other opens channels for promising career in research.
- Students can become JRF's or project fellow in various projects for their Ph.D., and Technical Assistant in biotechnology, pharmaceutical companies, bio fertilizer industry, s, environmental units, crop production units, food processing industries, national bio-resource development firms.
- Entrepreneurship ventures such as consultancy and training centres can be opened.
- Some of the major pharmaceutical and drug companies' highering biotechnological professionals include Dabur, Ranbaxy, Hindustan Lever and Dr Reddy's Labs, food processing industries, chemical industry and textile industry as well. Beside this industry also employ bio-technological professionals in their marketing divisions to boost up business in sectors where their products would be required.
- Beside industrial sector there are ample opportunities in academics as well.
- Students will be able to understand the potentials, and impact of biotechnological innovations on environment and their implementation for finding sustainable solution to issues pertaining to environment, health sector, agriculture, etc.
- Several career opportunities are available for students with biotechnology background abroad in life science discipline. Our own passed students are working in various industries across the country and some are in teaching field. Many of our students are perusing Ph.D., in our Department and other universities/Institutes. Few of them are Post-Doctoral Fellows in USA, OMAN, Qatar especially in countries like Germany, Australia, Canada, USA and many more where biotechnology is a rapidly developing field.

**PROGRAM OUTCOMES, PROGRAM SPECIFIC OUTCOMES, COURSE  
OUTCOMES  
POST-GRADUATE DEPARTMENT OF COMMERCE**

**PROGRAMME OUTCOME**

The Programme generally focuses on various disciplines like, financial accounting, financial management, business taxation, management accounting, cost accounting, human resource management, business research, business statistics, and many more. On successful completion of the Programme, a student would be able to continue the education by pursuing M.Phil. or Ph.D. Degree Programmes.

**PROGRAMME SPECIFIC OUTCOME**

The Programme aims at providing the contemporary knowledge and skills that are essential for a student aspiring to become either an academician or a practising manager or an entrepreneur. Plethora of opportunities are found in the fields of education, accounting, auditing, taxation, stock broking, banking, corporate finance, marketing, international business, etc., in both government and private sectors.

**COURSE OUTCOME**

**ACCOUNTING THEORY**

The course provides the coverage of the meaning of accounting theory, its types, approaches to formulate accounting theory; the IASB's conceptual framework; definition, recognition, measurement and disclosure of elements of financial statements; accounting regulation and policy in India.

The goal of this course is to provide the knowledge of accounting theory based on conceptual framework of accounting theory and also the critical thinking skills necessary to analyse and interpret accounting related transactions in accordance with accounting theory, and the financial reports generated by the accounting system.

**CORPORATE GOVERNANCE AND BUSINESS ETHICS**

The course provides coverage of concept of corporate governance, ethics, Corporate Social Responsibility and corporate governance in India and reforming of BOD and different Committees.

The aim of this course is to enable the student to understand the concept of corporate governance, help students to know about corporate ethics and cultural influences, impart knowledge of corporate social responsibility and accountability and to provide information about the corporate governance reforming committee reports in India.

## **FINANCIAL DECISIONS**

Financial decision making assumes greater importance in maximising value of an organisation. This course is designed to focus on the analysis of three crucial long term financial decisions like Capital budgeting, Capital Structure and Dividend decisions.

To equip students with necessary skills to evaluate capital projects with a focus on advanced capital budgeting techniques like MIRR (Modified IRR) and selection of projects under conditions of risk and help students analyse the leverage and dividend decisions based on theoretical framework.

## **MARKETING MANAGEMENT**

This course provides the coverage of marketing concepts, marketing in 21st Century, marketing environment, and market oriented strategic planning, E- commerce, online marketing.

On completion of this course the students would be able to understand the changing business environment, identify the indicators of management thoughts and practices and understand fundamental premise underlying market driven strategies.

## **BUSINESS POLICY AND ENVIRONMENT**

This course provides the coverage of business as a social system, internal and external environment, business ethics, social responsibility and business policy.

The objective of this course is to provide the student the knowledge about human resources, their significance and managing them in organisations.

## **STATISTICS FOR BUSINESS DECISIONS**

The course comprises of probability theories, sampling techniques, time series analysis and multivariate analysis.

The aim of this course is to enable a student to have knowledge about application of probability theory and sampling in different areas of commerce, time series analysis and application of multiple correlation and regression analysis.

## **CAPITAL MARKET INSTRUMENTS**

Capital markets in recent times are flooded with new and innovative instruments enhancing vibrancy and volume of capital markets. Every advanced programme in commerce should consist of a course in analysis and evaluation of various instruments traded in capital markets today.

The course intended to equip students an opportunity to comprehend the role of capital markets, evaluate the various capital markets instruments like Stock, bonds, etc. and to know the basics of new instruments like futures and options.

## **HUMAN RESOURCE MANAGEMENT**

This course provides the coverage of concept of HRM, Human resources planning and procurement, human resource development and compensational and rewards system.

The objective of this course is to provide the student the knowledge about human resources, their significance and managing them in organisations.

## **ORGANISATIONAL BEHAVIOUR**

This course provides the coverage of scope of OB, different contributing discipline to OB, foundational of individual behaviour, motivational theories and foundations of group behaviour.

The objective of this course is to provide the student the knowledge about organisations, their constitution and the behaviour of people in organisations.

## **COMPUTER APPLICATIONS IN COMMERCE**

This course is designed to provide knowledge and skills in computer applications in commerce. It focuses on computer applications in Accounting, Finance, Taxation, Statistics and Operations Research.

The objective of the course is to enable to students to understand online trading, online banking, and online submission of income tax and indirect tax returns, Tally and XBRL applications in Accounting and the usage of SPSS applications in statistical analysis.

## **STRATEGIC MANAGEMENT**

This course provides the coverage of concept of strategic management, vision, mission and purpose of business definition, strategic analysis and choice strategic implementation and evaluation.

Apart from general management, strategic management is acquiring importance in the business due to the increased competition. Students of commerce will have to have the knowledge of Strategic management. With this objective of this course is introduced to the students at postgraduate level.

## **STOCK MARKETS**

Stock markets are more popular today as they provide a wonderful opportunity to the general public to invest their savings. This course provides the coverage of fundamentals of stock markets, indices, instruments and trading in stocks and shares including Demat accounts.

The course is designed to meet the expectations of non-commercial graduates and intended to help students to understand the role of stock markets as an avenue for investments, understand the different type's stock market instruments, and provide them necessary knowledge regarding trading in stocks.

## **BUSINESS RESEARCH METHODS**

This course provides the coverage of business research methods, ethical issues in business research methods, research process, data collection methods, designing of questionnaire, various statistical tools like univariate and bivariate analysis and report writing.

The course is envisaged to provide the student the knowledge and skill related to conduct of research related to business. This basic course familiarizes the student with the technicalities of executing a research assignment, in particular the applied research domain.

## **INTERNATIONAL BUSINESS**

This course provides the coverage of international marketing, international trade, international global sourcing, international business environment, multinational corporations and India in the global setting.

This specialization course on International Business is designed to equip the student with policy and practice skills related to international business. Upon completing this course, the student will be able to understand the intricacies of running business across the political territories. She/he would also get an insight in to the policy environment in India regarding the international business.

### **MANAGEMENT OF NON-PROFIT ORGANISATIONS**

This course provides the coverage of non-profit enterprises, accounting and finance in the non-profit organizations, human resource management in non-profit organization and governance and professionalism in NPO.

This is an introductory course designed to give the student basic inputs related to management of non-profit organizations. The place of non-profit sector vis-à-vis State and Business and different functional dimensions of professionally managing the non-profit organizations are introduced to the students.

### **PORTFOLIO MANAGEMENT**

Portfolio analysis and management is a course in financial management. This includes portfolio investment analysis, risk analysis and optimal combinations of securities which lead to create effective return on investment.

Candidates will be able to apply appropriate portfolio decisions and recommend relevant methods of evaluation techniques taking into account other factors affecting investment decisions.

### **BUSINESS TAXATION SPECIALISATION – Paper 1: INDIRECT TAX LAW AND PRACTICE**

This paper is to prepare the students to understand the Indian Tax System and its operation in the global economy. The importance of the indirect taxes in the Indian market oriented economy and its role in achieving the objectives of modern welfare governments.

On completion of this course the students would be able to understand the importance of indirect taxes in the Indian developing economy and its contribution for the economic development, understand the implications of indirect taxes on the taxable capacity of the society at large, understand the role of tax consultant in preparing the tax planning, and understand the concept of indirect tax in the changing global economy.

### **FINANCIAL ACCOUNTING SPECIALISATION – Paper 1: CONTEMPORARY AREAS OF FINANCIAL ACCOUNTING**

This course focuses on contemporary areas of financial accounting which are likely to be of interest to a wide range of stakeholders including investors, employees, society, government agencies and public at large. The course provides the coverage of accounting for the effects of price level changes, interim, segment and tax reporting, hedge accounting, human resource, social and value added accounting.

The aim of this course to provide knowledge and skills to the students on contemporary areas of financial accounting and to bring attitudinal changes to innovations in accounting and to develop professional knowledge and skills in contemporary areas.

### **FINANCIAL MANAGEMENT SPECIALISATION – Paper 1: FUTURES, OPTIONS AND SWAPS**

The course is designed to provide basic knowledge about risk management and the new instruments of capital market i.e., derivatives used for managing risk. It mainly comprises of a

description of the concepts of risk management, forwards/futures, options and swaps along with the trading mechanics and pricing of these instruments.

The course aims to help the students in Basic understanding of risk management, Critical understanding of derivative markets and instruments, understanding the trading mechanics and technology involving derivative contracts and provide the basic valuation models for pricing the derivative assets.

### **HUMAN RESOURCE MANAGEMENT SPECIALISATION – Paper 1: STRATEGIC MANAGEMENT OF HUMAN RESOURCES**

This course Strategic Management of Human Resources covers concept of HRM, objectives, corporate strategy in HRM practice, Industrial relations perspectives, trends in HRM, Grievance procedure and ethical issues in HRM

The course is envisaged to provide the student the knowledge related to management of human resources in business enterprises. This course familiarizes the student with various facets of human resources and their management.

### **MANAGEMENT ACCOUNTING SPECIALISATION – Paper 1: MARGINAL COSTING AND DECISION MAKING**

This course provides the coverage of concept of cost behaviour analysis, break even analysis, multi product break even analysis, graphs, marginal costing and managerial decisions and direct costing.

The course in marginal costing and decision making is aimed at equipping the students with the knowledge and skill relating to marginal costing as a tool for evaluating a wide range of managerial decisions involving make-or-buy, pricing, export offers, temporary short-term of operations, discontinuance of a product line, etc.,

### **SOCIAL ENTREPRENEURSHIP**

This course provides the foundation of social entrepreneurship as a domain knowledge covering the concept and importance of social entrepreneurship, incorporation and source of funding social enterprises.

The course is structured to make the student familiar with the concept of Social Entrepreneurship and the process of establishing and managing a social enterprise. The emphasis of the course is to make the student understand the possibilities of pursuing an entrepreneurial path and demonstrating the potential for social enterprises in emerging economies. The course content is designed so as to facilitate the students from any discipline understand and appreciate the concepts and technical details.

### **INTERNATIONAL ACCOUNTING**

This course is designed to provide a deeper understanding of international accounting issues related to global financial reporting. It focuses on major diversities and challenges of financial reporting in the global arena, harmonization and international financial reporting standards. It also covers accounting for foreign currency transactions and major translation methods. It focuses on main issues in international financial statement analysis.

The aim of this course to provide knowledge and skills to the students on areas of accounting at international level and to bring attitudinal changes to meet challenges and issues of international accounting.

### **OPERATIONS RESEARCH**

The course Operations Research covers linear and integer programming, transportation and assignment problems and their applications in decision making in business.

The objective of the course is to acquaint the students with the use of quantitative models in decision making.

### **FOREIGN EXCHANGE MANAGEMENT**

This course focuses on international financial environment, foreign exchange flows, foreign exchange markets and payments.

This specialization course on International Business is designed to equip the student with policy and practice skills related to international business. Upon completing this course, the student will be to understand the intricacies of running business across the political territories. She/he would also get an insight in to the policy environment in India regarding the international business.

### **INTERNATIONAL FINANCIAL MANAGEMENT**

As there has been a significant increase in multinational corporate activities; multinational finance is an added dimension of every advanced course in the area of finance. Hence this course has been designed to highlight the important finance functions of an MNC operating in India.

To enable students to understand the reasons, problems in internal finance management, foreign currency management, modes of payment, source of finance available etc as far as MNC operations/ firms concerned.

### **PROJECT WORK:**

The project work brings practical knowledge among the students regarding research, through the collection of primary data and secondary data and analysing them for better decision making. It enhances the knowledge of statistical tools and techniques used in conducting the academic research or business research.

### **BUSINESS TAXATION SPECIALISATION – Paper 2: CORPORATE TAX LAW AND PLANNING**

This course is focus on different heads of income, taxable in the hands of companies, computation of gross total income, deduction, exemptions, set off and carry forward of loss. Tax planning for reducing the tax burden, allocation of investments, and maximize the company wealth. As a tax consultant of the corporate tax laws of the company to give advice to the drawing officers regarding TDS, advance payment of tax and remittances of tax, for his employees.

This course is intended to enable the students to understand the incidence based and residential status of the companies, understand the deferent types of companies under corporate income tax act, understand the different sources of income for corporate assesses, analyse the basic principal of tax planning to reduce the tax burden of the company and understand the role of tax consultant relating to TDS, Advance payment of Tax, remittance of corporate income tax, preparation of various Forms.

### **FINANCIAL ACCOUNTING SPECIALISATION – Paper 2: INTERNATIONAL FINANCIAL REPORTING STANDARDS (IFRS)**

The International Financial Reporting Standards (IFRS) issued by International Accounting Standards Board (IASB) are gaining recognition as Global Reporting Standards. This course is designed to provide a deeper understanding of International Financial Reporting Standards issued by IASB.

The aim of this course is to acquire knowledge, comprehension and capability to apply in the real world scenario of the accounting concepts, principles and interpretations discussed in the required pronouncements of International Financial Reporting Standards issued by the IASB.

## **FINANCIAL MANAGEMENT SPECIALISATION – Paper 2: STRATEGIC FINANCIAL DECISIONS**

Financial decisions need to be aligned with overall corporate strategy. This course is introduced to provide an interface of financial policy and strategic management process mainly focusing on financial restructuring, innovative financing strategies and risk management.

The objective of this course is to acquaint students with the advanced concepts of financial management and the application of the same in developing financial strategies for the organisation.

## **HUMAN RESOURCE MANAGEMENT SPECIALISATION – Paper 2: INTERNATIONAL HUMAN RESOURCES MANAGEMENT**

This course covers broader framework of international HRM covering the major functions including HR Planning, performance management and issues relating to expatriation.

The course is envisaged to provide the student the knowledge related to management of human resources in business enterprises. This course familiarizes the student with various facets of human resources and their management.

## **MANAGEMENT ACCOUNTING SPECIALISATION – Paper 2: COST MANAGEMENT**

This course provides the coverage of a broader framework of various tools and strategies used for cost management and control.

The course is aimed at helping the students to understand the scope and need for cost control and management, familiarise themselves with the basic cost control and management tools, understand the importance of statistical tools and operation research in cost control and management.

## **PROGRAM OUTCOMES, PROGRAM SPECIFIC OUTCOMES, COURSE OUTCOMES**

### **BACHELOR OF ARTS (HISTORY)**

#### **PROGRAM OUTCOME**

- Understand the basic theme, concepts, chronology and the scope of Indian History.
- Acquaint with the range of issues related to Indian History that span distinct eras.
- Understand the history of countries other than India with comparative approach.
- Think and argue historically and critically in writing and discussions.
- Critically recognize the social, political, economical and cultural aspects of history.
- Program specific outcome
- Course outcome

#### **HISTORY OF INDIA UPTO 1206AD**

- this paper is designed to help the students to understand political history of Ancient India
- Cultural development of Ancient period.
- To analyze the administration of great rulers.

#### **HISTORY OF INDIA 1206 TO 1761AD**



- To understand the political history of Medieval India.
- To analyze the administrative pattern of the Medieval rulers
- To compare the society and economy of Medieval period with Present day.

### **HISTORY OF MODERN INDIA 1757 TO 1858 AD**

- The political changes of the period and expansion of British Empire in India.
- Structure of the colonial government, economic policies and its impact, administrative changes.
- Social reforms and rebellion.

### **INDIAN NATIONAL MOVEMENT (1885 TO 1947AD)**

- Rise and growth of national consciousness.
- The contributions of freedom fighters and their techniques.
- Achievement of freedom, growth of communalism and partition of country.

### **PRINCIPLES OF TOURISM**

- The role of Literary and epigraphical sources for the understanding of south Indian History.
- The significant contributions of Satavahanas, Chalukyas, Pallavas, Hoysala, Rastrakuta rulers and their administrative reforms.
- The nature of state society and economy and contributions of socio-religious reformers.

### **STATE AND SOCIETY IN SOUTH INDIA(1336 TO 1800 AD)**

- Role of sources for understanding state and society of south India.
- Significant contributions of rulers of vijaynagara and Bahamani Dynasties.
- Nature of society, state, administration and economy.
- Religious and cultural developments.

### **COLONIALISM AND NATIONALISM IN ASIA(1800 TO 1950AD)**

- Development that took place in China.
- Rise of Modern Japan and Japan between two world wars.
- Developments in Turkey and Iran.
- The nature of Arab nationalism and creation of Israel.

### **TOURISM DEVELOPMENT AND ORGANIZATION**

- Developments that took place in Mysore state after restoration.
- Significant contributions of wodeyar rulers and prominent Dewans.
- Administrative reforms of commissioners.

- Political Socio-Cultural Movements in Modern Mysore(Karnataka)State

### **HISTORY OF MODERN EUROPE(1789 TO 1945AD)**

- Nature, scope, course and results of French revolution and post revolution developments.
- Nationalism and Socialism in Europe.
- Unification movements in Italy and Germany and role of Bismarck
- Causes and effects of World wars, Russian Revolutions and functions of UNO

### **INDIA AND CONTEMPORARY WORLD(1950 TO 1995 AD)**

- Establishment of Indian republic, problems and developments of free India.
- India's relation with International organizations and contemporary world.
- Modern developments in Asia and struggle against apartheid and Nationalist struggle in Africe and Latin America.