

Education to Excel  
**SBRR MAHAJANA FIRST GRADE COLLEGE (Autonomous)**  
Jayalakshmiapuram, Mysuru – 570 012 Karnataka, INDIA  
Affiliated to University of Mysore  
Re-accredited by NAAC with ‘A’ Grade, College with Potential for Excellence

## **DEPARTMENT OF COMMERCE**

### **Programme Outcomes:**

- PO1:** Impart in-depth knowledge in the domain of commerce and business through subjects such as Accounting, Taxation, Banking, Insurance, Auditing and Business Management.
- PO2:** Make students prevail in the current corporate scenario through different specializations such as Indirect Taxation, Financial Management, International Business, Organizational Behaviour, Investment Analysis, Portfolio Management, Retail Management and Digital Marketing.
- PO3:** Give practical edge to the curriculum by techniques like case study analysis, group discussions, presentations, workshops, mock stock, mock banking and industrial visit.
- PO4:** Build life skills and employable skills through value based courses and certificate courses
- PO5:** Imparting career enhancement skills by providing training in various competitive exams.

### **SEMESTER I DISCIPLINE SPECIFIC COURSE 1 BUSINESS MANAGEMENT**

### **Course Outcomes:**

- Understand the concepts related to Business.
- Demonstrate the roles, skills and functions of management.
- Analyze effective application of management knowledge to diagnose and solve organizational problems and develop optimal managerial decisions.
- Understand the complexities associated with management of human resources in the organizations and integrate the learning in handling these complexities.
- Learn how to control and coordinate with subordinates.

**SEMESTER I**  
**DISCIPLINE SPECIFIC COURSE 2**  
**FINANCIAL ACCOUNTING-I**

**Course Outcomes:**

- Understand need and significance of Accounting Standards and IFRS
- Understand importance of Conversion of Single Entry to Double Entry System of Book Keeping
- Understand the theoretical framework of accounting along with preparation of the Financial Statements
- Understand the process of determination of Depreciation
- Develop the skill of preparation of Financial Statements through Computerized Accounting

**SEMESTER I**  
**DISCIPLINE SPECIFIC COURSE 3**  
**MANAGEMENT OF BANKING AND INSURANCE SERVICES**

**Course Outcomes:**

- Apply the knowledge of banking and insurance in a cohesive and logical pattern to solve structured and unstructured problems in banking and insurance.
- Understand and employ the interdisciplinary approach of various concepts learned in Banking and Insurance & its association with the various fields of study.

**SEMESTER II**  
**DISCIPLINE SPECIFIC COURSE 4**  
**COST ACCOUNTING**

**Course Outcomes:**

- To understand the basic concept of cost and classification of cost including computation of various components of cost.
- Understand the ascertainment of cost for different sectors by applying the methods of cost accounting
- Understand the techniques of Material Costing, Inventory Control, Labour Costing and classification of overheads
- Understand reasons for the disagreement in cost sheet and financial statements along with its reconciliation.

**SEMESTER II**  
**DISCIPLINE SPECIFIC COURSE 5**  
**FINANCIAL ACCOUNTING II**

**Course Outcomes:**

- Knowledge about Consignment transaction and its accounting treatment
- Understand about accounting treatment of Hire Purchase and Installment System

- To comprehend the preparation of Statement of fire insurance claim with average clause application and also to know the treatment of abnormal items of stock while ascertaining the value of stock on the date of fire.
- Learn the features of branches and its accounting procedure
- Understand the transactions of Non-Profit Organisations and preparation of its Final Accounts.
- Acquaint the students with the knowledge of accounting using Tally software

**SEMESTER II**  
**DISCIPLINE SPECIFIC COURSE 6**  
**PRINCIPLES OF MARKETING**

**Course Outcomes:**

- Demonstrate effective understanding of relevant functional areas of marketing management and its application.
- Demonstrate analytical skills in identification and resolution of problems pertaining to marketing management.
- Familiarize with the basic elements of the marketing mix and to provide a framework to evaluate marketing decisions and initiatives

## **DEPARTMENT OF BUSINESS ADMINISTRATION**

### **Programme Outcomes:**

1. To provide adequate understanding about management education among the students.
2. To impart communication skills among students.
3. To prepare students to explore opportunities in management profession.
4. To develop appropriate skills to pursue entrepreneurial spirit among students.
5. To identify and solve business problems
6. To develop and implement management skills
7. To acquaint with professional quality, Business ethics and social responsibility to meet global standards.

### **I SEM BBA**

#### **FINANCIAL ACCOUNTING-I**

##### **Course outcomes :**

- Develop the skill of recording financial transactions and preparation of reports in accordance with GAAP.
- To familiarize with the preparation of subsidiary book and three column cash book.
- Equip with the knowledge of accounting process and preparation of final accounts of sole trader.
- To understand the computation of depreciation under different methods.
- Understand the concept of Consignment and learn the accounting treatment of the various aspects of consignment.
- Appreciate the need for negotiable instruments and procedure of accounting for bills of exchange.

#### **BUSINESS ENVIRONMENT**

##### **Course Outcomes:**

- Understand the nature of the business environment in the current scenario.
- Familiarize students with components of business environment.
- It will also help students in sharpening analytical skills by highlighting integrated approach to the functioning aspects of the business environment.

- To acquire in depth knowledge about recent business operations which suits the competitive environment.
- Develop a conceptual framework of the business environment and its effect on businesses at home and globally.

## **PRINCIPLES OF MANAGEMENT**

### **Course Outcomes:**

- To understand the concept of Management and its theoretical perspective.
- To understand the evolution of various schools of management thought.
- To understand the concept of planning and decision making process.
- To study the concept of organizational structure and its nature and scope.
- To understand the concept of communication, its types and barriers to communication.
- To understand the concept of Motivation and Leadership.
- To understand the concept of management controlling techniques and its importance

## **II SEM BBA**

### **FINANCIAL ACCOUNTING- II**

#### **Course Outcomes**

- To gain knowledge on preparation of various methods of accounts in Joint venture
- To acquire the skill to prepare different types of branch accounts
- To impart knowledge in preparation of Hire purchase and Installment system
- To transform the accounting procedure and familiarize students about various accounting treatments in partnership firms
- To understand the procedure involved in dissolution of partnership firm

## **BUSINESS DECISION THEORIES**

### **Course Outcomes:**

- To understand the demand and supply analysis in business applications
- To analyse the income determination through classical and Keynesian economics.
- To integrate the concept of price and output decisions of firms under various market structure.
- To analyse personal, socio-cultural, and environmental dimensions that influence consumer decisions making.

- To understand the concepts of cost, nature of production and its relationship to Business operations.

## **MANAGEMENT OF SERVICES**

### **Course Outcomes:**

- To understand the concept of Management of Services: its significance in the context of business growth and GDP contribution
- To understand the concept of marketing mix and marketing strategies
- To understand increasingly competitive business environment of Management of Services
- To understand the multiple dimensions and trends in service industry: Hospitality, Tourism, Insurance and Education services.
- To understand the scope and significance of event management services.

## **DEPARTMENT OF COMPUTER APPLICATION**

### **PROGRAMME OUTCOMES:**

- An ability to apply knowledge of Mathematics, computer Application in practice.
- An ability to enhance not only comprehensive understanding of the theory but its application too in diverse field.
- The program prepares the young professional for a range of Digital Electronics Computer Applications, Computer organization, techniques of Computer Networking, UNIX, Software Engineering, Web development, Database management, Advance Java and Android Programming.
- An ability to design a computing system to meet desired needs within realistic constraints such as safety, security and applicability in multidisciplinary teams with positive attitude.
- An ability to communicate effectively.
- In order to enhance programming skills of the young IT professionals, the program has introduced the concept of project development in each language/technology learnt during semester.

### **I Semester**

#### **Programming Principles and C**

##### **Course Outcomes:**

- To apply programming knowledge/skills to design solutions to real world problems, including specifying, designing, implementing and validating solutions for new problems.

#### **Digital Electronics and Computer Organization**

##### **Course Outcomes:**

- Identify, understand and apply different number systems and codes.
- Understand the digital representation of data in a computer system.
- Understand the general concepts in digital logic design, including logic elements, and their use in combinational and sequential logic circuit design.
- Understand computer arithmetic formulate and solve problems, understand the performance requirements of systems.

#### **Fundamentals of Information Technology**

##### **Course Outcomes:**

- Be able to apply knowledge of computing device to analyze a problem in an application area, and define computing solution

- Be able to design, implement and evaluate a computer-based system to meet user needs.
- Be able to effectively integrate IT based system solutions into the user environment.

## **II Sem**

### **Object Oriented Programming with C++**

#### **Course Outcomes:**

- On successful completion of this course the student should be able to:
- Create C++ programs that solve simple real-world problems.
- Validate user input, perform a test plan to validate a C++ program and document C++ program.

### **Operating Systems**

#### **Course Outcomes:**

- Analyze the structure of Operating Systems and basic architectural components involved in design.
- Analyze the various resource management techniques .
- Interpret the mechanisms adopted for file sharing .
- conceptualize the components involved in designing a contemporary Operating Systems .
- Be familiar with various types of Operating Systems .

### **Discrete Mathematics**

#### **Course Outcomes:**

- Be able to construct simple mathematical proofs and possess the ability to verify them. Have substantial experience to comprehend formal logical arguments.
- Be skillful in expressing mathematical properties formally via the formal language of propositional logic and predicate logic .
- Be able to specify and manipulate basic mathematical objects such as sets, functions, and relations and will also be able to verify simple mathematical properties that these objects possess.
- Acquire ability to describe computer programs (e.g. recursive functions) in a formal mathematical manner.
- Be able to apply basic counting techniques to solve combinatorial problems.
- Gain experience in using various techniques of mathematical induction (weak, strong and structural induction) to prove simple mathematical properties of a variety of discrete structures.



**BA Program**  
**History, Economics and Geography**

**Program Outcomes(HEG):**

1. The learning output of this programme is to ensure the development of an understanding of Basic and Fundamental Concepts of Indian Economy and Micro Economics and their application to business fields.
2. The expected outcome from this course is a measureable increase in the skills and knowledge of the students in the area of applied economics.
3. To put in place structure and contents to make it an integrated and interdisciplinary program with flexibility and choice.
4. Articulate the theories, Philosophies and concepts in the discipline of Geography, including unifying themes of spatial patterns and structures, the interrelationship between people and places and the interactions between nature and society.
5. Identify and assess how Geographic concepts apply in the workplace and in everyday life to solve real-world problems.
6. The programme will also help the learners to seek employment avenues in the development sector and/or other upcoming sectors like banking, insurance and other service sectors.

**Department of History**

**First Semester -History of Ancient India upto 1206 CE**

**Course Outcomes:**

- Students will acquire knowledge regarding geographical background and sources with approaches to History of Ancient India.
- They learn about pre and proto History of our country, emergence and growth of earlier dynasties like Maurya, Kushana, Gupta, Vardhana and Rajaputs as well as their cultural contributions.

**Second Semester - History of Medieval India (1206 to 1761 CE)**

**Course Outcomes:**

- Students will acquire knowledge about Historiography of Medieval India. The history of Delhi Sultanate, Mughals and the Marathas are thoroughly described in this portion.
- Students can gather knowledge regarding Polity, society, religion, economy, trade and commerce and cultural richness.

## **DEPARTMENT OF ECONOMICS**

### **I Sem- Indian Economy**

#### **Course outcomes:**

- Students will learn the key issues of Indian economy with special reference to Agriculture, Industry and Service Sectors in India
- Students will analyse the performance of various sectors in the economic development of India.
- It also allows them to learn the importance of banking and their benefits in the country
- The course will be useful for students aiming towards careers in the Government sector, Policy Analysis, Business, Journalism and International Organizations.

### **II Sem – Fundamentals of Micro Economic Theory**

#### **Course outcomes:**

- Students will acquire Knowledge in applied economic analysis and develop skills required for empirical research in Economics
- They will be provided with a sound theoretical base and introduced with the analytical methods used in micro economics.
- They will familiarize with the basics of consumer behavior, behavior of firms and market Structure and equilibrium.
- The course will be useful for students aiming towards careers in the Government and Administrative sector, Policy Analysis, etc.

## **DEPARTMENT OF GEOGRAPHY**

### **I SEM- Physical Geography**

#### **Course outcomes:**

- Understand the Physical principles and processes governing the circulation and characteristics of the Atmosphere and Climates on Earth.
- Understand the Physical principles and processes governing the circulation and characteristics of water on Earth.
- Understand the principles of Geomorphology and the processes that shape the landscape.
- Understand the distribution and dynamics of organisms and their Environments.
- Understand the directional and location systems employed on the surface of the Earth.

### **II Sem - Human Geography**

#### **Course outcomes:**

- Understand Population dynamics and Migration.
- Understand Political systems, States, Territory and Borders.
- Understand the basic elements of Culture.
- Understand the types and levels of Economic activities.
- Understand Urban structure and development.

**BA Program**  
**History, Economics and Sociology**

**Program Outcomes (HES) :**

1. The learning output of this programme is to ensure the development of an understanding of Basic and Fundamental Concepts of Indian Economy and Micro Economics and their application to business fields.
2. The expected outcome from this course is a measureable increase in the skills and knowledge of the students in the area of applied economics.
3. To put in place structure and contents to make it an integrated and interdisciplinary program with flexibility and choice.
4. It helps students focus on Social Institutions and change in Society, the students can get an impression about the basic composition of Social Institutions.
5. Learn about the changing institutions, the processer, the agents and the interventions that bring about change in the Society.
6. The programme will also help the learners to seek employment avenues in the development sector and/or other upcoming sectors like banking, insurance and other service sectors.

**Department of History**

**First Semester -History of Ancient India upto 1206 CE**

**Course Outcomes:**

- Students will acquire knowledge regarding geographical background and sources with approaches to History of Ancient India.
- They learn about pre and proto History of our country, emergence and growth of earlier dynasties like Maurya, Kushana, Gupta, Vardhana and Rajaputs as well as their cultural contributions.

**Second Semester - History of Medieval India (1206 to 1761 CE)**

**Course Outcomes:**

- Students will acquire knowledge about Historiography of Medieval India. The history of Delhi Sultanate, Mughals and the Marathas are thoroughly described in this portion.
- Students can gather knowledge regarding Polity, society, religion, economy, trade and commerce and cultural richness.

## **DEPARTMENT OF ECONOMICS**

### **I Sem- Indian Economy**

#### **Course outcomes:**

- Students will learn the key issues of Indian economy with special reference to Agriculture, Industry and Service Sectors in India
- Students will analyse the performance of various sectors in the economic development of India.
- It also allows them to learn the importance of banking and their benefits in the country
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### **II Sem – Fundamentals of Micro Economic Theory**

#### **Course outcomes:**

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- They will be provided with a sound theoretical base and introduced with the analytical methods used in micro economics.
- They will familiarize with the basics of consumer behavior, behavior of firms and market Structure and equilibrium.
- The course will be useful for students aiming towards careers in the Government and Administrative sector, Policy Analysis, etc.

**Department of Sociology**  
**I Semester - Invitation to Sociology**

**Course Outcomes:**

- ❖ This paper is expected to clarify and broaden the knowledge of the students about the subject.
- ❖ This will provide a whole some picture about the subject.

**II Semester - Social Institution and Change**

**Course Outcomes:**

- ❖ Develop a broad understanding in Social Institutions. It will present a Comprehensive, integrated and empirically based profile and changing structure of the family.
- ❖ It is hoped that the structure and processes operating in the Society presented in this course will also enable students to gain better understanding of their own situation and region.

## **BA Program**

### **Criminology & Forensic Science, Psychology and Sociology**

#### **Program Outcomes (CPS):**

1. The core content of the Programme believes in nurturing a scientific bent of mind among students.
2. The subject matter of Psychology equips students with theoretical, conceptual and technical attributes; that illuminate the intricate nature of human thought and behavior.
3. Psychology facilitates research attitude among students; through inculcating interpretive, research designing and Psychometric skills.
4. While the course content of Criminology is designed to tap into the inquisitiveness of the mind among the students helping to understand the concepts of Crime and Criminality.
5. Criminology & Forensic Science course acquaints students with speculative, interpretive and deductive skills in the investigative field.
6. Sociology thrives to impart knowledge about emergence of Sociology; basic concepts and changes in the transforming society.
7. The subject matter of Sociology highlights Social Institutions, processes and agents that bring changes in society.
8. Completion of the 3 year degree in CPS Programme will equip students with the required employability skills in each of these specializations and might motivate to embark sustainable, promising Careers in future.

### **DEPARTMENT OF CRIMINOLOGY & FORENSIC SCIENCE**

#### **Course Outcomes- I & II Semesters**

#### **I Sem- Principles of Criminology**

#### **II Sem- Introduction to Forensic Science**

1. The papers are designed in a way to introduce to the students the foundation of Criminology and Forensic Science respectively in I & II Semesters.
2. Through these papers students will understand primary concepts, theories and fundamentals associated with crime, criminal, deviant behaviour, basics of Forensic Science including agencies involved and their functions.
3. The practical component under both the Papers I & II apprehend the significance of basic processes of investigation; observation, fact-finding and application of concepts from multi disciplinary fields.
4. Further, students get to experience the vast scope of Criminology & Forensic Science and its applied nature.
5. Students will be able to contrast the development of the concepts from the time of its known origin which promotes the curiosity towards practicability of the subject.

## **DEPARTMENT OF PSYCHOLOGY**

### **I & II Semesters**

- i) Basic Psychological Processes – I
- ii) Basic Psychological Processes – II

#### **COURSE – Outcomes :**

- 1) The papers Basic Psychological Processes I & II imbibe students with the foundational knowledge in the subject Psychology.
- 2) The papers enable students to get acquainted with the diverse nature of Psychology.
- 3) Provides research orientation; highlighting basic Research Methods in Behavioural Sciences.
- 4) Through these papers students understand primary concepts, theories and fundamentals associated with Psychology.
- 5) Scientific design of these papers permits knowledge of ethical principles in psychology.
- 6) Further, students get to experience the vast scope of Psychology and its applied nature.
- 7) The practical component under both the Papers I & II envisages the significance of Psychometrics i.e. testing and assessment in Psychology.
- 8) Students will be able to contemplate about the origin of Psychology and its current trend.
- 9) Perspective based approach of the papers inculcates openness towards constructive and scientific criticism among students.



## **DEPARTMENT OF SOCIOLOGY**

### **I Semester - Invitation to Sociology**

#### **Course Outcomes:**

- ❖ This paper is expected to clarify and broaden the knowledge of the students about the subject.
- ❖ This will provide a whole some picture about the subject.

### **II Semester - Social Institution and Change**

#### **Course Outcomes:**

- ❖ Develop a broad understanding in Social Institutions. It will present a Comprehensive, integrated and empirically based profile and changing structure of the family.
- ❖ It is hoped that the structure and processes operating in the Society presented in this course will also enable students to gain better understanding of their own situation and region.

## **BA Program**

### **Journalism and Mass Communication, Economics and English**

#### **Program Outcomes:**

1. The students will be equipped with special skills related to Information Communication Technologies (ICTs), including digital and media literacy and competencies.
2. Students would be able to use research- based knowledge and research methods including research design, survey analysis and interpretation of data, and synthesis of the information collected to provide valid and cogent conclusions.
3. The learning output of this programme is to ensure the development of an understanding of Basic and Fundamental Concepts of Indian Economy and Micro Economics and their application to business fields.
4. The expected outcome from this course is a measureable increase in the skills and knowledge of the students in the area of applied economics.
5. The paper introduces to one of the most thriving species in world literature today: Indian Writing in English, Poems spanning two generations of poets in English from India, a social play set in the contemporary India and a collection of short stories from the often neglected but important region Northeast are on platter.
6. Elaborate the literary background of the Indian English Poetry and Narrate recurrent themes in Indian English poetry.

## **DEPARTMENT OF JOURNALISM AND MASS COMMUNICATION**

### **I Semester – Introduction to Communication**

#### **Course Outcomes:**

1. Comprehend the history and development of communication at various levels of the society and its role with respect to modern day technology.
2. To Understand the Concept, nature and scope of communication and learn to effectively use Communication in Journalism.
3. Students would be able to communicate effectively through verbally and non-verbally, as well as in written, write effective report, make effective presentation, and be an effective media communicator learns gestures, postures and semantics and semiotics.
4. Understanding the process of communication, including different forms, levels and barriers.
5. To empower learners by communication, professional and life skills.
6. Learning about the wide array of communication from folk media to Social media.
7. To inculcate concepts of communication, its role and importance in society.

## **II Semester – Applied Journalism**

### **Course Outcomes:**

1. To acquaint students with the glorious journey of Journalism
2. To enhance understanding of the origin of the print, electronic Media.
3. Understand the basics of journalism and recognize the contributions of the renowned journalists to the field of print media.
4. Comprehend the history and development of Journalism at various levels of the society and its role & responsibilities of Journalists.
5. Students would gain advanced knowledge about Origin, Growth and Stalwarts of Kannada Journalism.
6. Students would learn about the modern and emerging trends and developments of Journalism.

## **DEPARTMENT OF ECONOMICS**

### **I Sem- Indian Economy**

#### **Course outcomes:**

- Students will learn the key issues of Indian economy with special reference to Agriculture, Industry and Service Sectors in India
- Students will analyse the performance of various sectors in the economic development of India.
- It also allows them to learn the importance of banking and their benefits in the country
- The course will be useful for students aiming towards careers in the Government sector, Policy Analysis, Business, Journalism and International Organizations.

### **II Sem – Fundamentals of Micro Economic Theory**

#### **Course outcomes:**

- Students will acquire Knowledge in applied economic analysis and develop skills required for empirical research in Economics
- They will be provided with a sound theoretical base and introduced with the analytical methods used in micro economics.
- They will familiarize with the basics of consumer behavior, behavior of firms and market Structure and equilibrium.
- The course will be useful for students aiming towards careers in the Government and Administrative sector, Policy Analysis, etc.

**Department of English (Major)**  
**I Semester - DSC - A: Introduction to Literature**

**Course Outcomes:**

- Write his/her views and opinions in a few words possible
- Produce coherent and unified paragraphs with adequate support and detail;
- Use language as an effective tool of communication.

**II Semester - DSC - B: Indian Writing in English**

**Course outcomes:**

- To know the beauty of the coherence of Language and Literature
- To demonstrate the awareness of evolution theory of language by varied culture
- To explore literary elements

## **BA Program**

### **History, Geography and Kannada**

#### **Program Outcomes (HGK):**

1. To put in place structure and contents to make it an integrated and interdisciplinary program with flexibility and choice.
2. Articulate the theories, Philosophies and concepts in the discipline of Geography, including unifying themes of spatial patterns and structures, the interrelationship between people and places and the interactions between nature and society.
3. Identify and assess how Geographic concepts apply in the workplace and in everyday life to solve real-world problems.
4. Study of Kannada Literature – old, medieval and modern periods will enable the student to lead a life of morals/principles
5. To teach the formation of words through grammar and introduce various grammar concepts in Kannada language

#### **Department of History**

##### **First Semester -History of Ancient India upto 1206 CE**

#### **Course Outcomes:**

- Students will acquire knowledge regarding geographical background and sources with approaches to History of Ancient India.
- They learn about pre and proto History of our country, emergence and growth of earlier dynasties like Maurya, Kushana, Gupta, Vardhana and Rajaputs as well as their cultural contributions.

##### **Second Semester - History of Medieval India (1206 to 1761 CE)**

#### **Course Outcomes:**

- Students will acquire knowledge about Historiography of Medieval India. The history of Delhi Sultanate, Mughals and the Marathas are thoroughly described in this portion.

Students can gather knowledge regarding Polity, society, religion, economy, trade and commerce and cultural richness.

## **DEPARTMENT OF GEOGRAPHY**

### **I SEM- Physical Geography**

#### **Course outcomes:**

- Understand the Physical principles and processes governing the circulation and characteristics of the Atmosphere and Climates on Earth.
- Understand the Physical principles and processes governing the circulation and characteristics of water on Earth.
- Understand the principles of Geomorphology and the processes that shape the landscape.
- Understand the distribution and dynamics of organisms and their Environments.
- Understand the directional and location systems employed on the surface of the Earth.

### **II Sem - Human Geography**

#### **Course outcomes:**

- Understand Population dynamics and Migration.
- Understand Political systems, States, Territory and Borders.
- Understand the basic elements of Culture.
- Understand the types and levels of Economic activities.
- Understand Urban structure and development.

## **Department of Kannada (Major)**

First Semester - History of Kannada Literature and Text Based Activity

### **Course outcomes:**

- Learn about Life values
- Teach about a life free from slavery
- To learn to respect women
- Importance of culture
- Create a mind set to improve the life of the weaker section of the society

### **II Sem - Grammar concepts in old Kannada literature and Text-based activities**

#### **Course outcomes:**

- Ability to write without grammar mistakes
- Importance of our heritage through ancient Kannada Grammar works
- Learn chaste spoken language
- Use of pure Kannada language

## **B.Sc. Program**

### **Physics, Mathematics, Computer Science**

#### **Program Outcomes (PMCs):**

1. Perform experiments and interpret the results of observation, including making an assessment of experimental uncertainties for providing better solutions and new ideas for the sustainable development
2. Be able to design, implement, and evaluate a computational system to meet desired needs within realistic constraints.
3. Provide an intellectually stimulating environment to develop skills and enthusiasms among the students to the best of their potential.
4. Recognize and analyze the connections between theory and applications.
5. Students will be aware of and able to develop solution oriented approach towards various Social and Environmental issues.
6. Scientific temper will be developed in Students.

### **I Sem - Mechanics, Properties of Matter and Electrostatics**

#### **COURSE OUTCOMES:**

- It bridges the gap between the plus two and post graduate levels of Physics by providing a more complete and logical framework in almost all areas of basic Physics.
- The students will attain a common level in Mechanics, Properties of Matter and Electrostatics, other relevant subjects to complement the core for their future courses and



- Develop their experimental and data analysis skills through experiments at laboratories.

## **II Sem- Heat and Thermodynamics and Sound**

### **COURSE OUTCOMES:**

- Students will attain a common level in Heat and Thermodynamics and Sound, other relevant subjects to complement the core for their future courses and
- Develop their experimental and data analysis skills through experiments at laboratories.

## DEPARTMENT OF MATHEMATICS

### I Semester : Algebra - I and Calculus - I

#### Course Outcomes:

1. To find basic matrix algebra and method to find Rank, Inverse and Diagonalization of the matrix. Learn to solve systems of linear equations and application problems requiring them. Also to learn to find and use eigenvalues and eigenvectors of a matrix. Verification of Cayley - Hamilton theorem.
2. Basic theorems on polynomials. To learn basic properties and relation between the roots and coefficient. Reciprocal equations, Descarte's rule of signs. Find out multiple roots by synthetic division method. Solving cubic equations. Solving biquadratic equations by Descarte's method.
3. After completing the course, students are expected to be able to use Leibnitz's rule to evaluate derivatives of higher order, able to study the geometry of various types of functions. Leibnit'z rule and its applications to problems of the type  $e^{ax}$  ,  $(ax+b)^n$  ,  $\log(ax+b)$ ,  $\sin(ax+b)$ ,  $\cos(ax+b)$ ,  $e^{ax} \sin(ax+b)$ ,
4.  $e^{ax} \cos(ax+b)$ , Maxima and Minima, concavity , concavity and point of inflections. Reduction formula of the type  $\int \sin^n x$ ,  $\int \cos^n x$ ,  $\int \sin^n x \cos^m x$  ,  $\int \tan^n x$ ,  $\int \cot^n x$ ,  $\int \sec^n x$ ,  $\int \operatorname{cosec}^n x$ ,  $\int x^n \sin x$ , ,  $\int x^n \cos x$ , and  $\int e^{ax} x^n$  with definite limits.
5. Use the fact that the derivative is the slope of the tangent line to the curve at a given point and to determine the derivatives of simple linear functions. To find derivative of arc of length in Cartesian, parametric and polar form. To find out the center and radius of curvature, circle of curvature and evolutes.

### II Semester : Calculus - II and Theory of Numbers

#### Course Outcomes

1. The student is expected to learn about the basic principles of multi-variable calculus with proofs. To have full knowledge of calculus involving the fundamental tools such as continuity and differentiability.
2. Mean value theorems such as Rolle's theorem, Lagrange's mean value theorem, Cauchy's mean value theorem. Taylor's series and Maclaurin's series. Intermediate forms using L' Hospital's Rule.
3. Limit and Continuity of functions of several variables, Partial derivatives, Partial derivatives of higher orders, Homogeneous functions, Explicit and Implicit

functions Change of variables, Mean value theorem, Taylors theorem for functions of two variables (statements & applications), Jacobians & its applications.

Define and interpret the concepts of divisibility, congruence, greatest common divisor, prime, and prime-factorization. Demonstrate knowledge and understanding of topics including, but not limited to divisibility, prime numbers, congruences. Students can find integer solutions to the system of equations which arises in real life problems.

## **DEPARTMENT OF COMPUTER SCIENCE**

### **I Sem - C Programming**

#### **Course Outcomes**

- develop good problem solving skills and develop logics
- develop small-to-mid-size programs on their own.
- compare and understand the limitations of the various programming constructs and choose the right one for computation

### **II Sem Data Structures and ADA**

#### **Course Outcomes**

- understand the various data representations
- design and develop solutions to various computing problems by choosing appropriate data structures
- Analyze the complexity of different Algorithms.

**B.Sc. Program**  
**Biotechnology, Biochemistry and Microbiology**

**Program Outcomes (BtBM):**

- 1) Student will gain fundamental knowledge in Biotechnology, Biochemistry and Microbiology.
- 2) Students will understand the different reactions involved in the major catabolic and anabolic pathways of Biomolecules and its significance.
- 3) Students will learn the fundamental properties of elements and co-ordination compounds and its role in biological system.
- 4) Students will get acquainted with the basic principle of microscopy.
- 5) Students will gain knowledge in Molecular Biology and Recombinant DNA Technology
- 6) The course will strongly encourage the students to carryout research program in various research institutions.

**Department of Biotechnology**

**I Sem - Biomolecules and Microbiology**

**Course Outcomes :**

- Gain fundamental knowledge in biochemistry and microbiology.
- Demonstrate practical skills in aseptic techniques common to microbiology,
- Gain knowledge about the different types of microorganisms and their significance.
- Study about the growth of different types of microorganisms based on various environmental factors

**II Sem : Enzymology and cellular metabolism**

**Course Outcomes :**

- Explain/Describe the synthesis and degradation of proteins, lipids, nucleic acids, and carbohydrates and their role in metabolic pathways.
- Differentiate between dark and light reactions occurring during photosynthesis.
- Gain clear understanding in isolation, purification and characterization of enzymes
- Understand the enzyme kinetics and application of enzymes in various fields.

**DEPARTMENT OF BIOCHEMISTRY**  
**I SEMESTER - Chemistry of Biomolecules**

**Course outcomes:**

- The concepts of mole, mole fraction, equivalent weight, normality etc. and apply them in preparations of primary, secondary standards and also solutions of desired strength.
- The fundamental laws relating to photochemistry and applications of spectroscopy in characterization of biomolecules.
- The role of radioactivity and radioisotopes in biology and its determination.
- Basics of organic compounds, IUPAC nomenclature, structure and different types of chemical bonding.

**II SEMESTER - Bio-Organic chemistry and Biomolecules-I**

**Course outcomes:**

- Understand the reaction mechanism with relevance to biology.
- Learn to apply the concept of stereochemistry in determining the conformation of biomolecules.
- Have an over view over the structure, chemical properties and biological importance of heterocyclic compounds, amines and hydroxy acids.
- Understand the role of carbohydrate in biological system and its relationship between cellular activities.

## **DEPARTMENT OF MICROBIOLOGY**

### **I Semester - Introduction to Microbiology and Microbial Diversity**

#### **Course outcomes:**

- Students will learn basics of different fields in microbiology
- Gain knowledge about the different types of microorganisms and their significance
- Handling of microscopes and staining methods
- Students will study different techniques used in microbiology
- Also learn about viruses and eukaryotic cell structure in detail.

### **II Semester - Microbial Physiology And Molecular Biology**

#### **Course Outcomes:**

- Students will also study the growth and control of microbes as well as different bacteriological techniques involved in microbiology.
- Students will study about the growth of different types of microorganisms based on various environmental factors.
- Students will gain knowledge about the nutrient uptake and transport and the different metabolic pathways involved in their growth.
- Students will study the detailed structure of nucleic acids and the molecular processes such as replication, transcription and translation.

## **DEPARTMENT OF LAW AND CONSTITUTION OF INDIA**

### **AECC- Constitution of India**

#### **Course Outcomes :**

- Able to understand historical background of the constitutional making and its importance for building a democratic India, the structure of Indian government, the structure of state government, the local administration.
- Able to apply the knowledge on Directive Principle of State Policy, the knowledge in strengthening of the constitutional institutions like Election Commission and UPSC for sustaining democracy.

Able to evaluate preamble Fundamental Right and Duties Zilla Panchayat, block level organization various commissions of SC/ST/OBC and Women.



## **DEPARTMENT OF ENVIRONMENTAL SCIENCE**

### **AECC – Environmental Science**

#### **Course Outcomes:**

1. The Environmental study sensitizes the students about environmental protection, conservation and equitable use of resources for sustainable livelihood
2. The study makes the individual to know about their surrounding, analyze the natural and anthropogenic environments, how we should interact with it.
3. The study makes the individual to realize the issues created by his interaction with the environment and conserve them.
4. The Environmental studies prepare the students for careers as leaders in understanding and addressing the complex environmental issues and solutions.

**DEPARTMENT OF ENGLISH**  
**SUBJECT- Language English**

**I Semester - (AECC) Eng. I: Poetry, Prose and Language Component – I**

**Program Outcomes:**

- The literary texts in the paper provide powerful contexts to understand human situations in our world and show how they are expressed in English Language.
- To enable the students to understand the thought and imaginations contained in the poem.
- Confidently read, understand and appreciate a range of literary texts.
- The literary pieces in the II semester deal with life in its varied hues most tellingly.
- To appreciate the rime and rhythm and style of the poem.
- To train the emotions, feelings and imagination of the students.
- Think rigorously about selected contemporary texts and the contexts of their production.

**Course Outcomes:**

- Understand the common techniques and traditional forms of poetry.
- Analyse a variety of short fiction.
- Discuss story context and structure in depth.

**II Semester - (AECC) Eng. II: Poetry, Prose and Language Component – II**

**Course Outcomes:**

- Understand the basic terminology and practical elements of poetry.
- Consider, culture, author, bibliography and historic context of each story.
- Write a paragraph with a topic sentence, support, and concluding sentence.
- Use a variety of accurate sentence structures.

**DEPARTMENT OF KANNADA**  
**First Semester - B.A.**

**AECC-1**

**Paper 1 – Modern Kannada: Poetry and Short Story**

**Course outcomes:**

- Learn about love for nature, a life of hope and Mother's love
- Learn about living in harmony with family and in a Society
- Develop a perspective to create a secular mind
- Overcome a superstitious mind and develop a rational mind

**Second Semester - B.A.**

**Paper 2 – Drama: Tughlaq and Novel: Samskara**

**AECC-2**

- To provide an idea of Democracy beyond the politics of religion
- To develop the quality of nobility and generosity among students
- To build a mind set with an urge to create a new caste Society
- To teach the creation of a pure mind

**First Semester - B.Sc. / BCA**

**AECC-1**

**Paper 1 – Modern Kannada: Poetry and Short Story**

**Program Outcomes:**

- To provide a realistic picture of rural life
- To uphold literature and social justice
- To create an awareness of rationale thinking that could be the guiding path for the young generation
- Enlighten their thoughts about Karnataka State and Kannada Language in an age of competition

**Course Outcomes:**

- Learn a life of equality
- Importance of mother tongue

- Develop self – confidence to strengthen one’s life
- Firmness in achieving one’s goal
- Develop a personality beyond religious and casteist feelings

## **Second Semester - B.Sc / BCA**

### **AECC-2**

#### **Paper 2 – Drama: Sankranthi and Novel: Kadu**

##### **Course Outcomes:**

- Follow / Practice ethics and Moral Principles
- Develop a rational mind
- Awareness to wipe out gender inequality
- Develop a personality beyond casteist feelings
- Learn about the importance of the propagation of Sharana Philosophy

## **First Semester - B.Com / BBA**

### **AECC-1**

#### **Paper 1 – Drama: Modern Kannada : Poetry and Short Story**

##### **Program Outcomes:**

- To create a personality aloof from old fashioned ideology and superstitious beliefs
- Love for nature and to familiarise the setting of the village life
- Develop leadership qualities
- Develop a broad perspective and a nature of mutual cooperation

##### **Course Outcomes:**

- Learn the importance of mother tongue and also an awareness of the need to learn other languages
- Learn to associate or be in the company of nature on reading the depiction of nature in the selected compositions
- Love for fellow human beings to create an equitable society
- Develop self esteem and importance of relationships

## **Second Semester - B.Com / BBA**

### **AECC-2**

#### **Paper 2 – Drama: Mahmud Gawan and Noval Chomanadudi**

- Be able to stay away from a violent mind-set
- Humanistic perspective
- Depiction of poverty, the pain and humiliation associated with it and reasons for poverty
- Enhance learning ability

**DEPARTMENT OF HINDI**  
**AECC-1- Ability Enhancement Compulsory Course**  
**I SEMESTER BA**  
**Title of the Paper – Hindi Gadya aur Vyakaran**

**Course Outcomes :**

Hindi was adopted as an official Language in Indian Constitution with Devanagari Script.

- Students are going to learn as a Language and they will know about Hindi Literature and writers of Hindi.
- Students will learn better Communication Skills through different types of Hindi Literature and Usage of Language.
- In the era of Globalization Students will get good opportunity for Livelihood through better Hindi Communicative Skills.
- By reading Hindi Literature Students will adopt moral values, life skills and ethics.

**II SEMESTER BA**  
**AECC-1- Ability Enhancement Compulsory Course (MIL) (Language)**  
**Title of the Paper – Hindi Kahani aur Vyakaran**

**Course Outcomes:**

- Students will learn different types of Short Stories with different Concepts.
- Students will get different learning Experience like- grasping sense of the sentence, Analytical Ability, Different types of Character in Society, Idioms and Phrases etc.
- Students will Improve writing Skills through writing Summaries of the each lessons.
- Students will learn better Communication Skills like letter writing, oral communications through Hindi Literature by Using the Language.
- Learners will understand the concept and lead the better life in future.

**I SEMESTER BCom, BBA, BCA**  
**AECC-1- Ability Enhancement Compulsory Course (MIL) (Language)**  
**Title of the Paper – Hindi Kahani aur Vyakaran**

**Course Outcomes:**

- Hindi was adopted as an official Language in Indian Constitution with Devanagari Script.
- Students are going to learn as a Language and they will know about Hindi Literature and writers of Hindi.
- Students will learn better Communication Skills like letter writing, oral communications through Hindi Literature by Using the Language.
- In the era of Globalization Students will get good opportunity for Livelihood through better Hindi Communicative Skills.
- By reading Hindi Literature Students will adopt moral values, life skills and ethics.

**II SEMESTER B.Com, BBA, BCA**  
**AECC-1- Ability Enhancement Compulsory Course (MIL) (Language)**  
**Title of the Paper – Hindi Gadya aur Vyakaran**

**Course Outcomes :**

- Students are going to learn as a Language and they will know about Hindi Literature and writers of Hindi.
- Students will learn better Communication Skills through different types of Hindi Literature and Usage of Language.
- In the era of Globalization Students will get good opportunity for Livelihood through better Hindi Communicative Skills.
- By reading Hindi Literature Students will adopt moral values, life skills and ethics.

**I SEMESTER BSc**  
**AECC-1- Ability Enhancement Compulsory Course (MIL) (Language)**  
**Title of the Paper – Hindi Gadya aur Vyakaran**

**Course Outcomes:**

- Hindi was adopted as an official Language in Indian Constitution with Devanagari Script.
- Students are going to learn as a Language and they will know about Hindi Literature and writers of Hindi.
- Students will learn better Communication Skills through different types of Hindi Literature and Usage of Language.
- In the era of Globalization Students will get good opportunity for Livelihood through better Hindi Communicative Skills.
- By reading Hindi Literature Students will adopt moral values, life skills and ethics.

**II SEMESTER BSc**  
**AECC-1- Ability Enhancement Compulsory Course (MIL) (Language)**  
**Title of the Paper – Hindi Kahani aur Vyakaran**

**Course Outcomes:**

- Students will learn different types of Short Stories with different Concepts.
- Students will get different learning Experience like- grasping sense of the sentence, Analytical Ability, Different types of Character in Society, Idioms and Phrases etc.
- Students will Improve writing Skills through writing Summaries of the each lessons.
- Students will learn better Communication Skills like letter writing, oral communications through Hindi Literature by Using the Language.
- Learners will understand the concept and lead the better life in future.

## **DEPARTMENT OF SANSKRIT**

### **AECC-1- I SEMESTER BA/BSC**

#### **Title of the Paper – Sanskrit Gadya and Vyakaran**

##### **Course Outcomes:**

- Enables students to familiarize themselves with some leading classical prose works and the individual literary styles of their authors.
- The learner will be exposed to the socio-cultural conditions of the Indian society as reflected in the prescribed texts.
- Students will acquire skills in advanced Sanskrit communication.

### **II SEMESTER BA/BSC**

#### **AECC-1- Ability Enhancement Compulsory Course**

##### **Title of the Paper – Sanskrit padya and Vyakaran**

##### **Course Outcomes:**

- Students will develop a fair idea of the works of great Sanskrit poets.
- Will be able to appreciate the styles and thoughts of individual poets focusing on the poetical, artistic, cultural and historical aspects of their works.
- Enhance competence in chaste classical Sanskrit and give them skills in translation and interpretation of poetic works.
- Students will be able to write Devnagari Scripts

### **I SEMESTER BCOM,BBA,BCA**

#### **AECC-1- Sanskrit Gadya and Vyakaran**

##### **Course Outcomes :**

- The course(subject) will enable students to familiarize themselves with some leading classical prose works and the individual literary styles of their authors. After the completion of this course the learner will be exposed to the socio-cultural conditions of the Indian society as reflected in the prescribed texts.

### **II SEMESTER BCOM, BBA, BCA**

#### **AECC-1- Ability Enhancement Compulsory Course**

##### **Title of the Paper – Sanskrit Gadya and Vyakaran**

##### **Course Outcomes:**

- Students will develop a fair idea of the works of great Sanskrit poets.
- Will be able to appreciate the styles and thoughts of individual poets focusing on the poetical, artistic, cultural and historical aspects of their works.
- Enhance competence in chaste classical Sanskrit and give them skills in translation and interpretation of poetic works.
- Students will be able to write Devnagari Scripts



## Department of Tourism and Hospitality Management

### Programme Outcomes:

1. To Understand multi-form character of travel and tourism business.
2. Explain the diverse nature of tourism, including culture and place, global/local perspectives, and experience design and provision.
3. Apply relevant technology for the production and management of tourism experiences.
4. Plan, lead, organize and control resources for effective and efficient tourism operations.
5. Create, apply, and evaluate marketing strategies for tourism destinations and organizations.
6. Practice empathy and respect for diversity and multicultural perspectives.
7. Apply principles of sustainability to the practice of tourism in the local and global context
8. Propose and conduct a research project to inform tourism practice.
9. Assess, evaluate, and employ appropriate communication tools for discussions within and between teams and members, various audiences, decision-making teams, and corporate communication tasks.
10. Apply problem solving and critical analysis within diverse contexts.
11. Work collaboratively in groups, both as a leader and a team member, in diverse environments, learning from and contributing to the learning of others.

### Course Outcomes:

Semester	Subject	Outcomes
<b>I</b>	<b>Subject Name:</b> Tourism Principles and Practices	1. To Understand the concept of tourism, its, growth, development, and motivations for travel. 2., To study the role of tourism as an economic intervention, global nature of tourism, tourism products and emerging trends in tourism industry. 3. To understand the managerial skill for tourism business environment.
	<b>Subject Name:</b> Air Travel Management	1. To learn about the history of airline industry, the structure and dynamics of airline industry. 2. To learn the role and function of different organizations in Civil Aviation. 3. To understand about Aviation Safety, Baggage Rules, Piece and Weight Concept, special facilities available.
	<b>Subject Name:</b> Marketing Management for Tourism	1. To Understand the theoretical and applied understanding of the tourism marketing. 2. To learn about importance of tourist orientation and ways to reach tourists through proper marketing strategies. 3. To emphasis on the tourism marketing mix and integrated strategies as applied in the contemporary times

		is the hallmark of the course.
	<b>Subject Name:</b> Communication Skills for Tourism	<ol style="list-style-type: none"> <li>1. To familiarize with different methods of communication and the barriers of communication.</li> <li>2. To analyze the listening comprehension and identify the interpersonal problems in listening and feedback</li> <li>3. To learn about speaking skill through group Discussion and evaluation, Mock interview and also earn about telephoning skills/ telephone etiquette.</li> </ol>
	<b>Subject Name:</b> Hospitality and Hotel Operations	<ol style="list-style-type: none"> <li>1. To Understand the impart knowledge of hospitality /hotel operation and management</li> <li>2. To understand the front office, food and beverage and housekeeping aspects both theoretically and practically</li> <li>3. To impart a comprehensive idea about the operations of hotel, Resort and other catering out lets of a hotel.</li> </ol>
	<b>Subject Name:</b> Tourism Geography	<ol style="list-style-type: none"> <li>1. To Explore the basic components of geography in relation with tourism.</li> <li>2. To gain the Knowledge of geography shall also give an extra edge to the students in designing the itineraries for the Travelers.</li> <li>3. To understand the Climate and tourism and geographical resources for tourism.</li> </ol>
	<b>Subject Name:</b> Study tour, project report and Viva voce	<p>The purpose is:</p> <ol style="list-style-type: none"> <li>1. To experience travel and to understand the linkages between tourism and other service sectors.</li> <li>2. To familiarize some of the important tourist destinations in India or abroad.</li> <li>3. To learn how to organize and manage tours.</li> </ol>
<b>II</b>	<b>Subject Name:</b> Organizational Behaviour	<ol style="list-style-type: none"> <li>1. To understand the role of organizational behavior and its challenges &amp; opportunities of organizational behavior in tourism industry.</li> <li>2. To learn about personality, Attitudes &amp; Values, Psycho analytical social theory, Trait theories of personality and also learn about factors influencing attitude nature and dimension.</li> <li>3. To study about the organizational Development and Chang and the benefit of organizational development.</li> </ol>
	<b>Subject Name:</b> Tour Operations Management	<ol style="list-style-type: none"> <li>1. To orient the students regarding the prevalent procedures and processing style in respect of Tour Operation business and its management.</li> <li>2. It gives details regarding basic procedures adopted by Tour Operation in the specific fields and focuses on the prescribed requirements by the administrative machinery looking after specific aspects of tourism and allied activities.</li> </ol>

		3. To Understand the Tour Designing and Costing Techniques and factor affecting on it
<b>Subject Name:</b> Travel Agency Management		1. To orient the students regarding the prevalent procedures and processing style in respect of Travel agency business and its management 2.To understand the Travel formalities and documentation stages for International Travel 3. To learn the Start up and set up the Travel agency and its Regonisation process from various authorities.
<b>Subject Name:</b> Study tour, project report and Viva voce		The purpose is: 1. To experience travel and to understand the linkages between tourism and other service sectors. 2. To familiarize some of the important tourist destinations in India or abroad. 3. To learn how to organize and manage tours.
<b>Subject Name:</b> Airline Ticketing		1. The course aims to provide a systematic & extensive knowledge of aviation industry with basic knowledge of airlines ticketing and cargo handling. 2. It includes an introduction of air transport industry. It explains various codes, time calculation, types of journey and fare calculation. 3.To understand the role of CRS and GDS system in Airline Ticketing.
<b>Subject Name:</b> Destination Planning and Development		1. To help students to understand about tourism planning process, strategy, and policies 2.To understand the importance of tourism planning and marking at national level and understand problems relating to tourism and its development in India. 3.To know the Institutional Support and role PPP in Destination Image creation and development.
<b>Subject Name:</b> Travel and Tourism Management ( <b>open elective</b> )		1. To gain the Knowledge about Concept and component of the travel and tourism industry. 2. To Understand the Tourism impacts on Local and national economy. 3. To learn about the various travel formalities and documentation Process.

## PG Departments

### Department of Commerce - M.Com

#### Programme Outcomes:

**PO1:** Enhance the in depth knowledge on various fields of business and commerce such as Accounting, International Accounting, Financial derivatives, Business Environment, international business, Research Methodology and Tax planning etc.,

**PO2:** Provide practical knowledge to deal with the day to day activities of the business by using the techniques like industrial visit, internship, case study analysis, field visit, role play etc.,

**PO3:** Inculcate the knowledge of Application of information technology in the field of Commerce.

**PO4:** Educate the students on business ethics, values and responsibility of business towards society to contribute to the society at large.

**PO5:** Encourage the students to develop interest in the area of Research.

**PO6:** Build the strong communication skills and interpersonal skills among the students.

**PO7:** Build team spirit among the students to face the real life situations in their career.

**PO8:** Imparting career enhancement skills by providing training in various competitive exams.

#### Course Outcomes:

Semester	Course	Outcomes
I	<b>Accounting Theory</b>	<b>CO1:</b> Apply knowledge of accounting techniques, concepts, principles and theories to solve financial reporting problems <b>CO2:</b> Apply a structured decision model to exercise judgment in the application of accounting standards. <b>CO3:</b> Work in teams to design and undertake a research project. <b>CO4:</b> Apply the code of ethics for professional accountants to make sound decisions.
	<b>Corporate Governance And Business Ethics</b>	<b>CO1:</b> Know the conceptual framework of corporate Governance around the World and in India, <b>CO2:</b> Enhancing the knowledge on ethics in business and the code of conduct practiced in various corporations. <b>CO3:</b> Learn the efforts of governments and various committees in enacting good governance systems in Indian Corporations, <b>CO4:</b> Realize the roles and responsibilities of CEO, CFO,

		<p>Company Secretary and other key personnel</p> <p><b>CO5:</b> Identify and understand the various Corporate Social Responsibility activities taken up by the Indian corporate sector.</p>
	<b>Financial Management</b>	<p><b>CO1:</b> Know the relativity of capital investment decisions and financial policies to business valuations.</p> <p><b>CO2:</b> Application of different methods of cost of capital to ascertain overall cost of capital of the firm,</p> <p><b>CO3:</b> Application of financial leverage to form long-term financial policies for business.</p> <p><b>CO4:</b> Ascertain common investment criteria and project cash flows associated with corporate project evaluation.</p>
	<b>Marketing Management</b>	<p><b>CO1.</b> Learn the importance of how demographic, cultural and institutional factors shape the global marketing environment</p> <p><b>CO2.</b> Depict various methods through which a firm can promote its products in markets and be able to make all the necessary decisions needed for promoting the product in markets.</p> <p><b>CO3.</b> Develop self-leadership strategies to enhance personal and professional effectiveness.</p> <p><b>CO4.</b> Figure out the implications of current trends in social media marketing and emerging marketing trends.</p> <p><b>CO5.</b> Portray decisions related to designing channel as well as physical distribution systems for making available the products in the markets.</p>
	<b>Business Policy and Environment</b>	<p><b>CO1.</b> Learn the dynamics of the business environment from a competitive and economic perspective.</p> <p><b>CO2.</b> Depict the various provisions relating to Intellectual property rights and its implementation of law in India.</p> <p><b>CO3.</b> Know the legal framework that regulates Consumer Protection Act 2018.</p> <p><b>CO4.</b> Outline the different types of sunrise sectors in India.</p> <p><b>CO5.</b> Portray the different stages of incubation center working in India.</p>
	<b>Statistics for Business Decisions</b>	<p><b>CO1:</b> Development of logical reasoning ability in students.</p> <p><b>CO2:</b> Knowledge about the applicability of various parametric and non-parametric tests for analysis of data.</p> <p><b>CO 3:</b> Ability to use SPSS to solve statistical problems.</p> <p><b>CO 4:</b> Ability to make decisions under uncertain business</p>

		situations through analysis
	<b>Advanced Auditing</b>	<p><b>CO-1:</b> Knowing the Indian Auditing Standards and Audit Procedures.</p> <p><b>CO-2:</b> Learning the auditing practice of different sectors.</p> <p><b>CO-3:</b> Preparation of audit report as per CARO 2016.</p> <p><b>CO-4:</b> Practice of audit through online.</p>
<b>II</b>	<b>Capital Market Instruments</b>	<p><b>CO-1:</b> learning conceptual and practical knowledge on Capital market and its operations in India</p> <p><b>CO-2:</b> Valuation of financial securities like bond, debenture and stocks.</p> <p><b>CO-3:</b> Mechanism and application of forwards/futures, options, financial swaps.</p> <p><b>CO-4:</b> Learn online trading mechanism of derivatives instruments</p>
	<b>Human Resource Management</b>	<p><b>CO1:</b> Understanding of the concept, functions and process of human resource management.</p> <p><b>CO2:</b> Provide practical knowledge on preparation of job description and job specification.</p> <p><b>CO3:</b> Enhance the practical knowledge on human resource planning in an organization.</p> <p><b>CO4:</b> Design and formulate various HRM processes such as Recruitment, Selection, Training, Development, Performance appraisals.</p> <p><b>CO5:</b> Understanding of compensation and reward system adopted in an organization.</p> <p><b>CO6:</b> Understanding the adoption of E-HRM practices in an organization.</p>
	<b>Organizational Behaviour</b>	<p><b>CO1.</b> Comprehend the conceptual frame work of management and organizational behavior</p> <p><b>CO2.</b> Understanding the complexities associated with management of individual behavior and group behavior in the organization.</p> <p><b>CO3.</b> Application of various motivational theories in anchoring the behavior of employees in an organization</p> <p><b>CO4.</b> Apply creative, critical and reflective thinking to address organizational opportunities and challenges.</p>
	<b>Computer</b>	<b>CO1:</b> The application of accounting software for preparation of

	<b>Application in Commerce</b>	<p>financial statements by using tally ERP.9.</p> <p><b>CO2:</b> Application of capital budgeting techniques such as NPV, IRR, PV etc., by using MS-Excel.</p> <p><b>CO3:</b> Analyze the research data by using SPSS software.</p> <p><b>CO4:</b> Filing of income tax return Forms and TDS Return and E-filing of indirect taxes return and filing of online application for PAN and TAN.</p> <p><b>CO5:</b> Preparation of financial report by using XBRL.</p>
	<b>Strategic Management</b>	<p><b>CO1:</b> Understand the basic concepts and principles of strategic management analyze the internal and external environment of business</p> <p><b>CO2:</b> Recognize the organizational strategies that are effective in the current business environment</p> <p><b>CO3:</b> Application of different strategic approaches to manage a business successfully in a global context.</p> <p><b>CO4:</b> Learn to construct their own strategy to start a business.</p>
	<b>Stock Market and Investment Decisions</b>	<p><b>CO-1:</b> Enhancing the knowledge on theoretical and practical concepts of Indian stock markets and Stock Market Instruments</p> <p><b>CO-2:</b> Understanding the Trading mechanism in stock market</p> <p><b>CO-3:</b> Analyze the Stock price movement using BSE-SENSEX and NSE-NIFTY as benchmark indices</p> <p><b>CO-4:</b> Learning online trading mechanism</p>

## Department of Science in Chemistry

### Programme Outcomes:

1. To provide a broad foundation in Chemistry that stresses scientific reasoning and analytical problem solving with a molecular perspective.
2. Understanding of experimentation, observation and data analysis suitable for any Chemistry based industry.
3. A post-graduation in Chemistry provides the opportunities in research and development institutions.
4. A post-graduation in Chemistry provides the opportunities in educational sector, pharmaceutical companies and chemical industries.

### Course Outcomes:

Semester	Subject	Outcomes
<b>I</b>	<b>Concepts and Models of Inorganic Chemistry + Inorganic Chemistry Practicals-I</b>	<ol style="list-style-type: none"> <li>1. Compared the trends in the properties of all group elements with respect to periodicity.</li> <li>2. Examined and applied the structural arrangement in metals, ionic, covalent compounds and inorganic solids.</li> <li>3. Understand and differentiate the different theories of inorganic chemistry.</li> <li>4. Demonstrated the principles of gravimetric and spectrophotometric determinations.</li> </ol>
	<b>Reaction Mechanism + Organic Chemistry Practicals-I</b>	<ol style="list-style-type: none"> <li>1. Recalled the fundamental principles of organic reactions.</li> <li>2. Students able to understand the concepts related to substitution and addition reactions.</li> <li>3. Students able to understand the concepts related to binary mixture separation</li> <li>4. Recalled the importance of synthetic organic chemistry and the applications in chemical industries.</li> </ol>
	<b>Physical Chemistry-I + Physical Chemistry Practicals-I</b>	<ol style="list-style-type: none"> <li>1. Apply the principles of thermodynamics and kinetics to advanced concepts.</li> <li>2. Students able to understand the concepts related to fugacity and fast reactions.</li> <li>3. Demonstrated the principles of conductometric titrations.</li> <li>4. Demonstrated the principles of kinetics and potentiometric titrations.</li> </ol>
	<b>Symmetry, Group Theory and Chemical Spectroscopy</b>	<ol style="list-style-type: none"> <li>1. Understand and differentiate the different type's symmetry elements.</li> <li>2. Students advanced their skills in 3dimensional analysis of molecular structures.</li> <li>3. Formulate and discussed the different spectroscopic techniques.</li> </ol>
	<b>Fundamentals of Chemical Analysis +</b>	<ol style="list-style-type: none"> <li>1. Students able to understand the Language of analytical chemistry and data analysis</li> </ol>



	<b>Analytical Chemistry Practicals-I</b>	<ol style="list-style-type: none"> <li>2. Students able to understand principles involved in different types of titrations.</li> <li>3. Demonstrated the principles of pHmetric determinations.</li> <li>4. Demonstrated the principles of water analysis.</li> </ol>
<b>II</b>	<b>Coordination Chemistry + Inorganic Chemistry Practicals-II</b>	<ol style="list-style-type: none"> <li>1. Students able to understand the preparation of coordination compounds and crystal field theory.</li> <li>2. Students able to understand the electronic spectra, magnetic properties and electron transfer processes.</li> <li>3. Demonstrated the principles of analysis of low melting alloys.</li> <li>4. Demonstrated the principles of semi micro qualitative analysis of inorganic mixtures.</li> </ol>
	<b>Stereochemistry and Heterocyclic Chemistry + Organic Chemistry Practicals-II</b>	<ol style="list-style-type: none"> <li>1. Students able to understand the stereochemistry of the organic compounds.</li> <li>2. Students able to understand the nomenclature and reactions of heterocyclic compounds.</li> <li>3. Demonstrated the principles of preparation associated with organic compounds preparation.</li> <li>4. Demonstrated the principles of molecular rearrangements.</li> </ol>
	<b>Physical Chemistry-II + Physical Chemistry Practicals-II</b>	<ol style="list-style-type: none"> <li>1. Students able to understand the electrochemistry of solutions and electrode process.</li> <li>2. Students able to understand the basic concepts of quantum chemistry.</li> <li>3. Demonstrated the principles of kinetics and potentiometric titrations.</li> <li>4. Demonstrated the principles of electroanalytical titrations.</li> </ol>
	<b>Molecular Spectroscopy-II</b>	<ol style="list-style-type: none"> <li>1. Students able to understand the NMR spectroscopy.</li> <li>2. Students able to understand the ESR &amp; NQR spectroscopy.</li> <li>3. Students able to understand the Mass and IR spectroscopy.</li> </ol>
	<b>Separation Techniques + Analytical Chemistry Practicals-II</b>	<ol style="list-style-type: none"> <li>1. Students able to understand the Fundamentals of chromatography.</li> <li>2. Students able to understand the applied chromatography and separation techniques.</li> <li>3. Demonstrated the principles of precipitation titrations.</li> <li>4. Demonstrated the principles of chromatographic techniques.</li> </ol>

## Department of Science in Microbiology

### Programme Outcomes:

- The micro impacts modern medicine, food services, industry and many more.
- Knowledge of microbes and how they function has allowed us to decrease deaths related to food and drugs that.
- State of art knowledge about various methodological and analytic approaches that are used within the specialization. Knowledge of the leading edge in a chosen specialized area of Microbiology, based on own research experience from a master's project and international literature.
- In-depth knowledge in the structure of a repertoire of microorganisms, metabolism in the cell, knowledge of the concepts of molecular genetics and biosynthesis of proteins, enzymology, physiology, microbial pathogenicity, environmental and agricultural microbiology, genetic engineering, bioengineering and a good theoretical and practical insight into methods used to obtain this knowledge.
- Demonstrate practical skills in the use of tools, technologies and methods common to microbiology, and apply the scientific method and hypothesis testing in the design and execution of experiments.

### Course Outcomes:

Semester	Subject	Outcomes
<b>I</b>	<b>Subject Name</b>  <b>MB 1.1HC :Virology</b>	<b>Outcome 1.</b> Understood what are viruses and the chemical nature of viruses, different types of viruses infecting animals, plants and bacteria (bacteriophages) <b>Outcome 2.</b> Understanding about the biology of bacteriophages. <b>Outcome 3.</b> Gained knowledge of a variety of plant viruses and animal viruses. <b>Outcome 4.</b> The ability to describe role of viruses in the causation of the cancer'
	<b>MB 1.2 HC:</b> <b>Bacteriology</b>	<b>Outcome 1.</b> Describe characteristics of bacterial cells, cell organelles, cell wall composition and various appendages like capsules, flagella or pili. <b>Outcome 2.</b> Differentiate a large number of common bacteria by their salient characteristics; classify bacteria into groups. <b>Outcome 3.</b> Describe the nutritional requirements of bacteria for growth; developed knowledge and

		<p>understanding that besides common bacteria there are several other microbes which grow under extreme environments.</p> <p><b>Outcome 4.</b> Perform basic laboratory experiments to study microorganisms; methods to preserve bacteria in the laboratory; calculate generation time of growing bacteria.</p>
	<b>MB 1.3 HC: Mycology</b>	<p><b>Outcome 1.</b> Describe useful and harmful activities of fungi and algae.</p> <p><b>Outcome 2.</b> Identify commonly available fungi and algae and their characteristics.</p> <p><b>Outcome 3.</b> Discuss how fungi and algae are used as biofertilizers in agriculture and as biopesticides.</p> <p><b>Outcome 4.</b> Grow mushroom in the laboratory.</p>
	<b>MB 1.4 SC: Microbial Genetics</b>	<p><b>Outcome 1.</b> Understood genome organization of model organisms namely E.coli and Saccharomyces, and the molecular mechanisms that underlie mutations.</p> <p><b>Outcome 2.</b> Developed a fairly good knowledge about the three well known mechanisms by which genetic material is transferred among the microorganisms namely transformation, transduction and conjugation.</p> <p><b>Outcome 3.</b> Are able to describe different types of the extrachromosomal elements or the plasmids; the nature of the transposable elements in the prokaryotic and the eukaryotic cells.</p> <p><b>Outcome 4.</b> Hands on skills of isolation of plasmid DNA from bacterial cells and its visualization by performing agarose gel electrophoresis</p>
<b>II</b>	<b>MB 2.1 HC: Microbial Physiology</b>	<p><b>Outcome 1.</b> Describing the growth characteristics of the microorganisms capable of growing under unusual environmental condition of temperature, oxygen, and solute and water activity.</p> <p><b>Outcome 2.</b> Describing the growth characteristics of the microorganisms which require different nutrient for growth and the associated mechanisms of energy generation for their survival like autotrophs, heterotrophs, chemolithoautotrophs etc.</p> <p><b>Outcome 3.</b> Differentiating concepts of aerobic and anaerobic respiration and how these are manifested in the form of different metabolic pathways in microorganisms.</p>

	<p><b>MB 2.2 HC: Immunology</b></p>	<p><b>Outcome 1:</b> Conceptualize how the collection of individual clones of lymphocytes (termed the “immune repertoire”) arises from rearrangement within two genetic loci: the Ig gene in B cells and the antigen receptor in T cells.</p> <p><b>Outcome 2:</b> Learn how “clonal selection” allows for the expansion of a limited number of antigen-recognizing lymphocytes in response to an specific antigenic stimulus</p> <p><b>Outcome 3:</b> Begin to appreciate the significance of maintaining a state of immune tolerance sufficient to prevent the emergence of autoimmunity.</p> <p><b>Outcome 4:</b> To understand about Tumor Immunology and help the students to understand its immune prophylaxis and immune therapy.</p>
	<p><b>MB 2.3 SC: Food Microbiology</b></p>	<p><b>Outcome 1:</b> Understand the beneficial role of microorganisms in fermented foods and in food processing and the microbiology of different types of fermented food products – dairy, pickles, Legume and cereal based food products</p> <p><b>Outcome 2:</b> Understand the significance and activities of microorganisms in food and role of intrinsic and extrinsic factors on growth and survival of microorganisms in foods</p> <p><b>Outcome 3:</b> Know the spoilage mechanisms in foods and thus identify methods to control deterioration and spoilage</p> <p><b>Outcome 4:</b> Recognize and describe the characteristics of important pathogens and spoilage microorganisms in foods.</p>
	<p><b>Open elective: Tourism and Hospitality Managene</b></p>	<p><b>Outcome1:</b> Demonstrate knowledge of multicultural perspectives to meet the needs of the guests and employees.</p> <p><b>Outcome 2:</b> Lead with the knowledge that the foundation of tourism is based on the respect for the host culture with the responsibility to perpetuate the unique values, traditions, and practices of that place.</p> <p><b>Outcome 3:</b> Use knowledge of best practices to further sustainability (economic, environmental, and cultural/social) in the industry.</p> <p><b>Outcome 4:</b> Demonstrate ability to perform basic and supervisory level job functions in travel/tourism careers.</p>

## Department of Science in Biochemistry

### Program Outcomes:

1. An ability to acquire in-depth theoretical and practical knowledge of Biochemistry, to demonstrate an understanding of structure and metabolism of biological macromolecules and understand the regulation and disorders of metabolic pathways.
2. Gain proficiency in laboratory techniques in biochemistry and biological sciences like immunology, physiology and biotechnology, and be able to apply the scientific method to the processes of experimentation and hypothesis testing.
3. An ability to properly understand the technical aspects of existing technologies and to provide cost efficient solutions that help in addressing the biological and medical challenges faced by mankind.
4. An ability to translate knowledge of Biochemistry to address environmental, intellectual, societal and ethical issues through innovative thinking and research strategies.

### Course Outcome:

Semester	Subject	Outcomes
<b>I</b>	<b>1.1 HC: Bioorganic and Bioinorganic chemistry</b>	<i>After studying this paper the students will know –</i> <i>a. The basics in metabolic reactions.</i> <i>b. Different types of heterocyclic compounds and their biological role.</i>
	<b>1.2 HC: Biochemical Techniques</b>	<i>After studying this paper the students will know –</i> <i>a. Chemistry of spectroscopy.</i> <i>b. Importance of biochemical techniques in research.</i>
	<b>1.3 HC: Biophysical Techniques</b>	<i>After studying this paper the students will know –</i> <i>a. Chemistry of spectroscopy, NMR etc.,</i> <i>b. Importance of biophysical techniques in research.</i>
	<b>1.4 HC Practical 1</b>	<i>After studying this paper the students will know –</i> <i>a. Independently design and execute Biochemical analysis experiments.</i> <i>b. To assess the data and give an inference based on biochemical basis.</i>
	<b>1.5 SC: Biomolecules</b>	a. The Chemistry of biomolecules. b. The fundamental principles in sequencing of DNA. c. Importance of biomolecules in the biological system.

	<b>1.6 SC: Physiology and Nutrition</b>	<i>After studying this paper the students will know –</i> <i>a. Human Physiology and anatomy.</i> <i>b. the functioning of the animal tissues.</i>
<b>II</b>	<b>2.1 HC: Enzymology</b>	<i>After studying this paper the students will know –</i> <i>a. Chemistry of enzyme catalysis.</i> <i>b. Enzyme kinetics and industrial importance of enzymes.</i> <i>c. Metabolic Regulation of enzyme activity.</i>
	<b>2.2 HC: Aminoacid Metabolism</b>	<i>After studying this paper the students will know –</i> <i>a. Chemistry of protein and amino acid metabolism. .</i> <i>b. Importance of protein and amino acid metabolism.</i> <i>c. Role of hormones in the regulation of protein and amino acid metabolism.</i>
	<b>2.3 HC: Practical 2</b>	<i>After studying this paper the students will know –</i> <i>a. Chemistry and analysis of enzyme catalysis.</i> <i>b. assessment of Enzyme kinetics. Isolation and purification of enzymes.</i> <i>c. basic Immunological techniques.</i> <i>d. Inhibitory studies of enzymes.</i>
	<b>2.4 SC: Carbohydrate Metabolism</b>	<i>After studying this paper the students will know –</i> <i>a. Chemistry of carbohydrate metabolism.</i> <i>b. The fundamental thermodynamic principles in metabolism.</i> <i>c. Importance of carbohydrate metabolism.</i> <i>d. Role of hormones in the regulation of carbohydrate metabolism.</i>
	<b>2.5 SC: Lipid Metabolism</b>	<i>After studying this paper the students will know –</i> <i>a. Chemistry of lipid metabolism. .</i> <i>b. Importance of lipid metabolism.</i> <i>c. Role of hormones in the regulation of lipid metabolism.</i>
	<b>2.6 OE: Clinical Diagnosis in Health and Disease</b>	<i>The student will get an idea about the concept of clinical diagnosis and underpinning the successful application of therapeutic research or biologic response modifiers.</i>

## Department of Science in Biotechnology

### Programme Outcome:

1. Comprehend and integrate theoretical and practical skills and knowledge in basic and applied disciplines of biotechnology to develop a research plan to solve biotechnological problems.
2. Be able to design new biotechnological products or processes by applying knowledge of biotechnology in an integrated manner.
3. Be trained enough to take employment in diverse areas of biotechnology as well as for further higher studies.

### Course Outcomes:

Semester	Subject	Outcomes
<b>I</b>	<b>Bioanalytical Techniques</b>	<ul style="list-style-type: none"> <li>• This skill based course will teach the students the various instrumentations that are used in the analytical laboratories.</li> <li>• This course covers both fundamental and applications of the instruments that are routinely used for the characterization of biomolecules</li> <li>• At the end of the course, the student has the basic knowledge on the theory, operation and function of analytical instruments.</li> </ul>
	<b>Biostatistics and Bioinformatics</b>	<ul style="list-style-type: none"> <li>• knowledge of basic statistical methods to solve problems</li> <li>• Students are taught to operate various statistical software packages</li> <li>• By the end of the course, the students are able to appreciate the importance of statistics in research and prepares them for a career in research</li> <li>• The student will be able to apply basic principles of biology, computer science and mathematics to address complex biological problems</li> </ul>
	<b>Microbiology</b>	<ul style="list-style-type: none"> <li>• This paper discusses the importance of microorganisms</li> <li>• The course throws light on types of microorganisms in and around humans</li> <li>• At the end of the course, the student has understanding on the metabolism and mechanism of microbial life</li> </ul>
	<b>Food &amp; Environmental Biotechnology</b>	<ul style="list-style-type: none"> <li>• The student will be able to evaluate the potential of biodegradation of organic pollutants, taking microbial and physical/chemical environments, as well as the chemical structure of the compound itself, into consideration</li> </ul>

		<ul style="list-style-type: none"> <li>• Students will learn about the environmental quality evaluation, monitoring, and remediation of contaminated environments.</li> <li>• Students will learn about the use of biosensors in environmental analysis, environmental engineering</li> <li>• Have developed an understanding of the application of biotechnology in animal, plant and food production</li> <li>• Identifying the foodborne diseases and causative agents with their social impacts.</li> <li>• Understanding of the advanced principles of food processing and how to choose a method of preservation in relation to food composition</li> </ul>
	<b>Biochemistry</b>	<ul style="list-style-type: none"> <li>• Through this course the students are exposed to importance of biological macromolecules</li> <li>• They acquire knowledge in the quantitative and qualitative estimation of biomolecules</li> <li>• They study the influence and role of structure in reactivity of biomolecules</li> <li>• At the end of the course, the students have a thorough understanding on the role of biomolecules and their functions</li> </ul>
<b>II</b>	<b>Molecular biology</b>	<ul style="list-style-type: none"> <li>• Molecular Biology gives in-depth knowledge of biological processes through the investigation of the underlying molecular mechanisms.</li> <li>• Students will gain an understanding of chemical and molecular processes that occur in and between cells</li> <li>• Students will gain an understanding of the molecular and cell-based methods used today to expand our understanding of biology.</li> </ul>
	<b>Genetic engineering</b>	<ul style="list-style-type: none"> <li>• In this course, students will explore the molecular methods and applications of recombinant DNA technology</li> <li>• The issues regarding the effect of genetic engineering on medicine, agriculture, biology, forensics and other areas of technology.</li> <li>• At the end of the course, a successful student will be able to understand and explain the concept of genetic engineering including the techniques, applications and limitations</li> </ul>
	<b>Molecular genetics</b>	<ul style="list-style-type: none"> <li>• In this course, the student shall be able to understand gene concept and organization and their implication.</li> <li>• The course teaches the students about genes at molecular level.</li> </ul>



		<ul style="list-style-type: none"> <li>• Students will learn about DNA, RNA and their replication, mutations, DNA repair mechanism.</li> <li>• The course outcome is to train the students in understanding genetics and relate modern DNA technology for disease diagnostics and therapy</li> </ul>
	<b>Cell biology and cellular signaling</b>	<ul style="list-style-type: none"> <li>• This course introduces the students to the basics of cell and its components.</li> <li>• This gives them a strong foundation on the basic unit of life.</li> <li>• At the end of the course, the student has a strong foundation on the functions of the cell.</li> </ul>

## Department of Science in Botany

### Programme Outcomes:

1. Think Critically - Get ability to apply the process of science by formulating hypotheses and design experiments based on the scientific method.
2. Analyze and interpret results generated through studies in botany, taxonomical treatments, field studies, excursion tours and laboratory techniques used in the subject.
3. Use quantitative reasoning by using mathematical calculations and graphing skills to solve problems in plant science.
4. Effective Communication and collaborate with other disciplines by effectively communicating the fundamental concepts of Botany in written and oral format.
5. Environment and Sustainability: Understand the issues of environmental contexts and sustainable development with respect to assessment, conservation and utilization of floral diversity

### Course Outcomes:

Semester	Subject	Outcomes
<b>I</b>	<b>Subject Name: VIROLOGY, BACTERIOLOGY, MYCOLOGY AND PLANT PATHOLOGY</b>	<ol style="list-style-type: none"> <li>1. Identify and classify the Viruses by using the key characters.</li> <li>2. Identify and classify the Bacteria by using the key characters.</li> <li>3. Identify and classify the Fungi by using the key characters.</li> <li>4. Prepare and view specimens for examination using light microscopy</li> <li>5. Identification and management of important plant diseases</li> </ol>
	<b>Subject Name: Phycology, Bryophytes, Pteridophytes and Gymnosperms</b>	<ol style="list-style-type: none"> <li>1. Identify and classify the Algae by using the key characters.</li> <li>2. Identify and classify the Bryophytes by using the key characters.</li> <li>3. Identify and classify the Pteridophytes by using the key characters.</li> <li>4. Identify and classify the Gymnosperms by using the key characters.</li> <li>5. Prepare and view algal specimens for examination using light microscopy</li> </ol>
	<b>Subject Name: Systematics of Angiosperms</b>	<ol style="list-style-type: none"> <li>1. Estimate the number of floral components by using enumeration and suitable sampling and techniques.</li> <li>2. Use appropriate plant molecular techniques and use of instrumentation related to taxonomy of angiosperms.</li> <li>3. Practice safe laboratory procedures, using appropriate protective, biosafety and emergency procedures.</li> </ol>

		4. Documentation and report writing on experimental protocols, results and conclusions, study tours and filed visits etc.
	<b>Subject Name: Algal Biology and Biotechnology</b>	1. Use techniques for the production of Single cell proteins, single cell lipids 2. Solve the environmental problems using algal species. 3. Use techniques for the production of biofertilizers
	<b>Subject Name: Phytopathology</b>	1. Identify and classify the important diseases of the plant by using the key characters. 2. Use molecular techniques to detect the pathogens 3. Manage the disease using molecular techniques
<b>II</b>	<b>Subject Name: Reproductive Biology of Angiosperms and Plant Morphogenesis</b>	1. Identify and classify the plants based on embryological characteristics 2. Use microscopic techniques to identify the developmental pattern of plants 3. Use microtome techniques to study the anatomical features of the plants
	<b>Subject Name: Cell Biology and genetics</b>	1. Identify the cell types by using staining and microscope techniques. 2. Use molecular techniques for genome sequence 3. Use staining techniques for chromosomal studies.
	<b>Subject Name: Plant Breeding and Evolutionary Biology</b>	1. Produce superior quality seeds using breeding techniques 2. Use molecular biology techniques for Species evolution studies 3. Increase the yield of the plants by using the genetic engineering technology
	<b>Subject Name: Plant Anatomy and Histochemistry</b>	1. Use microtome and staining techniques for the study of internal structures of plants 2. Use microscopic techniques for the study of xylem, phloem etc. 3. Classify the species by using anatomical features of the plants
	<b>Ethno-Botany and Intellectual Property Rights (IPR)</b>	1. Identify and classify the medicinally important plants by using the key characters. 2. Use techniques to extract important metabolites from plants 3. Develop plant based drugs using molecular techniques

## Department of Computer Science

### Programme Outcomes:

1. Able to apply Software Engineering principles in the construction and implementation of software systems of varying complexity.
2. Able to communicate and engage effectively with diverse systems, processes and people.
3. Able to identify and develop appropriate solutions to real-world problems by developing software applications.
4. Understand, Analyse and Design efficient algorithms.
5. Able to pursue path-breaking research in Computer Science.

### Course Outcomes:

Semester	Subject	Outcomes
I	Discrete Mathematical Structures – Hard Core	<ol style="list-style-type: none"> <li>1. Apply the concepts of set theory, logic, quantifiers and relations in specifying and solving problems.</li> <li>2. Identify the quantifiers and their uses and Make use of fundamentals of logic theory.</li> <li>3. Apply the mathematical induction principle and different methods to solve the given problem.</li> <li>4. Make use of basic concepts of graph theory and solve the given problem.</li> </ol>
	Advanced Data Structures – HC	<ol style="list-style-type: none"> <li>1. Understand the ADT specification of dictionary data structure, priority queue and binary search trees.</li> <li>2. Perform insertion, deletion and searching operation on dictionary, priority queue and binary search trees.</li> <li>3. Perform the sorting using external sorting.</li> <li>4. Identify the applications of string matching algorithms and tries.</li> </ol>
	Data Communication - HC	<ol style="list-style-type: none"> <li>1. Understand the terminologies used in data transmission and physical and transmission characteristics of transmission media.</li> <li>2. Understand the signal encoding techniques and digital data communication techniques.</li> <li>3. Familiarize oneself with data link control protocols and different types of multiplexing.</li> <li>4. Comprehend the different switching techniques.</li> </ol>
	Java Programming –	<ol style="list-style-type: none"> <li>1. An understanding of different aspects of object</li> </ol>

	Soft Core	<p>oriented paradigm.</p> <ol style="list-style-type: none"> <li>2. Able to model problems and solutions using java.</li> <li>3. Able to utilise inheritance, polymorphism and other principles to model solutions.</li> <li>4. Able to create and use packages.</li> </ol>
	Operating Systems - SC	<ol style="list-style-type: none"> <li>1. Able to comprehend the operating system components and its services</li> <li>2. Able to understand how process is created and various process related components of the operating system.</li> <li>3. Able to comprehend how memory management and virtual memory management is done.</li> <li>4. Able to understand different file and directory structures and how files are stored in secondary storage.</li> </ol>
	Principles of Programming and Problem Solving - SC	<ol style="list-style-type: none"> <li>1. Learn the steps involved in problem solving and the stages involved in translation.</li> <li>2. Learn elementary data types and structured data types.</li> <li>3. Comprehend the need of inheritance and its various types.</li> <li>4. Learn the various conditional statements, control structures and different types of parameter transmission techniques.</li> </ol>
	Communication Skills – SC	<ol style="list-style-type: none"> <li>1. Students will be able to understand and apply knowledge of human communication and language processes as they occur across various contexts from multiple perspectives.</li> <li>2. Students will be able to understand and evaluate key theoretical approaches used in the interdisciplinary field of communication.</li> <li>3. Students will be able to find, use, and evaluate primary academic writing associated with the communication discipline.</li> <li>4. Students will be able to communicate effectively orally and in writing.</li> </ol>
	Computer Architecture – SC	<ol style="list-style-type: none"> <li>1. Develop an ability to understand the concept of cache mapping techniques.</li> <li>2. Develop an ability to understand basics of organizational and architectural issues of a</li> </ol>

		<p>digital computer.</p> <ol style="list-style-type: none"> <li>3. Acquire knowledge and understanding the theory of Digital Design and Computer Organization to provide an insight of how basic computer components are specified.</li> <li>4. Develop an ability to conceptualize instruction level parallelism.</li> </ol>
	Numerical Algorithms - SC	<ol style="list-style-type: none"> <li>1. Demonstrate understanding of common numerical methods and how they are used to obtain approximate solutions.</li> <li>2. Apply numerical methods to obtain approximate solutions to mathematical problems.</li> <li>3. Derive numerical methods for various mathematical operations and tasks such as solution of non-linear equations, numerical integration and ordinary differential equations.</li> <li>4. Gain an understanding of interpolation and statistical methods.</li> </ol>
II	Design and Analysis of Algorithms - HC	<ol style="list-style-type: none"> <li>1. Compare between different data structures. Pick an appropriate data structure for a design situation.</li> <li>2. Analyze Performance of algorithms using asymptotic analysis.</li> <li>3. Model problems and solutions using different design paradigms.</li> <li>4. Synthesize algorithms, and analyze them.</li> </ol>
	Computer Networks - HC	<ol style="list-style-type: none"> <li>1. Able to comprehend the functionalities needed for network communication into layers</li> <li>2. Able to choose the required functionality at each layer for given application.</li> <li>3. Able to comprehend different algorithms used in different layers.</li> <li>4. Able to understand the working principles of various application protocols.</li> </ol>
	Database Management Systems - HC	<ol style="list-style-type: none"> <li>1. Comprehend data models and schemas in DBMS.</li> <li>2. Use SQL - the standard language of relational databases.</li> <li>3. Understand the functional dependencies and design of the database.</li> <li>4. Understand the concept of Transaction and</li> </ol>

		Query processing.
	System Software - SC	<ol style="list-style-type: none"> <li>1. Develop an Ability to master the design of assembler.</li> <li>2. Able to understand various issues related to processing macros.</li> <li>3. Able to understand different loaders schemes, and related issues.</li> <li>4. Develop ability to write simple lexical analyser and parser with Lex and Yacc.</li> </ol>
	Computer Graphics - SC	<ol style="list-style-type: none"> <li>1. Acquire knowledge and understanding of the structure of an interactive computer graphics system, and the separation of system components.</li> <li>2. Acquire knowledge and understanding of device level algorithms that renders various shapes and clipping operations.</li> <li>3. Acquire knowledge and understanding of 2D and 3D geometrical transformations and viewing.</li> <li>4. Acquire knowledge and understanding of techniques for representing 3D geometrical objects.</li> </ol>
	Professional Ethics and Values - SC	<ol style="list-style-type: none"> <li>1. Know the importance of ethics and methods of developing technologies.</li> <li>2. Identify the values and ethics of professional development.</li> <li>3. Understand the causes, effects and control measures for various types of societal failures.</li> <li>4. Gain knowledge about various ethical management methods.</li> </ol>
	Pattern Recognition - SC	<ol style="list-style-type: none"> <li>1. Acquire the knowledge on basics of pattern recognition systems</li> <li>2. Demonstrate the techniques of estimations and component analysis.</li> <li>3. Implement different supervised &amp; unsupervised learning techniques.</li> </ol>
	Web Technologies - SC	<ol style="list-style-type: none"> <li>1. Develop an ability to implement HTML 5 pages using fundamental tags.</li> <li>2. Able to develop style sheet using CSS for a given problem.</li> <li>3. Able to extend JavaScript to validate a form with event handler for a given problem.</li> <li>4. Able to develop a dynamic website with database backend.</li> </ol>

	World Wide Web – Open Elective	<ol style="list-style-type: none"><li>1. Understand the working scheme of the Internet and World Wide Web.</li><li>2. Understand fundamental tools and technologies used for web design.</li><li>3. Comprehend the technologies for Hypertext Mark-up Language (HTML).</li><li>4. Figure out the various security hazards on the internet and need of security measures.</li></ol>
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## Department of MBA

### Programme Outcomes:

1. Management graduates should be able to comprehend, organize and solve complex business problems using the resources available at their discretion.
2. Management graduates should create, select and apply advanced technologies related to the latest management and information technology tools with quantitative and qualitative techniques to solve business-related issues.
3. Management graduates should be able to apply their viewpoint in the management field of study to develop fully motivated opinions on contemporary issues such as the need for innovation, integrity, leadership and change management, globalization and technology management.
4. Management graduates should improve the entrepreneurial ability to provide innovative solutions to the need of humanity.
5. Management graduates should analyze the environmental, social, political, technological, environmental, health, safety, sustainability and legal context of business.
6. Management graduates should be able to communicate effectively with society and they should be able to comprehend and write effective reports & present properly.
7. Management graduates should focus on team bonding & value-based leadership ability.
8. Management graduates should have the ability to work intelligently, individually and as a team, using techniques such as case analysis, projects and assignments.
9. Management graduates should evaluate and integrate ethical considerations into decision-making

### Course Outcomes:

Semester	Subject	Outcomes
<b>I</b>	Principles and practices of Management	<ol style="list-style-type: none"> <li>1. Explain the importance of employee motivation in an organization.</li> <li>2. Explain needs-based theories of motivation.</li> <li>3. Explain process-based theories of motivation.</li> <li>4. Describe the job characteristics that affect motivation.</li> <li>5. Explain goal-setting theory</li> </ol>
	Organizational Behavior	<ol style="list-style-type: none"> <li>1. To analyze and compare different models used to explain individual behaviour related to motivation and rewards.</li> <li>2. To identify the processes used in developing communication and resolving conflicts.</li> <li>3. To explain group dynamics and demonstrate skills required for working in groups (team building)</li> </ol>

Corporate Economics	<ol style="list-style-type: none"> <li>1. Understand the roles of managers in firms</li> <li>2. Understand the internal and external decisions to be made by managers</li> <li>3. Analyze the demand and supply conditions and assess the position of a company</li> <li>4. Design competition strategies, including costing, pricing, product differentiation, and market environment according to the natures of products and the structures of the markets.</li> <li>5. Analyze real-world business problems with a systematic theoretical framework.</li> <li>6. Make optimal business decisions by integrating the concepts of economics, mathematics and statistics.</li> </ol>
Accounting for Managers	<ol style="list-style-type: none"> <li>1. Explain the application of management accounting and the various tools used</li> <li>2. Make inter-firm and inter-period comparison, of financial statements</li> <li>3. Analyse the financial statement using various ratios</li> <li>4. Prepare Fund Flow Statement and Cash Flow Statement</li> <li>5. Prepare different budgets for the business</li> </ol>
Business Communication	<ol style="list-style-type: none"> <li>1. Apply business communication strategies and principles to prepare effective communication for domestic and international business situations</li> <li>2. Identify ethical, legal, cultural, and global issues affecting business communication.</li> <li>3. Utilize analytical and problem solving skills appropriate to business communication.</li> <li>4. Participate in team activities that lead to the development of collaborative work skills.</li> <li>5. Select appropriate organizational formats and channels used in developing and presenting business messages.</li> <li>6. Compose and revise accurate business documents using computer technology.</li> <li>7. Communicate via electronic mail Internet, and other technologies. 8. Deliver an effective oral business presentation.</li> </ol>
Statistics for Management	<ol style="list-style-type: none"> <li>1. Describe and discuss the key terminology, concepts tools and techniques used in business statistical analysis</li> <li>2. Critically evaluate the underlying assumptions of analysis tools</li> <li>3. Understand and critically discuss the issues surrounding sampling and significance</li> </ol>

		<ol style="list-style-type: none"> <li>4. Discuss critically the uses and limitations of statistical analysis</li> <li>5. Solve a range of problems using the techniques covered</li> <li>6. Conduct basic statistical analysis of data.</li> </ol>
	Computer Applications in Management	<ol style="list-style-type: none"> <li>1. Gain familiarity with the concepts and terminology used in the development, implementation and operation of business application systems.</li> <li>2. Explore various methods that Information Technology can be used to support existing businesses and strategies.</li> <li>3. Investigate emerging technology in shaping new processes, strategies and business models.</li> <li>4. Achieve hands-on experience with productivity/application software to enhance business activities.</li> <li>5. Accomplish projects utilizing business theories, Internet resources and computer technology.</li> <li>6. Work with simple design and development tasks for the main types of business information systems</li> </ol>
	Skill Development Program- 1	<ol style="list-style-type: none"> <li>1. Incorporation of skilling in the students, providing opportunities for quality long and short-term skill training, by providing gainful employment and ensuring career progression that meets the aspirations of trainees.</li> </ol>
<b>II</b>	Marketing Management	<ol style="list-style-type: none"> <li>1. Critically evaluate the key analytical frameworks and tools used in marketing Apply key marketing theories, frameworks and tools to solve Marketing problems</li> <li>2. Utilise information of a firm's external and internal marketing environment to identify and prioritise appropriate marketing strategies</li> <li>3. Exercise critical judgement through engagement and reflection with existing marketing literature and new developments in the marketing environment</li> <li>4. Critically evaluate the marketing function and the role it plays in achieving organisational success both in commercial and non-commercial settings</li> <li>5. Evaluate and act upon the ethical and environmental concerns linked to marketing activities</li> </ol>
	Human Resource Management	<ol style="list-style-type: none"> <li>1. Explain the scope of HRM</li> <li>2. understand the meaning and nature of strategic HRM</li> <li>3. appreciate how HR strategies are related to business strategies</li> <li>4. describe how HR strategies can be informed by a</li> </ol>

		<p>knowledge of labour markets and product markets locally, nationally and internationally</p> <p>5. describe the dynamic nature of global competition and of social and technological trends and their significance for HRM practice</p>
	Corporate Finance	<ol style="list-style-type: none"> <li>1. Be able to described and evaluate the different sources of corporate finance (e.g. equity, debt, retained earnings and so on ...)</li> <li>2. To be able to explain the relative advantages and disadvantages of each source.</li> <li>3. Understand how risk and the cost of capital impact on investment</li> <li>4. appraisal, and explain how such factors affect the value of a capital project.</li> <li>5. Approximate the organisation's cost of capital, and understand how this cost is impacted by taxation, "leverage" and other factors.</li> <li>6. Assess the external and internal influences on a corporation's capital structure, payout policy and policy in respect of risk management (via insurance, derivatives, and other instruments).</li> <li>7. Explain how the corporation's capital structure, payout policy and risk policy impact upon investment decisions.</li> <li>8. Have good understanding of, and be able to discuss current topical issues under debate in the world of corporate finance.</li> </ol>
	Business Research Methods	<ol style="list-style-type: none"> <li>1. Have an understanding of various kinds of research, objectives of doing research, research process research designs and sampling.</li> <li>2. Be able to formulate research problem and develop a sufficiently coherent research design.</li> <li>3. Have basic knowledge on qualitative, quantitative as well as measurement &amp; scaling techniques</li> <li>4. Have a basic awareness of data analysis, including descriptive &amp; inferential measures.</li> <li>5. Be able to write &amp; develop independent thinking for critically analyzing research reports.</li> </ol>
	Operations Management	<ol style="list-style-type: none"> <li>1. understand the input–process–output framework, the extensions of it, and apply them to a wide range of operations</li> <li>2. examine the types of transformation processes</li> </ol>

		<p>occurring within operations</p> <ol style="list-style-type: none"> <li>3. define the roles and responsibilities of operations managers and the challenges they face reflect on your own operations management responsibilities, if applicable</li> <li>4. understand the content of an operations strategy and the decisions involved</li> </ol>
	Legal aspects of Business	<ol style="list-style-type: none"> <li>1. Explain the basic elements of forming an enforceable contract and agreement.</li> <li>2. Classify various negotiable instruments and reason of its dishonor.</li> <li>3. Enumerate the types of companies its management and its rules of corporate governance.</li> </ol>
	Skill Development Program-2	<ol style="list-style-type: none"> <li>1. Deal with nerves and think more positively about public speaking.</li> <li>2. Consider ways of grabbing the listener's attention, holding their interest, and concluding strongly.</li> <li>3. Use body language and tone of voice to enhance their presentations.</li> </ol>

## Department of Computer Application

### Programme Outcomes:

PO 1: Develop strong critical thinking skills to assess why certain solutions might not work and to save time in coming up with the right approach in the field of Computing.

PO 2: Critically Analyse problems and issues to build appropriate solutions in the form of programs and implement them.

PO 3: Develop an understanding of the professional ethics and values.

PO 4: Able to recognize the need of lifelong learning, have the ability to apply the techniques, skills and tools learnt in practice.

PO 5: Communicate effectively and efficiently to present the technical knowledge gained in projects with respect to societal aspects.

PO 6: Study and review literatures relating to Computer Science, invoke the research skills needed to interpret, make inferences from the Literatures and design better systems.

### Course Outcomes:

Semester	Subject	Outcomes
<b>I</b>	<b>Discrete Mathematical Structures- Hard Core</b>	<ol style="list-style-type: none"> <li>1. Apply the principles of counting and set theory.</li> <li>2. Identify the quantifiers and their uses and Make use of fundamentals of logic theory and proofs.</li> <li>3. Apply the concepts of mathematical induction, relations and functions to solve given problem.</li> <li>4. Make use of basic concepts of graph theory and solve the given problem.</li> </ol>
	<b>C Programming- HC</b>	<ol style="list-style-type: none"> <li>1. Employ the basics of C to write and execute simple C programs.</li> <li>2. Use Branching and looping statements in the logic of the program.</li> <li>3. Implement user defined functions effectively.</li> <li>4. Apply the concept of pointers and file handling operations in C.</li> </ol>
	<b>Fundamentals Data Structures HC</b>	<ol style="list-style-type: none"> <li>1. Analyze algorithms and algorithm correctness.</li> <li>2. Summarize searching and sorting techniques</li> <li>3. Describe stack, queue and linked list operation.</li> <li>4. Solve the problems writing algorithms by using fundamental data structures</li> </ol>
	<b>Data Communication and Networks- Soft Core</b>	<ol style="list-style-type: none"> <li>1. Acquire knowledge on basics of Data communication components.</li> <li>2. Understand the usage of different protocols of Data link layer.</li> <li>3. Working of network layer and routing protocols.</li> </ol>

		4. Gain In-depth knowledge in the different concepts involved in transport layer and application layer.
	<b>E-Commerce - SC</b>	<ol style="list-style-type: none"> <li>1. Analyze the impact of E-commerce on business models and strategy</li> <li>2. Describe Internet trading relationships including Business to Consumer, Business-to-Business, Intra-organizational structures.</li> <li>3. Assess electronic payment systems and its securities.</li> <li>4. Recognize and discuss global E-commerce issues</li> </ol>
<b>II</b>	<b>Analysis and Design of Algorithms- Hard Core</b>	<ol style="list-style-type: none"> <li>1. Model, and analyze a given problem as an algorithm.</li> <li>2. Investigate whether the algorithm found is the most efficient.</li> <li>3. Formulate the space needs, time order analysis for the implementation of an algorithm.</li> <li>4. Apply appropriate approximation algorithms for P and NP type problems.</li> </ol>
	<b>Operating System- Hard Core</b>	<ol style="list-style-type: none"> <li>1. Understand the usage of the operating system components and its services.</li> <li>2. Employ the concepts of process management.</li> <li>3. Employ the concepts of Memory Management.</li> <li>4. Apply the file handling concepts in OS perspective.</li> </ol>
	<b>Object - Oriented Programming with C++ Hard Core</b>	<ol style="list-style-type: none"> <li>1. Employ the syntax and semantics of the C++ programming language.</li> <li>2. Use function prototyping and different methods involved in function implementation.</li> <li>3. Implement extended Object oriented programming techniques.</li> <li>4. Describe and implement the significance of files and I/O operations.</li> </ol>
	<b>Fundamentals of IoT Technology- Soft Core</b>	<ol style="list-style-type: none"> <li>1. Interpret the impact of IoT networks in new architectural models.</li> <li>2. Compare and contrast the deployment of smart objects and technologies to connect them as network.</li> <li>3. Elaborate the need of data analytics in IoT.</li> <li>4. Identify the application of IoT in Smart and Connected Cities and Public Safety.</li> </ol>

## Department of Social Work - MSW

### Programme Outcomes:

1. Provides education and training in social work to students in making a career in social work practice.
2. Provides opportunities through intensive field practicum to work with variety of people in their development and provide service to those who are in need of it.
3. Provides inter-disciplinary collaboration for better understanding of human problems, services and issues related to human development.
4. Students shall be able to link theory with practice in every sphere of human service endeavors.
5. The course develops requisite knowledge, skills and values in working with people
6. Promotes a sense of responsibility and commitment to work with different sections of people and especially of the vulnerable sections of the society
7. Promotes opportunities and to create awareness for personal growth
8. Assists students acquire knowledge and skills in undertaking practice-based research and to administer human service organizations.

### Course Outcomes:

Semester	Subject	Outcomes
<b>I</b>	<b>SOCIAL WORK - HISTORY AND IDEOLOGIES</b>	<p><b>Helps students:</b></p> <ol style="list-style-type: none"> <li>a. Understand the history of evolution of social work profession, both in India and the West.</li> <li>b. Develop insights into the origin and development of ideologies, approaches to social change.</li> <li>c. Understand rationale, goals, ideals and ethics for social change.</li> <li>d. Understand the perceptions of people and social problems, the status of benefactors and their motives.</li> <li>e. Develop skills to understand contemporary reality in its historical context.</li> <li>f. Understand self as a part of own environment and explore own assumptions, ideals, values to develop sensitivity to marginalization of vulnerable groups.</li> </ol>
	<b>SOCIETY AND DYNAMICS OF HUMAN BEHAVIOUR</b>	<p><b>Helps students:</b></p> <ol style="list-style-type: none"> <li>a. Understand the concepts to examine social phenomena.</li> <li>b. Develop skills to analyse Indian society and change.</li> <li>c. Understand the concepts change and conflict.</li> <li>d. Understand interactional nature of growth and behavior at various stages in the life span and impact of cultural aspects on the individual.</li> </ol>



		e. Apply the information of growth, development and health in social work practice in general and to individuals, groups and communities in particular.
	<b>WORK WITH INDIVIDUALS AND FAMILIES</b>	<p>a. Understand casework as a method of social work, and appreciate its place in social work practice.</p> <p>b. Understand the values and principles of working with individuals and families.</p> <p>c. Develop the ability to critically analyse problems of individuals and families and factors affecting them.</p> <p>d. Enhance understanding of the basic concepts, tools and techniques in working with individuals and families, in problem-solving and in developmental work.</p> <p>e. Develop appropriate skills and attitudes to work with individuals and families.</p>
	<b>WORK WITH GROUPS</b>	<p>a. Develop awareness about the specific characteristics of Group Work and its contributions as a method of social work intervention,</p> <p>b. Gain knowledge about group formation and the use of a variety of group approaches.</p> <p>c. Develop understanding of concepts, dynamics and small group theory in relation to all types of groups, e.g. family, staff, committee, long-term client groups.</p> <p>d. Identify the various situations and settings where the method could be used in the context of social realities of the country.</p>
	<b>WORK WITH COMMUNITIES</b>	<p>a. Understand the critical elements of community organisation practice.</p> <p>b. Enhance critical understanding of the models and strategies for community organisation practice.</p> <p>c. Make the micro-macro connections between the range of complex issues in practice.</p> <p>d. Develop attitudes conducive to participatory activities for civil society.</p>
	<b>SOCIAL WORK PRACTICUM - I</b>	<p><b>Orientation</b> provides information regarding.</p> <p>i. the importance and place of the practicum in the educational programme.</p> <p>ii. the purpose, functions and ethics in professional practice.</p> <p>In the first four weeks, the learners may make a local</p>

		<p>directory to include emergency numbers of Hospitals/ PHCs/ Police/ Panchayath Office and Network Agencies along with references to other developmental and welfare services in the location.</p> <p><b>Visits</b> - provide an exposure to and understanding of the services provided in responses to people's needs. (Agencies in health setting, education, community, institutional services, criminal justice system, civic administration, rehabilitation etc.)</p> <p><b>Structured experience laboratory</b> - is a classroom activity, which provides opportunities through the games/activities, to form the involvement of self in various practice skills. These laboratory experiences are designed in small groups to encourage participation, sharing of the experience and aid in examining learning and applications of skills. These sessions have a specific objective of experiencing self, and applying /using self in practice. (Relationship skills, Communication skills etc., will be focused)</p> <p><b>Concurrent practice learning of two-days a week</b> - on going learning of practice is an opportunity to develop intervention skills in reality situations. This entails learning social work practice for two, or two and a half days or its equivalent, each week of the semester.</p> <p>The learners may be placed in agencies or in communities to initiate and participate in direct service delivery. Practice learning is a vital component of the educational opportunity to be provided to the learner. The teaching-learning process must be designed to help the learner to move on the mastering strategies, skills and techniques to practice social work.</p>
<p style="text-align: center;"><b>II</b></p>	<p><b>MANAGEMENT OF DEVELOPMENTAL AND WELFARE SERVICES</b></p>	<ol style="list-style-type: none"> <li>a. Understand the overall environment and its impact on the nature, structure and development of organizations in corporate, public and voluntary sectors in the context of social work profession.</li> <li>b. Understand policies and procedures involved in establishing and maintaining human service organizations.</li> <li>c. Acquire skills to network and participate in the management of resources - human, material and environmental.</li> <li>d. Develop skills to participate in management of programmes, as a part of the inter-disciplinary team and initiate as well as develop new programmes.</li> <li>e. Develop ability to analyse the practices applied in</li> </ol>

		<p>specific settings.</p>
	<p><b>SOCIAL WORK RESEARCH AND STATISTICS</b></p>	<p>a. Develop an understanding of scientific approach to human inquiry in comparison to the native or common sense approach in various aspects, and its process.</p> <p>b. Understand major research strategies, meaning, scope and importance of social work research.</p> <p>c. Develop an ability to see the linkages between practice, research, theory and their role in enriching one another.</p> <p>d. Develop ability to conceptualize, formulate and conduct simple research projects/exercises (This would include a broad range of basic research skills such as conceptualization of a research strategy and problem; writing a research proposal; developing tools for collecting data; use of sampling, strategies; data collection, processing, presentation, analysis and interpretation; and writing research report etc).</p> <p>e. Make informed assessment and judicious use of research studies and findings.</p> <p>f. Develop skills for use of library and documentation services for research.</p>
	<p><b>SOCIAL WORK PRACTICUM - II</b></p>	<p><b>SOCIAL WORK CAMP:</b></p> <p>Rural/ Tribal camps with a duration of 7 - 10 days - provide opportunities to experience rural life, analyze rural dynamics, and observe the functioning of local self government and voluntary organisations. This experience aids peer participation in planning for activities for own group and those for local people. It also helps develop skills to carry out, evaluate, and report the experience.</p> <p><b>SUMMER PLACEMENT:</b></p> <p>Summer Placement - provides an opportunity to experience day-to-day work in a setting. The learner gets involved with direct practice with the client system and with the ongoing management operations of the setting. The time frame recommended for this experience is about three weeks, after the first year of the post-graduate programme. The learner may use the same setting for data collection of Term project.</p> <p>The student has to execute a term project during the summer placement and is expected to select a theme relevant to current social issues in consultation with the supervisor and make an exhaustive survey of literature on the chosen theme including empirical studies made on the same.</p>

		<p>Further, the student shall also collect the experiences or opinions of people on the issues and make a detailed presentation.</p> <p>Flexibility is accorded in planning and executing the term project. Creative and analytical approaches are to be carried out.</p>
	<b>SOCIAL WORK PRACTICUM - III</b>	<p>Concurrent practice learning of two-days a week - on going learning of practice is an opportunity to develop intervention skills in reality situations. This entails learning social work practice for two, or two and a half days or its equivalent, each week of the semester. The learners may be placed in agencies or in communities to initiate and participate in direct service delivery. Practice learning is a vital component of the educational opportunity to be provided to the learner. The teaching-learning process must be designed to help the learner to move on the mastering strategies, skills and techniques to practice social work.</p>
	<b>Soft-core:</b> <b>COMMUNICATION AND COUNSELING</b>	<ol style="list-style-type: none"> <li>a. Understand the meaning and importance of communication in day-to-day life.</li> <li>b. Focus on interpersonal communication of interviewing and allied aspects.</li> <li>c. Develop holistic understanding of counseling as a tool for help.</li> <li>d. Acquire knowledge of various approaches: their theoretical under-pinnings for goals, values, processes and techniques,</li> <li>e. Develop skills of application to real life situations.</li> </ol>
	<b>Soft-core:</b> <b>GANDHIAN APPROACH TO WELFARE AND DEVELOPMENT</b>	<ol style="list-style-type: none"> <li>a. Develop an understanding of Gandhi's concept of society and his approach to social transformation.</li> <li>b. Develop knowledge of the specific programmes formulated by Gandhi for rural reconstruction and the development of the weaker sections of society, with the focus on strategies and skills.</li> <li>c. Develop the ability to identify similarities and differences between the Gandhian and professional social work approaches to social change, welfare and development.</li> </ol>
	<b>Soft-core:</b> <b>PERSONAL AND PROFESSIONAL GROWTH.</b>	<ol style="list-style-type: none"> <li>a. Understand self as a being, as one in the process of becoming and experience self-awareness.</li> <li>b. Examine own values and attitudes and explore choices made to express self in own environment.</li> <li>c. Develop positive life skills and practice self-help methods for integration and for stress reduction.</li> <li>d. Understand and uphold professional values and ethics.</li> </ol>

	<p><b>Soft-core:</b></p> <p><b>POPULATION AND ENVIRONMENT</b></p>	<p>a. Understand characteristics, determinants of population growth.</p> <p>b. Examine population policy, plan and initiatives.</p> <p>c. Understand inter-relatedness of human life, living organisms and environment.</p> <p>d. Examine utilization and management of resources.</p> <p>e. Develop skills to participate in activities related to the two areas.</p>
	<p><b>Open elective :</b></p> <p><b>SOCIAL WORK PRACTICE WITH CHILDREN</b></p>	<p>a. To understand children facing difficult circumstances and the impact of difficult circumstances on children's development.</p> <p>b. To gain an overview of agencies where children form the major client group, and appropriate evaluation of children's problems.</p> <p>c. To impart to the trainee, specific social work intervention methods in dealing with children as a client group; to understand the Rights of children in the legal, national and international context.</p>
	<p><b>Open elective :</b></p> <p><b>SCIENCE OF CRIME, PENOLOGY AND SOCIAL WORK</b></p>	<p>a. To understand the concept of criminology and crime, as applicable to the Indian context with the impact of individual in conflict with law</p> <p>b. To learn the dimensions of penology, Indian prison system, the impact of imprisonment on the individuals and prison administration</p> <p>c. To understand the impact of crime on victims, compensation and hurdles in getting justice in the Indian context</p> <p>d. To assimilate the practice of social work interventions in crime prevention, promotion of social health, dealing with persons in conflict with law, Human Rights issues in the context of under - trials, imprisonment, rehabilitation of released prisoners and victims.</p>

## Department of Tourism and Hospitality Management - MTTM

### Programme Outcomes:

1. To Understand multi-form character of travel and tourism business.
- 2: Explain the diverse nature of tourism, including culture and place, global/local perspectives, and experience design and provision.
- 3: Apply relevant technology for the production and management of tourism experiences.
- 4: Plan, lead, organize and control resources for effective and efficient tourism operations.
- 5: Create, apply, and evaluate marketing strategies for tourism destinations and organizations.
- 6: Practice empathy and respect for diversity and multicultural perspectives.
- 7: Apply principles of sustainability to the practice of tourism in the local and global context
8. Propose and conduct a research project to inform tourism practice.
- 9: Assess, evaluate, and employ appropriate communication tools for discussions within and between teams and members, various audiences, decision-making teams, and corporate communication tasks.
- 10: Apply problem solving and critical analysis within diverse contexts.
- 11: Work collaboratively in groups, both as a leader and a team member, in diverse environments, learning from and contributing to the learning of others.

### Course Outcomes:

Semester	Subject	Outcomes
<b>I</b>	<b>Subject Name:</b>  Tourism Principles and Practices	1. To Understand the concept of tourism, its, growth, development, and motivations for travel.  2., To study the role of tourism as an economic intervention, global nature of tourism, tourism products and emerging trends in tourism industry.  3. To understand the managerial skill for tourism business environment.
	<b>Subject Name:</b>  Air Travel Management	1. To learn about the history of airline industry, the structure and dynamics of airline industry.  2. To learn the role and function of different organizations in Civil Aviation.  3. To understand about Aviation Safety, Baggage Rules, Piece and Weight Concept, special facilities available.

	<p><b>Subject Name:</b></p> <p>Marketing Management for Tourism</p>	<ol style="list-style-type: none"> <li>1. To Understand the theoretical and applied understanding of the tourism marketing.</li> <li>2. To learn about importance of tourist orientation and ways to reach tourists through proper marketing strategies.</li> <li>3. To emphasis on the tourism marketing mix and integrated strategies as applied in the contemporary times is the hallmark of the course.</li> </ol>
	<p><b>Subject Name:</b></p> <p>Communication Skills for Tourism</p>	<ol style="list-style-type: none"> <li>1. To familiarize with different methods of communication and the barriers of communication.</li> <li>2. To analyze the listening comprehension and identify the interpersonal problems in listening and feedback</li> <li>3. To learn about speaking skill through group Discussion and evaluation, Mock interview and also earn about telephoning skills/ telephone etiquette.</li> </ol>
	<p><b>Subject Name:</b></p> <p>Hospitality and Hotel Operations</p>	<ol style="list-style-type: none"> <li>1. To Understand the impart knowledge of hospitality /hotel operation and management</li> <li>2. To understand the front office, food and beverage and housekeeping aspects both theoretically and practically</li> <li>3. To impart a comprehensive idea about the operations of hotel, Resort and other catering out lets of a hotel.</li> </ol>
	<p><b>Subject Name:</b></p> <p>Tourism Geography</p>	<ol style="list-style-type: none"> <li>1. To Explore the basic components of geography in relation with tourism.</li> <li>2. To gain the Knowledge of geography shall also give an extra edge to the students in designing the itineraries for the Travelers.</li> <li>3. To understand the Climate and tourism and geographical resources for tourism.</li> </ol>
	<p><b>Subject Name:</b></p> <p>Study tour, project report and</p>	<p>The purpose is:</p> <ol style="list-style-type: none"> <li>1. To experience travel and to understand the linkages between tourism and other service sectors.</li> <li>2. To familiarize some of the important tourist</li> </ol>

	Viva voce	destinations in India or abroad. 3. To learn how to organize and manage tours.
<b>II</b>	<b>Subject Name:</b>  Organizational Behaviour	<b>1.</b> To understand the role of organizational behavior and its challenges & opportunities of organizational behavior in tourism industry. <b>2.</b> To learn about personality, Attitudes & Values, Psycho analytical social theory, Trait theories of personality and also learn about factors influencing attitude nature and dimension. <b>3.</b> To study about the organizational Development and Chang and the benefit of organizational development.
	<b>Subject Name:</b>  Tour Operations Management	1. To orient the students regarding the prevalent procedures and processing style in respect of Tour Operation business and its management.  2. It gives details regarding basic procedures adopted by Tour Operation in the specific fields and focuses on the prescribed requirements by the administrative machinery looking after specific aspects of tourism and allied activities.  3. To Understand the Tour Designing and Costing Techniques and factor affecting on it.
	<b>Subject Name:</b>  Travel Agency Management	1. To orient the students regarding the prevalent procedures and processing style in respect of Travel agency business and its management  2.To understand the Travel formalities and documentation stages for International Travel  3. To learn the Start up and set up the Travel agency and its Recognition process from various authorities.
	<b>Subject Name:</b>  Study tour, project report and Viva voce	The purpose is:  1. To experience travel and to understand the linkages between tourism and other service sectors.  2. To familiarize some of the important tourist destinations in India or abroad.  3. To learn how to organize and manage tours.
	<b>Subject Name:</b>  Airline Ticketing	1. The course aims to provide a systematic & extensive knowledge of aviation industry with basic knowledge of airlines ticketing and cargo handling.



		<p>2. It includes an introduction of air transport industry. It explains various codes, time calculation, types of journey and fare calculation.</p> <p>3.To understand the role of CRS and GDS system in Airline Ticketing.</p>
	<p><b>Subject Name:</b></p> <p>Destination Planning and Development</p>	<p>1. To help students to understand about tourism planning process, strategy, and policies</p> <p>2.To understand the importance of tourism planning and marketing at national level and understand problems relating to tourism and its development in India.</p> <p>3.To know the Institutional Support and role PPP in Destination Image creation and development.</p>
	<p><b>Subject Name:</b></p> <p>Travel and Tourism Management (<b>open elective</b>)</p>	<p><b>1.</b> To gain the Knowledge about Concept and component of the travel and tourism industry.</p> <p><b>2.</b> To Understand the Tourism impacts on Local and national economy.</p> <p><b>3.</b> To learn about the various travel formalities and documentation Process.</p>