



JAGRAN COLLEGE OF ARTS, SCIENCE & COMMERCE

A Self-Financing Post Graduate College Affiliated to CSJM University, Kanpur
620, W Block, Saket Nagar, Kanpur - 208014

CRITERION II

2.6 Student Performance and Learning Outcome

2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of POs and COs are evaluated



PRINCIPAL
Jagran College of
Arts, Science & Commerce
Saket Nagar, Kanpur



JAGRAN COLLEGE OF ARTS, SCIENCE & COMMERCE

(Self Financing Co-Ed English Medium Post Graduate College Affiliated to CSJM University, Kanpur)

620-W, Block, Saket Nagar, Kanpur – 208014

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PROGRAMME OUTCOMES (POs), & COURSE OUTCOMES (COs)

S. No.	DEPARTMENT
1.	BACHELOR OF COMMERCE (B.Com.)
2.	MASTER OF COMMERCE (M.Com.)
3.	BACHELOR OF BUSINESS ADMINISTRATION (BBA)
4.	BACHELOR OF COMPUTER APPLICATION (BCA)
5.	BACHELOR OF ARTS (BA-HISTORY)
6.	BACHELOR OF ARTS (BA-ENGLISH)
7.	BACHELOR OF ARTS (BA-ECONOMICS)
8.	BACHELOR OF ARTS (BA-HINDI)
9.	BACHELOR OF ARTS (BA-SOCIOLOGY)
10.	BACHELOR OF ARTS (BA-PSYCHOLOGY)
11.	BACHELOR OF ARTS (BA-DRAWING AND PAINTING)
12.	BACHELOR OF ARTS (BA-POLITICAL SCIENCE)
13.	BACHELOR OF ARTS (BA-MUSIC VOCAL)
14.	BACHELOR OF SCIENCE (B.Sc.-PHYSICS)
15.	BACHELOR OF SCIENCE (B.Sc.-CHEMISTRY)
16.	BACHELOR OF SCIENCE (B.Sc.-MATHEMATICS)
17.	BACHELOR OF SCIENCE (B.Sc.-ZOOLOGY)
18.	BACHELOR OF SCIENCE (B.Sc.-BOTANY)
19.	BACHELOR OF COMMERCE HONOURS (B.Com.-H)
VOCATIONAL PAPERS	
1.	MEDIA REPORTING AND EDITING
2.	POSITIVE PSYCHOLOGY AND COUNSELLING
3.	ADVERTISING
4.	BASICS OF 3D ANIMATION
5.	OFFICE AUTOMATION USING MS OFFICE
6.	PHYSICAL EDUCATION AND SPORTS

Degree in Bachelor of Commerce

PROGRAMME OUTCOMES (POs)

The career options for students pursuing B.Com. Programme is vast and candidates will always have interesting profiles to work at if they play to their strengths. While many B.Com. Graduates may choose the much tried and tested path of CA, CS, CMA and other related fields of study, one has ample opportunity to choose an out-of-the-box career option, as one in travel and hospitality, media and telecommunications depending on the path and degree one chooses.

PO1. Ability to apply basic Business Organization principles to solve business and industry related problems. Ability to understand the concept of Sole Proprietorship, Partnership and Joint Stock Company etc

PO2. The purpose of this paper is to inculcate and analytical ability among the students

PO3. To acquires skills in reading, writing, comprehension and communication, and also to use electronic media for business communication.

PO4. The objective of this course is to provide basic knowledge of computer, DBMS, data base language and word processing.

PO5. Ability to understand the concept of Business Management along with the basic laws and norms of Business Management.

PO6. The purpose of this paper is to provide knowledge of accounting with Computer.

PO7. This course is to familiarize the student with the basics of ecommerce and to comprehend its potential.

PO8. Business Economics objective this course is meant to acquaint the students with the principles of Business Economics as are applicable business.

PO9. The objective of this course is to provide basic knowledge of the provisions of the Companies Act 2013 along with relevant cases.

PO10. The objective of this course is to provide a brief idea about the framework of Indian Contract Act, 1872 and Sale of Goods Act, 1930.

PO11. Ability to understand the concept of Inventory Management along with the basic laws and axioms of Inventory Management. Ability to apply basic Inventory management principles to solve business and industry related problems.

PO12. It enables the students to know the basics of Income Tax Act and its implications.

PO13. The objective of this course is to provide basic knowledge concepts, principles, tools and techniques of marketing.

PO14.Ability to understand the concept of Budgetary Control, Cash Flow Statement, Fund Flow Statement, Break Even Analysis etc.

PO15.To analyses the financial position and predict future business decisions

PO16.Better planning and control of projects, resulting in more successful projects within the organization.

PO16.This course teaches students how to think as managers and actively manage organizations and team using effective practices around planning, decision making, organizational structure, culture, leadership, motivation and communication.

PO17.The student will be able to demonstrate and understand of the overall role and importance of the finance function. Demonstrate basic finance management knowledge. Communicate effectively using standard business terminology.

PO18.It helps to increase demand and economic activities. The individuals can use different instruments.

PO19. Identify the scope of marketing covering different functions of a marketing manager. Identify ethical and legal implications of marketing decisions.

PO20.Classify strategies for entering export markets from extant knowledge and research. Apply core theoretical concepts in international marketing to find practical solution to constraints of small business.

COURSE OUTCOMES

Year: First		Semester: First
Paper-1		
Course Title: Business Organization		
Course Code: C010101T Credit: 06		
CO1	After completing this course a student will have the ability to understand the concept of Business Organization along with the basic laws and norms of Business Organization.	
CO2	Ability to understand the terminologies associated with the field of Business Organization along with their relevance.	
CO3	Ability to identify the appropriate types and functioning of Business Organization for solving different problems.	
CO4	Ability to apply basic Business Organization principles to solve business and industry related problems.	
CO5	Ability to understand the concept of Sole Proprietorship, Partnership and Joint Stock Company etc	
Year: First		Semester: First
Paper-2		
Course Title: Business Statistics		
Course Code: C010102T Credit: 06		
CO1	The purpose of this paper is to inculcate and analytical ability among the students	
CO2	This concept aims to assist businesses in making data-driven decisions to improve business outcomes.	

Year: First		Semester: First
Paper-3		
Course Title: Business Communication		
Course Code: C010103T Credit: 06		
CO1	To acquire skills in reading, writing, comprehension and communication, and also to use electronic media for business communication	
CO2	To maintain credibility, forge a relationship between employer and employees, maintain professionalism, avoid ambiguity, educate and enlighten.	
Year: First		Semester: First
Paper-4		
Course Title: Introduction to Computer Application		
Course Code: C010104T Credit: 06		
CO1	Identify and discuss the four main functions of computer hardware: input, processing, output, and storage.	
CO2	Identify and describe major hardware components.	
CO3	Identify, describe and use communications and networking terminology and technology to include Internet operations and its uses. This course is to provide basic knowledge of computer, DBMS, data base language and word processing.	
Year: First		Semester: Second
Paper-1		
Course Title: Business Management		
Course Code: C010201T Credit: 06		
CO1	Ability to understand the concept of Business Management along with the basic laws and norms of Business Management.	
CO2	Ability to understand the terminologies associated with the field of Business Management and control along with their relevance.	
CO3	Ability to identify the appropriate method and techniques of Business Management for solving different problems.	
CO4	Ability to apply basic Business Management principles to solve business and industry related problems.	
CO5	Ability to understand the concept of Planning, Organizing, Direction, Motivation and Control etc	
Year: First		Semester: Second
Paper-2		
Course Title: Financial Accounting		
Course Code: C010202T Credit: 04		
CO1	Ability to analyze and interpret financial statements.	
CO2	Proficiency in preparing financial reports for different stakeholders.	
CO3	Effective communication of financial information to stakeholders.	
CO4	Knowledge of International accounting standards and their application.	
CO5	Ethical awareness and professional conduct in accounting practices.	
Year: First		Semester: Second
Paper-3		
Course Title: Computerized Accounting (Practical)		
Course Code: C010203P Credit: 02		
CO1	To provide knowledge of accounting with Computer.	
CO2	Critical thinking and problem-solving skills in financial reporting and analysis.	

CO3	Competence in using accounting software and tools.
CO4	Knowledge of International accounting standards and their application.
CO5	Facility to study and understand financial statements.
Year: First	
Semester: Second	
Paper-4	
Course Title: Essentials of E-Commerce	
Course Code: C010204T Credit: 06	
CO1	To familiarize the student with the basics of ecommerce and to comprehend its potential.
CO2	To helps the organization to provide better customer services.
CO3	To facilitate the based on the information by digitizing the information.
CO4	E-Commerce improves the brand image of the company.

Year: First	
Semester: Second	
Paper-5	
Course Title: Business Economics	
Course Code: C010205T Credit: 06	
CO1	To acquaint the students with the principles of Business Economics as are applicable business.
CO2	To include future prediction, recognition, and clarification of business issues, drafting business policies, and establishing relations between different economic aspects.

DIPLOMA IN COMMERCE

Year: Second	
Semester: Third	
Paper-1	
Course Title: Company Law	
Course Code: C010301T Credit: 06	
CO1	The objective of this course is to provide basic knowledge of the provisions of the Companies Act 2013 along with relevant cases.
CO2	To analyze the business honesty in company promotion and management.
CO3	A minimum standard of good behavior and business honesty in company promotion and management.
Year: Second	
Semester: Third	
Paper-2	
Course Title: Cost Accounting	
Course Code: C010302T Credit: 06	
CO1	To the basic concepts and the tools used in cost accounting.
CO2	It refers to the classifying, recording and appropriate allocation of expenditure for the purpose of determining the costs of products or services.
CO3	It also helps in the presentation of arranged data for the control purposes and guidance to the management.
Year: Second	
Semester: Third	
Paper-3 (Optional)	
Course Title: Business Regulatory Framework	
Course Code: C010303T Credit: 06	

CO1	To provide a brief idea about the framework of Indian Contract Act,1872 and Sale of Goods Act,1930.
CO2	To knowledge of the Legal framework is an important constituent of the business and corporate environment. No corporate entity can effectively work and survive without meeting legal obligations.

Year: Second		Semester: Third
Paper-4 (Optional)		
Course Title: Inventory Management		
Course Code: C010304T Credit: 06		
CO1	Ability to understand the concept of Inventory Management along with the basic laws and axioms of Inventory Management.	
CO2	Ability to understand the terminologies associated with the field of Inventory management and control along with their relevance.	
CO3	Ability to identify the appropriate method and techniques of Inventory management for solving different problems.	
CO4	Ability to apply basic Inventory management principles to solve business and industry related problems.	
CO5	Ability to understand the concept of Working Capital Management, Demand Analysis obsolescence.	
Year: Second		Semester: Fourth
Paper-1		
Course Title: Income Tax Law and Accounts		
Course Code: C010401T Credit: 06		
CO1	It enables the students to know the basics of Income Tax Act and its implications	
CO2	The main objectives to understand the Income Tax Act are promoting price stability, full employment, and economic development, reduction of BOP difficulties, controlling cyclical fluctuations and non-revenue objectives.29 May 2023.	
Year: Second		Semester: Fourth
Paper-2		
Course Title: Fundamentals of Marketing		
Course Code: C010402T Credit: 04		
CO1	Is to provide basic knowledge concepts, principles, tools and techniques of marketing.	
CO2	The objective to analyze basic purpose of marketing management is to achieve the objectives of the business.	
CO3	A business aims at earning reasonable profits by satisfying the needs of customers.	

Year: Second		Semester: Fourth
Paper-3		
Course Title: Digital Marketing (Practical)		
Course Code: C010403P		Credit: 02
CO1	Ability to understand the concept of Digital Marketing along with the basic forms and norms of Digital Marketing.	
CO2	Ability to understand the terminologies associated with the field of Digital Marketing and control along with their relevance.	
CO3	Ability to identify the appropriate method and techniques of Digital Marketing for solving different problems.	
CO4	Ability to apply basic Digital Marketing principles to solve business and industry related issues and problems.	
CO5	Ability to understand the concept of Budgetary Control, Cash Flow Statement, Fund Flow Statement, Break Even Analysis etc.	
Year: Second		Semester: Fourth
Paper-4 (Optional)		
Course Title: Fundamental of Entrepreneurship		
Course Code: C010404T		Credit: 06
CO1	Ability to understand the concept of Entrepreneurship along with the basic laws and practices of Entrepreneurship.	
CO2	Ability to understand the terminologies associated with the field of Entrepreneurship along with their relevance.	
CO3	Ability to identify the appropriate functions and qualities of Entrepreneur for solving different problems.	
CO4	Ability to apply basic Entrepreneurship principles to solve business and industry related problems.	
CO5	Ability to understand the concept of Life Small Business, Raising of Funds and EDP.	
Year: Second		Semester: Fourth
Paper-5 (Optional)		
Course Title: Tourism and Travel Management		
Course Code: C010405T		Credit: 06
CO1	To understand the fundamental concept of Tourism and to familiarize with the significance and emerging trends in tourism.	
CO2	Functions of- United Nations World Tourism Organization (UNWTO), World Travel and Tourism Council (WTC), Pacific Asia Travel Association (PATA), International Air Transport Association (IATA), Travel Agents Association of India (TAAI), Indian Association of Tour Operators (IATO) and Federation of Hotel and Restaurant Associations of India (FHRAI).	

DEGREE IN COMMERCE

Year: Three		Semester: Fifth
Paper-1		
Course Title: Cooperate Accounting		
Course Code: C010501T		Credit: 05
CO1	This enables the student to develop awareness about corporate accounting in conformity with the provisions of company act.	

CO2	Accounting For Amalgamation of Companies As Per Indian Accounting Standard 14.
Year: Three Semester: Fifth	
Paper-2	
Course Title: Goods and Services Tax	
Course Code: C010502T Credit: 05	
CO1	To provide the working knowledge of principles and provisions of GST to understand the relevance of GST in the present Indian tax in scenario and its contribution for economic development.
Year: Three Semester: Fifth	
Paper-3 (Optional)	
Course Title: Business Finance	
Course Code: C010503T Credit: 05	
CO1	This helps to understand the conceptual framework of Business Finance.
CO2	Capital Budgeting: Meaning Nature And Importance Investment Decisions Are Its Major Evaluation Criteria.
CO3	Sources of Funds: Long Term Funds, Short Term Funds, Nature Significance And Determinants Of Working Capital.
CO4	Indian Money Markets Composition And Structure.
Year: Three Semester: Fifth	
Paper-4 (Optional)	
Course Title: Principles and Practices of Insurance	
Course Code: C010504T Credit: 05	
CO1	Ability to understand the concept of Insurance along with the basic laws and practices of Insurance.
CO2	Ability to understand the terminologies associated with the field of Insurance and control along with their relevance.
CO3	Ability to identify the appropriate method and types of Insurance for solving different problems.
CO4	Ability to apply basic Insurance principles to solve business and industry related problems.
CO5	Ability to understand the concept of Life, Marine and Fire Insurance.

Year: Three		Semester: Fifth
Paper-5(Optional)		
Course Title: Monetary Theory and Banking in India		
Course Code: C010505T		Credit: 05
CO1	To study the working for money and financial system prevailing in India.	
CO2	To study the Indian Banking System.	
CO3	To study the Development Banks And Other Non-Banking Financial Institution	
Year: Three		Semester: Sixth
Paper-1		
Course Title: Accounting for Managers		
Course Code: C010601T		Credit: 05
CO1	Ability to understand the concept of Managerial Accounting along with the basic forms and norms of Managerial Accounting.	
CO2	Ability to understand the terminologies associated with the field of Managerial Accounting and control along with their relevance.	
CO3	Ability to identify the appropriate method and techniques of Managerial Accounting for solving different problems.	
CO4	Ability to apply basic Managerial Accounting principles to solve business and industry related issues and problems	
CO5	Ability to understand the concept of Budgetary Control, Cash Flow Statement, Fund Flow Statement, Break Even Analysis etc.	
Year: Three		Semester: Fifth
Paper-2		
Course Title: Auditing		
Course Code: C010602T		Credit: 05
CO1	To analyses the financial position and predict future business decisions.	
CO2	At imparting knowledge about the principles and methods of auditing and their applications.	
CO3	Articulate knowledge of fundamental audit concepts. Apply critical thinking skills and solve auditing problems through the use of auditing.	
CO4	Assurance standards and the Code of ethics for professional Accountants.	
Year: Three		Semester: Fifth
Paper-3		
Course Title: Comprehensive Viva		
Course Code: C010603R		Credit: 05
CO1	Able to demonstrate the application of the knowledge acquired to solve the problems of the various forms Organization/Institutions.	
CO2	Understand the practical difficulties in applying the various forms of solutions to find the feasible solution.	
CO3	Solve the real life problems and assess the implications of various forms of solutions.	
CO4	Able to make effective presentation f different topics learnt before the expert problem.	

Year: Three		Semester: Fifth
Paper-4 (Optional)		
Course Title: Financial Institutions and Market		
Course Code: C010604T		Credit: 05
CO1	Ability to understand the concept of Financial Market along with the basic forms and norms of Financial Market.	
CO2	Ability to understand the terminologies associated with the field of Financial Market and control along with their relevance.	
CO3	Ability to identify the appropriate method and techniques of Financial Market for solving different problems.	
CO4	Ability to apply basic Financial Market principles to solve business and industry related problems.	
CO5	Ability to understand the concept of Primary and Secondary Market, Stock Exchange, SEBI etc.	
Year: Three		Semester: Fifth
Paper-5 (Optional)		
Course Title: Human Resource Management		
Course Code: C010605T		Credit: 05
CO1	The aims to develop in the students a proper understanding about human resource management.	
CO2	Recruitment & Selection.	
CO3	Employee Compensation, Performance Appraisal.	
CO4	Employee Welfare: Various welfare schemes & Safety Measures.	
Year: Three		Semester: Fifth
Paper- 6 (Optional)		
Course Title: Business Ethics and Cooperate Governance		
Course Code: C010606T		Credit: 05
CO1	To provide knowledge about the concepts, tools, techniques, and relevance of Business Ethics and Corporate Governance in the present changing scenario.	
CO2	Law and Ethics – Relationship between Law and Ethics.	
CO3	Corporate social responsibility.	

Degree in Master of Commerce

PROGRAMME OUTCOMES (POs)

Program outcomes for a postgraduate degree in commerce generally focus on developing advanced knowledge and skills in areas such as accounting, finance, economics, marketing, and management. These outcomes prepare graduates for a range of advanced careers in commerce and related fields, offering them the tools needed to succeed in increasingly complex and dynamic business environments. Specific outcomes vary by program and institution, but here are some typical outcomes that you might expect:

PO1. Advanced Knowledge and Expertise: Graduates will have a deep understanding of core commerce disciplines, including finance, accounting, marketing, and management. They will also be familiar with the latest trends and challenges in the global business environment.

PO2. Critical Thinking and Analytical Skills: Students will develop strong analytical skills, learning how to interpret, evaluate, and use complex financial and business data to make informed decisions and solve problems.

PO3. Research Skills: Graduates will be capable of conducting independent research using various methodologies, enabling them to analyze business issues rigorously.

PO4. Strategic Thinking*: Students will learn to formulate, implement, and evaluate business strategies to drive organizational success and adapt to changing market conditions.

PO5. Leadership and Management Skills: The program will equip students with the leadership qualities necessary to manage teams, projects, and organizations effectively. This includes understanding organizational behavior, human resource management, and ethical leadership.

PO6. Ethical Awareness and Responsibility: Graduates will understand the ethical implications of business decisions and the importance of corporate social responsibility in building sustainable businesses.

PO7. Communication Skills: Enhanced ability to communicate effectively in business settings, including writing reports, delivering presentations, and negotiating.

PO8. Global Perspective: Students will gain insights into global economic and business trends, understanding how international markets operate and how global factors influence local businesses.

PO9. Entrepreneurial Skills: Some programs may also focus on entrepreneurship, preparing graduates to start, manage, and grow their own businesses.

PO10. Professional Preparedness: Graduates will be ready to enter professional roles in various sectors such as banking, consulting, government, and non-profits, equipped with the skills to excel in their chosen fields.

Course Outcomes

Year: First		Semester: First
Paper-1 Type : Core		
Course Title: Organizational Behaviour		
Course Code: C010701T Credit: 05		
CO1	To make the familiar with the basics of organizational behaviour and make them understand the importance of groups and leadership etc.	
CO2	The aims to develop in the student the ability to run a business house more efficiently in a situation of stress.	
Year: First		Semester: First
Paper-2 Type : Core		
Course Title: Accounting and Managerial Decisions		
Course Code: C010702T Credit: 05		
CO1	This to depict the applied aspect of accounting and also to enable them to analyze and use the accounting information for decision making.	
CO2	The aim of the course is to enhance the ability of the manager in taking effective business decisions also.	
Year: First		Semester: First
Paper-3 Type : Core		
Course Title: Statistical Analysis		
Course Code: C010703T Credit: 05		
CO1	To enable to understand the basic concepts of statistical tools and techniques and to develop in them the ability to apply these tools and techniques for managerial decision making and also to work as good researcher.	
Year: First		Semester: First
Paper-3 Type : Core		
Course Title: Managerial Economics		
Course Code: C010704T Credit: 05		
CO1	The course aims to make the students aware of various economic issues, tools and techniques of economic analysis required.	
CO2	To enhance the decision-making skills while working in a corporate sector.	

Year: First		Semester: Second
Paper-1 Type : Core		
Course Title: Financial Management		
Course Code: C010801T Credit: 05		
CO1	The objective to enable and to understand the basic principles tools and techniques of financial management of a company.	
CO2	To enhance their ability to make sound financial decisions and policies.	
Year: First		Semester: Second
Paper-2 Type : Core		

Course Title: Marketing Management	
Course Code: C010802T Credit: 05	
CO1	The objective is to understand basic concepts and principles of marketing and to develop their conceptual and analytical skills required.
CO2	To manage marketing operations of a business enterprise efficiently.
Year: First	
Semester: Second	
Paper-3 Type : Core	
Course Title: Human Resource Management	
Course Code: C010803T Credit: 05	
CO1	To develop the broad perspective on themes and issues of human resource management along with their relevance and application in the Indian prospective.
CO2	The aims to develop relevant skills required to handle HR related issues.
Year: First	
Semester: Second	
Paper-3 Type : Elective	
<u>Group A: ACCOUNTING AND FINANCE</u>	
Course Title: Advance Corporate Accounting and Reporting	
Course Code: C010804T Credit: 05	
CO1	To focuses on the study of accounting required to understand financial position of the corporate enterprise and understand the statutory requirements so as to manage the enterprise efficiently.
Year: First	
Semester: Second	
Paper-3 Type : Elective	
<u>Group B: MARKETING</u>	
Course Title: Consumer Behavior and Marketing Research	
Course Code: C010805T Credit: 05	
CO1	The objective is to make and understand the complexities of consumers' needs and perceptions and to develop in them the ability to formulate effective marketing strategies. The course also aims to provide knowledge of marketing research.

Year: First	
Semester: Second	
Paper-3 Type : Elective	
<u>Group C: HUMAN RESOURCE MANAGMENT</u>	
Course Title: Talent Management	
Course Code: C010806T Credit: 05	
CO1	The aims to enhance the learning process and to manage and upgrade the skill set of high potential employees, to retain them for a long run and achieve the desired goals of the organization.
CO2	It is designed for developing a sound integrated talent management plan that not only aids individual employee's growth but also the growth of the company as a whole.

Year: First		Semester: Second
Paper-4 Type : Project		
Course Title: Research Project		
Course Code: C010807R Credit: 08		
CO1	Research project can be done in form of Internship/Survey/Field work/Research project/ Industrial training, and a report/dissertation.	
CO2	Students should complete Internship/Survey/Field work/Research project/ Industrial training, and a report/dissertation and shall be submitted and that shall be evaluated via seminar/presentation and viva voce.	
Year: First		Semester: Second
Paper- Type : Minor Elective		
Course Title: Agricultural Economics		
Course Code: Credit: 04/05/06		
CO1	To understand the introduction of native and scope of agricultural economics and also understand the agriculture in economic development.	
CO2	Provide proper information about the theories of agriculture development .Production function in agriculture economics of farm size and capital formation in agriculture.	

Year: Second		Semester: Third
Paper-1 Type : Core		
Course Title: Business Research Methodology		
Course Code: C010901T Credit: 05		
CO1	To develop in-depth knowledge of the methodology appropriate for conducting research in business.	
CO2	It includes a review of the scientific method and its application to the business research process, data preparation, analysis and presentation of the research output (written and oral) making accurate decisions.	
CO3	The three broad objectives namely, to help the students appreciate the need of having a well- structured method in carrying out research investigations, provide them a thorough understanding of the research process, and familiarize them with the major tools and techniques in carrying out research investigations.	
Year: Second		Semester: Third
Paper-2 Type : Core		
Course Title: Strategic Management		
Course Code: C010902T Credit: 05		
CO1	It concerned with both the determination of strategic direction and the management of the strategic process.	
CO2	It deals with the analytical, behavioural, and creative aspects of business simultaneously.	
CO3	The perspective is to make and aware about the key tasks involved including detection and adaptation to environmental change; the procurement and allocation of resources; the integration of activities across subparts of the organizations; and, at the most senior levels, the determination of purpose and the setting of corporate directions.	
CO4	The content will enhance the basic understanding of the nature and dynamics of the strategy formulation and implementation processes.	

Year: Second		Semester: Third
Paper-3 Type : Elective		
<u>Group A: ACCOUNTING AND FINANCE</u>		
Course Title: Indian Financial System and Financial Services		
Course Code: C010903T Credit: 05		
CO1	This course is designed to develop a knowledge about the financial system and functioning of financial sub-systems comprising of financial markets, financial instruments, financial intermediaries, financial services and regulatory authorities.	
CO2	Moreover, the able to understand the core financial services, prudential norms, new technologies and the latest transformation or reforms in mobilizing funds in economy.	

Year: Second		Semester: Third
Paper-3 Type : Elective		
<u>Group B: MARKETING</u>		
Course Title: Marketing of Services and Retail Management		
Course Code: C010904T Credit: 05		
CO1	The aim of the course is to give students abroad foundation in Service Marketing and Retail Management.	
CO2	This course relates to study of decisions that strikes to trade-off between risk and returns, efficiency and effectiveness.	
CO3	The economies of the world are now dominated by services. Furthermore, manufacturing companies recognize the potential of services as one of the few sustainable competitive advantages they can develop.	
CO4	The focuses on the customers, listening to customer requirements and developing customer-defined services standards, aligning strategy and service design, delivering and performing service and managing service promises.	

Year: Second		Semester: Third
Paper-3 Type : Elective		
<u>Group C: HUMAN RESOURCE</u>		
Course Title: Organization Development and Change Management		
Course Code: C010905T Credit: 05		
CO1	To motivate and gain knowledge and leadership skills needed to help organizations chart a successful course through change, understand the role leadership plays in anticipating, planning and navigating organizational change.	
CO2	The aims to make students gain foundational knowledge for making managerial decisions based on business data.	
Year: Second		Semester: Third
Paper-3 Type : Elective		
<u>Group A: ACCOUNTING AND FINANCE</u>		

Course Title: Corporate Tax Planning and Management	
Course Code: C010906T Credit: 05	
CO1	The objective of the course is to familiarize with the corporate tax law of India and to develop in them the ability to take sound financial decisions in the interest of the company taking advantage of tax concessions & reliefs etc.

Year: Second **Semester: Third**
Paper-3 Type : Elective

Group B: MARKETING

Course Title: Logistics and Supply Chain Management
Course Code: C010907T Credit: 05

CO1	The objective is to make acquainted with the concepts and tools of supply chain management and trade logistics relevant for a business enterprise.
CO2	The course is designed to develop understanding of Performance Measurement and Relationship Marketing etc.

Year: Second **Semester: Third**
Paper-3 Type : Elective

Group C: HUMAN RESOURCE

Course Title: Industrial Relations and Labour Legislation
Course Code: C010908T Credit: 05

CO1	The objective of the course is to provide conceptual framework of Industrial Relations and Indian Labour legislation and to give an insight of the reforms in industrial relations in India.
CO2	The course aims to make students aware of existing framework of harmonious Industrial Relation, discipline and collective bargaining mechanism.

Year: Second **Semester: Fourth**
Paper-1 Type : Core

Course Title: Project Management and Planning
Course Code: C011001T Credit: 05

CO1	The course is designed to provide an understanding of different types of projects and the total approach for project management with a view to understand the reasons for project failures and to familiarize students with recent advances in project management tools and techniques including computers.
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Year: Second **Semester: Fourth**
Paper-2 Type : Elective

Group A: ACCOUNTING AND FINANCE

Course Title: Management Information System
Course Code: C011002T Credit: 05

CO1	The purpose is to build and understand basic concept of information and its relevance in business environment so as to develop proficiency in solving business problems using personal productivity tools.
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CO2	The aims to equip with art of presenting information before management for decision making.
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Year: Second		Semester: Fourth
Paper-3 Type : Elective		
<u>Group B: MARKETING</u>		
Course Title: Customer Relationship Management		
Course Code: C011003T Credit: 05		
CO1	The aim of the course is to provide understanding of comprehensive marketing strategy to improve marketing productivity which can be achieved by increasing marketing efficiency and enhancing marketing effectiveness through a process of acquiring, retaining and partnering with selective customers to create superior mutual value for the organization.	

Year: Second		Semester: Fourth
Paper-4 Type : Elective		
<u>Group C: HUMAN RESOURCE</u>		
Course Title: Training and Development		
Course Code: C011004T Credit: 05		
CO1	The course is designed to enable the students to gain information on training practices in relation to organizational development and to develop skills necessary to analyze, design, develop, conduct, and evaluate training programs and their success.	

Year: Second		Semester: Fourth
Paper-5 Type : Elective		
<u>Group A: ACCOUNTING AND FINANCE</u>		
Course Title: International Financial System and Management		
Course Code: C011005T Credit: 05		
CO1	This course is concerned with the financial management of the firms that operate in the increasingly globalized business environment.	
CO2	Emphasizing broad concepts and real-world practices rather than extensive quantitative material, the course offers a concise introduction to international finance and provides a clear, conceptual framework for analyzing key financial decisions in multinational firms.	
CO3	The approach of the course is to enable students to understand international financial management as a natural and logical extension of the principles learned in the introductory financial management course.	

Year: Second		Semester: Fourth
Paper-6 Type : Elective		
<u>Group B: MARKETING</u>		
Course Title: Digital Marketing and E-Commerce		
Course Code: C011006T Credit: 05		
CO1	To understand digital and social media marketing practices to acquire and enhance customer engagement.	
CO2	The able to develop latest digital practices for marketing and promotion.	

Year: Second		Semester: Fourth
Paper-7 Type : Elective		
<u>Group C: HUMAN RESOURCE</u>		
Course Title: Conflict Resolution and Strategic Negotiation		
Course Code: C011007T Credit: 05		
CO1	To design to make and understand different types of conflict at workplace and have an insight as to how to recognize the positive and negative impacts and outcomes of resolved and unresolved conflict, The course also aims to enhance the understanding of strategic negotiations.	

Year: Second		Semester: Fourth
Paper-8 Type : Elective		
<u>Group A: ACCOUNTING AND FINANCE</u>		
Course Title: Security Analysis and Portfolio Management		
Course Code: C011008T Credit: 05		
CO1	The course is designed to enforce student's knowledge and understanding of the security analysis and portfolio management process. Focus is to develop understanding of Investments (objectives and constraints), secondary market operations, selection of financial instruments, portfolio formulation, monitoring evaluation techniques.	
CO2	The valuation of equity and interest-bearing instruments provides an insight for decision making required to achieve the core objective of business.	

Year: Second		Semester: Fourth
Paper-9 Type : Elective		
<u>Group B: MARKETING</u>		
Course Title: International Marketing		
Course Code: C011009T Credit: 05		
CO1	The objective of the course is to familiarize with the conceptual framework, policies	

	and procedures of international marketing.
CO2	It also aims to provide an exposure of the environmental dynamics of International business to the students so as to enable them to develop international marketing strategies.

Year: Second		Semester: Fourth
Paper-10 Type : Elective		
<u>Group C: HUMAN RESOURCE</u>		
Course Title: Performance and Compensation Management		
Course Code: C011010T Credit: 05		
CO1	The objective of the course is to familiarize students about concepts of performance and compensation management and how to use them to face the challenges of attracting, retaining and motivating employees towards higher performance.	

Year: Second		Semester: Fourth
Paper-11 Type : Project		
Course Title: Research Project		
Course Code: C011011R Credit: 08		
CO1	Students will complete their projects in form of Survey/Field work/Research project and a report/dissertation and shall be submitted and that shall be evaluated via seminar/presentation and viva voce.	

Degree in Bachelor of Business Administration

PROGRAMME OUTCOMES (POs)

Bachelor of business administration (BBA) is a three-year program that provides a concrete foundation in all aspects of business, including management, economics, communication, accounting, marketing etc.

PO1. To provide knowledge about business economics. To provide knowledge about demand analysis. To Determine Production and cost analysis. To make aware with pricing and profit management.

PO2. To Introduce about Accounting Principles and other aspects of accounting. To provide knowledge about rectification of errors. To make able about valuation of stocks

PO3. To provides knowledge about basic concepts of Statistics. To provide knowledge measurement of central tendency. To give an overview of correlation and regression analysis.

PO4. To provides knowledge about management and its principles.

PO5. To develops understanding of business ethics and values. To provide relationship between ethics and corporate excellence. To give an overview about Gandhian philosophy and social responsibility.

PO6. To provides knowledge about computer and its application. To provide knowledge about components and working on computer.

PO7. To provides knowledge about Organizational Behavior. To provide knowledge about individual and group behavior.

PO8. To provides knowledge about business finance and investment decisions. To provide knowledge about financing and dividend decision.

PO9. To provides knowledge about HRD concepts and other aspects and potential appraisal.

PO10. To provides knowledge about Marketing Theory and Practices.

PO11. The course seeks to give detailed knowledge about the subject matter by instilling them basic ideas about Business Mathematics.

PO12. To provides knowledge about advertisement and its use in business. To make able about advertisement concept and its management.

PO13. Students understands how cost is charged to particular product or service CO2: Students learn to identify and evaluate difference between Actual and Targeted Cost. Students understand management decision making.

PO14.To gain knowledge of the branches of law which relate to business transactions, certain corporate bodies and related matters. Also to understand the applications of these laws to practical commercial situations.

PO15. Gaining knowledge about managing production processes. How to run operations effectively. Better understanding of modern production techniques.

PO16. Critically analyzes the internal and external environments in which businesses operate and assess their significance for strategic planning.

PO17. To understands and appreciates the process of communication as an important constituent of the professional effectiveness. To understand oneself and improve interpersonal skills.

PO18. Identify and evaluate the complexities of business environment and their impact on the business. Analyze the relationships between Government and business and understand the political, economic, legal and social policies of the country.

PO19. Understand the foundational role of logistics as it relates to transportation and warehousing.

PO20. Understanding the nature of problem to be studied and identifying the related area of knowledge. Reviewing literature to understand how others have approached or dealt with the problem.

PO21. Demonstrate the ability to utilize the accounting cycle to record transactions, process information and prepare financial statements for a business.

PO22. To analyzes the effects of psychological, socio-cultural and demographic factors on the consumer decision process with their results. Able to distinguish the relationship between consumer behavior and marketing practices.

PO23. Measure the risk and return of a stock or a portfolio position. Diversify and manage investment portfolios in accordance with a person's risk Preferences. Understand and evaluate investment advice from brokers and the financial press.

PO24. Students will be able to put together quantitative reports as well as to evaluate reports put together by others.

PO25. To demonstrates knowledge of the legal and ethical environment impacting business organizations and exhibit an understanding and appreciation of the ethical implications of decisions.

PO26. Students should be able to determine product cost, formulate budgets and standards for planning and control. Understand the role of responsibility, accounting and performance measurement and explain contemporary thinking in management accounting.

PO27. Students should be able to elaborate the concept of industrial relations. They should outline the important causes and impact of industrial disputes.

PO28. To inverse in basic computer terminology formulate opinions about the impact of computers on society. To enable the students to learn the concepts of indirect tax and GST from the pre GST period to the post GST period. Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles

PO29. Demonstrate mastery of core ecological and physical science concepts and methods as they pertain to environmental problem- solving. Articulate knowledge of fundamental audit concepts. Apply critical thinking skills and solve auditing problems through the use of case studies. The student should be able to know the fundamental principles of e business and e commerce.

PO30. Explain the comparative advantage theory and the supply and demand models on the basis of analysis of international trade theory..Understand how to apply the model in an organisation, reorganize and understand common strategic planning terminology.

BACHELOR OF BUSINESS ADMINISTRATION

COURSE OUTCOMES

BBA- First Year Semester- First

Subject	Part	Paper Code	Paper Name & Credits =3(All)
Course/ Paper-1	A	F010101T	<u>Business Economics:-</u> <ul style="list-style-type: none"> • To provide knowledge about business economics. • To provide knowledge about demand analysis. • To Determine Production and cost analysis. • To make aware with pricing and profit management.
	B		<u>Basic Accounting:-</u> <ul style="list-style-type: none"> • To Introduce about Accounting Principles and other aspects of accounting. • To provide knowledge about rectification of errors. • To make able about valuation of stocks.

			<ul style="list-style-type: none"> To make aware with share and Debenture.
Course/ Paper-2	A	F010102T	<p><u>Business Statistics:-</u></p> <ul style="list-style-type: none"> To provide knowledge about basic concepts of Statistics. To provide knowledge measurement of central tendency. To give an overview of correlation and regression analysis. To make able to know the sampling and probability.
	B		<p><u>Principles of Management:-</u></p> <ul style="list-style-type: none"> To provide knowledge about management and its principles. To provide knowledge about Managerial functions. To make aware with management thinkers and their contributions
Course/ Paper-3	A	F010103T	<p><u>Business Ethics and Governance:-</u></p> <ul style="list-style-type: none"> To develop understanding of business ethics and values. To provide relationship between ethics and corporate excellence. To give an overview about Gandhian philosophy and social responsibility.
	B		<p><u>Computer Applications:-</u></p> <ul style="list-style-type: none"> To provide knowledge about computer and its application. To provide knowledge about components and working on computer. To give an overview about software system and Data base management.

BBA- First Year Semester- Second

Subject	Part	Paper Code	Paper Name & Credits =3(All)
Course/ Paper-4	A	F010201T	<p><u>Organisational Behavior :-</u></p> <ul style="list-style-type: none"> To provide knowledge about Organisational Behavior. To provide knowledge about individual and group behaviour. To give an overview about change in organization and QWL.
	B		<p><u>Business Finance:-</u></p> <ul style="list-style-type: none"> To provide knowledge about business finance and investment decisions. To provide knowledge about financing and dividend decision. To give an overview about working capital.
Course/ Paper-5	A	F010202T	<p><u>Human Resource Development:-</u></p> <ul style="list-style-type: none"> To provide knowledge about HRD concepts and other aspects. To provide knowledge about potential appraisal. To give an overview about Job Enrichment and Quality circles. To make aware with human resource accounting.
	B		<p><u>Marketing Theory and Practices:-</u></p> <ul style="list-style-type: none"> To provide knowledge about Marketing Theory and Practices. To provide knowledge about market segmentation and marketing mix. To give an overview about marketing research.

Course/ Paper-6	A	F010203T	<u>Business Mathematics:-</u> <ul style="list-style-type: none"> To provide knowledge about Mathematics and its use in business. To make able about mathematical calculations. To learn about the use of set theory and calculus in business.
	B		<u>Advertising Management:-</u> <ul style="list-style-type: none"> To provide knowledge about advertisement and its use in business. To make able about advertisement concept and its management. To learn about the use of advertisement in business.

BBA- Second Year Semester- Third

Subject	Part	Paper Code	Paper Name & Credits =3(All)
Course/ Paper-7	A	F010301T	<u>Management & Cost Accounting:-</u> <ul style="list-style-type: none"> To understand how cost is charged to particular product or service To learn to identify and evaluate difference between Actual and Targeted Cost. Students understand management decision making.
	B		<u>Business Law:-</u> <ul style="list-style-type: none"> To define the knowledge, skills, the application of the knowledge and the skills the learner has acquired which he is able to demonstrate as the result of pursuing the course.
Course/ Paper-8	A	F010302T	<u>Production Management :-</u> <ul style="list-style-type: none"> Gaining knowledge about managing production processes. How to run operations effectively. Better understanding of modern production techniques.
	B		<u>Business Policy:-</u> <ul style="list-style-type: none"> Critically analyse the internal and external environments in which businesses operate and assess their significance for strategic planning. Apply understanding for the theories, concepts and tools that support strategic management in organizations. Build understanding of the nature and dynamics of strategy formulation and implementation processes at corporate and business level. Enhanced ability to identify strategic issues and design appropriate courses of action.
Course/ Paper-9	A	F010303T	<u>Business Communication:-</u> <ul style="list-style-type: none"> To understand and appreciate the process of communication as an important constituent of the professional effectiveness. To understand oneself and improve interpersonal skills.
	B		<u>Business Environment:-</u> <ul style="list-style-type: none"> To understand and appreciate the process of communication as an important constituent of the professional effectiveness. To understand oneself and improve interpersonal skills.

BBA- Second Year Semester- Fourth

Subject	Part	Paper Code	Paper Name & Credits =3(All)
Course/ Paper-10	A	F010401T	<p><u>Supply Chain Management:-</u></p> <ul style="list-style-type: none"> • Apply knowledge to evaluate and manage an effective supply chain. Understand the foundational role of logistics as it relates to transportation and warehousing. • How to align the management of a supply chain with corporate goals and strategies.
	B		<p><u>Research Methodology:-</u></p> <ul style="list-style-type: none"> • Reviewing literature to understand how other have approached or dealt with the problem. • Collecting data in an organized and controlled manner so as to arrive at valid decisions. • Analyzing data appropriate to the problem.
Course/ Paper-11	A	F010402T	<p><u>Specialised Accounting:-</u></p> <ul style="list-style-type: none"> • Demonstrate the ability to utilize the accounting cycle to record transactions, process information and prepare financial statements for a business.
	B		<p><u>Consumer Behaviour:-</u></p> <ul style="list-style-type: none"> • Able to explain the basic concepts and models of consumer behaviour. Able to analyze the effects of psychological, socio-cultural and demographic factors on the consumer decision process with their results. • Able to distinguish the relationship between consumer behavior and marketing practices.
Course/ Paper-12	A	F010403T	<p><u>Investment Analysis & Portfolio Management:-</u></p> <ul style="list-style-type: none"> • Measure the risk and return of a stock or a portfolio position. Diversify and manage investment portfolios in accordance with a person's risk Preferences. • Understand and evaluate investment advice from brokers and the financial press.
	B		<p><u>Business Law:-</u></p> <ul style="list-style-type: none"> • They have a broad understanding of the principles of the law of contract and be able to demonstrate their applications to the essentials of formations, performance and discharge of contractual obligations in commercial situations.

BBA- Third Year Semester- Fifth(Old)

Subject	Part	Paper Code	Paper Name & Credits =3(All)
Course/ Paper-13	A	F010501T	<u>Managerial Economics:-</u> <ul style="list-style-type: none"> The ability to use data to inform economic and business decision making. Students will be able to put together quantitative reports as well as to evaluate reports put together by others.
	B		<u>Entrepreneurship and Small Business Management:-</u> <ul style="list-style-type: none"> Demonstrate knowledge of the legal and ethical environment impacting business organizations and exhibit an understanding and appreciation of the ethical implications of decisions.
Course/ Paper-14	A	F010502T	<u>Income Tax laws and Accounting:-</u> <ul style="list-style-type: none"> After the completion of the course the students will be able to illustrate and compute the concepts and features of assessment of profits and loss of individual proprietorship. <u>Cost and Management Accounting:-</u> <ul style="list-style-type: none"> The able to determine product cost, formulate budgets and standards for planning and control. Understand the role of responsibility, accounting and performance measurement and explain contemporary thinking in management accounting.
	B		<u>Industrial Law:-</u> <ul style="list-style-type: none"> Students should be able to elaborate the concept of industrial relations. They should outline the important causes and impact of industrial disputes.
Course/ Paper-15	A	F010503T	<u>Fundamentals of Computer:-</u> <ul style="list-style-type: none"> Converse in basic computer terminology formulate opinions about the impact of computers on society. Know and use the basics of programming.
	B		<u>Environment Science:-</u> <ul style="list-style-type: none"> Demonstrate mastery of core ecological and physical science concepts and methods as they pertain to environmental problem- solving.

BBA- Third Year Semester- Six(Old)

Subject	Part	Paper Code	Paper Name & Credits =3(All)
Course/ Paper-16	A	F010601T	<u>International Trade:-</u> <ul style="list-style-type: none"> Explain the comparative advantage theory and the supply and demand models on the basis of analysis of international trade theory. Interrelate the trade theory with the economic development.
	B		<u>Strategic Management & Business Policy:-</u> <ul style="list-style-type: none"> Understand how to apply the model in an organisation, reorganise and understand common strategic planning terminology.

	B		
Course/ Paper-17	A	F010602T	<u>VAT & Service Tax:-</u> <ul style="list-style-type: none"> To enable the students to learn the concepts of indirect tax and GST from the pre GST period to the post GST period.
	B		<u>Management Information System:-</u> <ul style="list-style-type: none"> Communicate effectively in a variety of professional context. Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
Course/ Paper-18	A	F010603T	<u>Auditing:-</u> <ul style="list-style-type: none"> Articulate knowledge of fundamental audit concepts. Apply critical thinking skills and solve auditing problems through the use of case studies.
	B		<u>Fundamentals of E-Commerce:-</u> <ul style="list-style-type: none"> The student should be able to know the fundamental principles of e-business and e-commerce.

Degree in Bachelor of Computer Application

PROGRAMME OUTCOMES (POs)

A Bachelor in Computer Application (BCA) is a degree program that focuses on imparting foundational and advanced knowledge in computer applications and software development. The program is designed to build technical expertise and professional skills necessary for careers in the IT and software industry. Here are some typical program outcomes for a BCA degree:

PO1: Computing knowledge applies the knowledge of computing fundamentals to Identify, formulate, and solve problems in the areas of computer applications.

PO2: Problem Analysis and Design of solutions Apply analytical skills in solving computer based problems using fundamentals of computer science and application domains. • **PO3:** Modern tool usage: Ability to select and apply modern IT Tools and technologies for innovative software solutions and applications.

PO4: Technical Skill Development To develop and sharpen their IT/ programming, networking and data management skills required for identifying problems and issues relating to the Disciplinary area and field of study/ higher education.

PO5: Societal Concern: Recognize & appreciate the role of computing to design state-of-the-art methodologies for solving real life problems for the betterment of the society.

PO6: Environment and Sustainability Actively involved with knowledge, skills and right attitude to give sustainable solutions for the benefit of environment.

PO7: Ethics: Pertain ethical principles and entrust to professional ethics and responsibilities in a global economic environment.

PO8: Individual and team work Ability to work effectively as an individual, and in assorted teams.

PO9: Communication: Development of good communication skills in both written and verbal form in a substantial technical manner.

PO10: Life-long learning Ability to engage in independent and life-long learning through professional activities.

PO11: Multimedia Applications Professionally trained in the areas of multimedia, animation, web designing, effective media management, and to acquire knowledge in various domain multimedia applications.

PO12: Develop competence in the field of, system analysis and design, multimedia and graphics, web design, data & information security, networking, and recent areas of cloud computing.

PO13: To be able to understand problem, think of best suitable approach to solve the problem, develop and evaluate effective solutions as per the local/regional/ national/ global requirements and availability of resources/ technologies.

BACHELOR OF COMPUTER APPLICATIONS (B. C.A.)

COURSE OUTCOME

B.C.A. FIRST YEAR

Course Code	Course Name	L	T	P	C
BCA-1001	Computer Fundamental & Problem solving techniques	3	0	0	3

CO1	Describe the usage of computers and why computers are essential components in business and society.
CO2	Understanding the concept of Computer memory and input/output devices of Computers and how it works and recognize the basic terminology used in computer programming.
CO3	Demonstrate the use of Operating system commands. Understand the basic concepts of computational thinking, including sequential logic, abstractions and problem-solving techniques.
CO4	Possess the ability to design and develop programs to solve basic computational problems, develop algorithms and flowcharts. Explain the working of important application software and their use to perform any engineering activity.
CO5	Possess the ability to extend their knowledge towards learning behavior on windows operating system and Hands on training on MS Office Automation.

Course Code	Course Name	L	T	P	C
BCA-1002	C Programming	3	0	0	4

CO1	Able to understand the basic knowledge of Computer fundamental and its application in computers.
CO2	Able to understand the basic knowledge of Computer fundamental and its application in computers.
CO3	Able to design and develop various programming problems using C programming concepts.
CO4	Able to Implement advance C programming concepts like function, pointer, structure and Union
CO5	Able to understand the file handling using C Programming language.

Course Code	Course Name	L	T	P	C
BCA-1003	Principle of Management	4	0	0	4

CO1	Understand the concepts related to business.
CO2	Define Management and Demonstrate the roles, skills and Levels of management.
CO3	Describe major management theories, Business ethics and social responsibility in the context of management.
CO4	To analyze and discuss planning, Organizing, controlling, decision making, motivation, leadership, Management of change
CO5	Develop theoretical and critical thinking skills relevant to both academic and management practices.

Course Code	Course Name	L	T	P	C
BCA-1004	Business Communication	3	1	0	4

CO1	To participate in an online learning environment successfully.
CO2	To distinguish among various levels of organizational communication and communication barriers while developing an understanding of Communication as a process in an organization.
CO3	To draft effective business correspondence with brevity and clarity.
CO4	To stimulate their Critical thinking by designing and developing clean and lucid writing skills.
CO5	To demonstrate their verbal and non-verbal communication ability through presentations.

Course Code	Course Name	L	T	P	C
BCA-1005	Mathematics –I	4	0	0	4

CO1	Find out matrix representation of any data.
CO2	Apply the concepts of limit, continuity and differentiability in different science fields.
CO3	Apply Taylors and Maclaurin's theorem to find the expansion of functions as infinite series.
CO4	Evaluate the integrals of complex functions and to find area, volume.
CO5	Apply the concept of vector algebra, scalar triple product, vector triple product.

Course Code	Course Name	L	T	P	C
BCA-2001	Object Oriented Programming Using C++	3	0	0	3

CO1	Identify classes, objects, members of a class and relationships among them needed for a specific problem
CO2	Implement C++ application programs using OOP principles and proper program structuring.
CO3	Demonstrate the concepts of polymorphism, inheritance using C++ programming.
CO4	Using Generic function Template function to build generic programs.
CO5	Using Files Streams and Exception Handling to handle streams and exceptions.

Course Code	Course Name	L	T	P	C
BCA-2002	Internet Technology and Web Design	3	1	0	4

CO1	Analyze a web page and identify its elements and attributes.
CO2	Create web pages using XHTML and Cascading Style Sheets
CO3	Build dynamic web pages using JavaScript (Client side programming)
CO4	Create XML documents and Schemas.

Course Code	Course Name	L	T	P	C
BCA-2003	Organizational Behaviour	3	1	0	4

CO 1	Describe conceptual inputs to manage behavior in organizations and assess the basic design elements of organizational structure and evaluate their impact on employees.
CO 2	Evaluate individual human behavior in the workplace as influenced by personality, values, perceptions, and motivation.
CO 3	Analyze the behavior of individuals and groups in organizations in terms of the key factors that influence organizational behavior.
CO 4	Examine the cause of stress and analyze the effect of stress on individual , group and organization level.
CO 5	Examine the causes, outcomes and the different ways of managing individual, interpersonal and Group behavior in the context of Organizational set up.

Course Code	Course Name	L	T	P	C
BCA-2004	Financial Accounting & Management	4	0	0	4

CO 1	Prepare consolidated financial statements using international accounting standards.
CO 2	Manage the financial operations including revenues, expenses, assets, liabilities and capital and calculate the various ratios through financial statements and its impact on the short and long term position of the firm.
CO 3	Determine the long term sources of finance to fulfill the long term finance needs of organization.
CO 4	Demonstrate the applicability of the concept of Financial Management to understand Capitalization and Capital Structure, break-even point, fixed and variable costs and all the costs incurred in conducting the business.

CO 5	Evaluate and determine the organization's motives for holding cash, Cash budget, Managing Inventory and Receivables.
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Course Code	Course Name	L	T	P	C
BCA-2005	Mathematics II	4	0	0	4

CO1	Ability to learn the basic concepts about relations, functions and to draw different diagrams like Lattice, Hasse diagrams.
CO2	Ability to learn the basic concepts about relations, functions
CO3	To draw different diagrams like Lattice, Hasse diagrams.
CO4	Identify the application of partial differentiation and apply for evaluating maxima, minima
CO5	Illustrate the working methods of multiple integral and apply for finding area, volume

B.C.A. SECOND YEAR

Course Code	Course Name	L	T	P	C
BCA-3001	Python Programming	3	0	0	3

CO 1	Understand the structure, syntax, and semantics of the Python language.
CO 2	Solve real world problems by applying the Python Data Structures, Objects, Functions and Modules.
CO 3	Apply the fundamental principles of Object Oriented Programming.
CO 4	Apply the basics of data science using advanced Python libraries.
CO 5	Build practical applications in Python.

Course Code	Course Name	L	T	P	C
BCA-3002	Data Structure Using C & C++	3	0	0	3

CO 1	Understand the structure, syntax, and semantics of the Python language.
CO 2	Solve real world problems by applying the Python Data Structures, Objects, Functions and Modules.
CO 3	Apply the fundamental principles of Object Oriented Programming.
CO 4	Apply the basics of data science using advanced Python libraries.
CO 5	Build practical applications in Python.

Course Code	Course Name	L	T	P	C
BCA-3003	Operating System	3	1	0	4

CO1	Understand the basics of operating systems like kernel, shell, types and views of operating systems.
CO2	Describe the various CPU scheduling algorithms and remove deadlocks.
CO3	Explain various memory management techniques and concept of thrashing
CO4	Use disk management and disk scheduling algorithms for better utilization of external memory.
CO5	Recognize file system interface, protection and security mechanisms.

CO6	Explain the various features of distributed OS like Unix, Linux, windows etc
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Course Code	Course Name	L	T	P	C
BCA-3004	Digital Electronics & Computer Organization	3	1	0	4

CO1	An ability to understand theory of Digital Design and Computer Organization to provide an insight of how basic computer components are specified.
CO2	An ability to understand the functions of various hardware components and their building blocks
CO3	An ability to understand and appreciate Boolean algebraic expressions to digital design
CO4	An in depth understanding of sequential! Combinational circuits
CO5	An in depth understanding of realization of different combinational/sequential circuits

Course Code	Course Name	L	T	P	C
BCA-3005	Elements of Statistics	3	1	0	4

CO1	Organize, manage and present data.
CO2	Analyze statistical data graphically using frequency distributions and cumulative frequency distributions.
CO3	Analyze statistical data using measures of central tendency, dispersion and location.
CO4	Use the basic probability rules, including additive and multiplicative laws, using the terms, independent and mutually exclusive events.
CO5	Translate real-world problems into probability models.

Course Code	Course Name	L	T	P	C
BCA-4001	Computer Graphics and Animation	3	0	0	3

CO1	Understand the basics of computer graphics, different graphics systems and applications of computer graphics.
CO2	Discuss various algorithms for scan conversion and filling of basic objects and their comparative analysis.
CO3	Use of geometric transformations on graphics objects and their application in composite form.
CO4	Extract scene with different clipping methods and its transformation to graphics display device.
CO5	Explore projections and visible surface detection techniques for display of 3D scene on 2D screen.
CO6	Render projected objects to naturalize the scene in 2D view and use of illumination models for this.

Course Code	Course Name	L	T	P	C
BCA-4002	Database Management System	3	0	0	3

CO1	Describe DBMS architecture, physical and logical database designs, database modeling, relational, hierarchical and network models.
CO2	Identify basic database storage structures and access techniques such as file organizations, indexing methods including B-tree, and hashing.
CO3	Learn and apply Structured query language (SQL) for database definition and database manipulation.
CO4	Demonstrate an understanding of normalization theory and apply such knowledge to the normalization of a database.
CO5	Understand various transaction processing, concurrency control mechanisms and database protection mechanisms.

Course Code **Course Name**
BCA-4003 **Software Engineering**

L T P C
3 1 0 4

CO1	How to apply the software engineering lifecycle by demonstrating competence in communication, planning, analysis, design, construction, and deployment.
CO2	An ability to work in one or more significant application domains.
CO3	Work as an individual and as part of a multidisciplinary team to develop and deliver quality software
CO4	Demonstrate an understanding of and apply current theories, models, and techniques that provide a basis for the software lifecycle.
CO5	Demonstrate an ability to use the techniques and tools necessary for engineering practice
CO6	An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.

Course Code **Course Name**
BCA-4004 **Optimization Techniques**

L T P C
3 1 0 4

CO1	Understand the basic concepts of linear programming, duality and methods for solving linear programming problem.
CO2	Understand the mathematical formulation of transportation and assignment problems and solution
CO3	Solve simple games using various techniques.
CO4	Solve nonlinear unconstrained optimization problems.

Course Code **Course Name**
BCA-4005 **Mathematics-III**

T P C
0 0 4

CO1	Find out nth roots of complex numbers
CO2	Apply the concepts of vector calculus
CO3	Find out Directional Derivatives, Divergence and Curl
CO4	Find out Fourier series of periodic functions
CO5	To solve various differential equations and to apply these analytical methods in different engineering applications

B.C.A. THIRD YEAR

Course Code **Course Name(Old Course)**
BCA-501 **Database Management System**

L T P C
3 1 0 4

CO1	Describe DBMS architecture, physical and logical database designs, database modeling, relational, hierarchical and network models.
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CO2	Identify basic database storage structures and access techniques such as file organizations, indexing methods including B-tree, and hashing.
CO3	Learn and apply Structured query language (SQL) for database definition and database manipulation.
CO4	Demonstrate an understanding of normalization theory and apply such knowledge to the normalization of a database.
CO5	Understand various transaction processing, concurrency control mechanisms and database protection mechanisms.

Course Code	Course Name(Old Course)	L	T	P	C
BCA-502	Java Programming and Dynamic Webpage Design	3	0	0	3F

CO1	Use the syntax and semantics of Java programming language and basic concepts of OOPs.
CO2	Develop reusable Programs using the concept of Inheritance
CO3	Apply the concepts of Multithreading.
CO4	Design event driven GUI.
CO5	Identify categories of program, systems software and application organize and work with file and folder.

Course Code	Course Name(Old Course)	L	T	P	C
BCA-503	Computer Network	3	1	0	4

CO1	Explain basic concepts, OSI reference model, services and role of each layer of OSI model and TCP/IP, networks devices and transmission media, Analog and digital data transmission
CO2	Apply channel allocation, framing, error and flow control techniques.
CO3	Describe the functions of Network Layer i.e. Logical addressing, subnetting & Routing Mechanism.
CO4	Explain the different Transport Layer function i.e. Port addressing, Connection Management, Error control and Flow control mechanism.
CO5	Explain the functions offered by session and presentation layer and their Implementation.
CO6	Explain the different protocols used at application layer i.e. HTTP, SNMP, SMTP, FTP, TELNET and VPN.

Course Code	Course Name(Old Course)	L	T	P	C
BCA-504	Numerical Methods	3	1	0	4

CO1	Apply Numerical Methods to find solution of Algebraic and transcendental equation
CO2	Apply Various Interpolation techniques to interpolate the complicated functions for given data into much simpler once like polynomial
CO3	Evaluate numerically differentiation and integration of a tabular function if analytical methods are not given
CO4	Solve system of linear equations in large size with the help of different iterative methods
CO5	Solve the ordinary differential equations using different numerical methods

Course Code **Course Name(Old Course)**
BCA-601 **Computer Network Security**

L T P C
4 0 0 4

CO 1	identify some of the factors driving the need for network security
CO 2	identify and classify particular examples of attacks
CO 3	define the terms vulnerability, threat and attack
CO 4	identify physical points of vulnerability in simple networks
CO 5	compare and contrast symmetric and asymmetric encryption systems and their vulnerability to attack, and explain the characteristics of hybrid systems.

Course Code **Course Name (Old Course)**

L T P C

BCA-602 **Information System : Analysis Design &Implementation**

3 1 0 4

CO 1	To provide adequate understanding of systems concept, system analysis, and systems design, which would help them in having efficient and workable information system for management.
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Course Code **Course Name(Old course)**
BCA-603 **E-commerce**

L T P C
3 1 0 4

CO1	Use the Plate-form of E Commerce
CO2	Use the porter's Value chain Model
CO3	Apply the concept of E Commerce
CO4	Design and develop of E Commerce
CO5	Identify the categories of program, system software applications file and folder

Course Code **Course Name**
BCA-604 **Knowledge Management**

L T P C
3 1 0 4

CO 1	Introduce students business intelligence and importance and technologies involved in decision support system.
CO 2	Characterize expert systems, OLAP & OLTP. Introduction and use of data warehouse and data marts in knowledge management system.
CO 3	Apply appropriate tool for data mining and knowledge discovery form databases.

CO 4	Describe key components of KM solutions: infrastructure, mechanisms and technologies, systems and processes. Clear understanding of importance of intellectual capital in gaining a competitive advantage of organization
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Degree in Bachelor of Arts

PROGRAMME OUTCOMES (POs)

Bachelor of arts is a three-year program that provides a concrete foundation and Development of skills in specific areas related to specific specialization in all aspects of Sociology, Economics, Political science, Drawing and Painting, Psychology, Hindi, English, Music vocal.

PO1. This course will introduce students to new concepts of sociology discipline. These concepts will enhance the conceptual learning and understanding of the basic concepts used in Sociology.

PO2. The course is designed to incorporate all the key concepts of sociology which would enable the learner to develop keen insights to distinguish between the common sense knowledge and sociological knowledge.

PO3. Comprehension about the discipline, its research methods, related theories and models. A general understanding about how knowledge of psychology can be applied to benefit the management and/or amendment of problems of mankind. Development of skills and attributes of empathy, team work, coordination, cooperation, conflict resolution, and congruence.

PO4. Development of skills in specific areas related to specific specialization (e.g. psycho diagnostics, counseling, learning disability, health, community mental health and organizational behavior). Capability to articulate ideas in appropriate manner, with scientific writing and authentic reporting. Sensitivity towards diverse contexts, ethnic groups, minorities, marginalized groups and gender issues.

PO5. Understand the world, country, society and have awareness of ethical problems, social rights, values and responsibility to the self and to others. Understand and follow changes in patterns of political behavior, ideas and structures. Develop the ability to make logical inferences about social and political issues on the basis of comparative and historical knowledge.

PO6. Take individual and team responsibility, function effectively and respectfully as an individual and a member or a leader of a team; and have the skills to work effectively in multi-disciplinary teams. Know how to access and evaluate data from various sources of information. Develop knowledge of theories, concepts, and research methods in humanities and social sciences.

PO7. This course provides the basic ideas and concepts of Music Vocal, through these programme students will get knowledge about Indian Classical music and Students will be motivated to contribute towards nation building by making them aware of the Indian music and culture.

PO8. Understand the growth of Indian literature in English and appraise the evolution of Indian culture from traditional to modern. Develop an understanding of the basic poetic and prose devices to read, identify and analyze various literary forms of poetry and prose.

PO9. Investigate and understand the role of computers in developing students' performance in English Language through computer assisted learning.

PO10. The behavioral patterns of different economic agents, advance theoretical issues and their applications. Understand the basic concept of microeconomics PO3 Understanding basic concepts of macroeconomics. Acquaint with some basic statistical methods to be applied in economics acquaint with some basic mathematical methods to be applied in economics.

PO11. Students get information about Definition of art. The art language is based on concepts called the "ELEMENTS and PRINCIPLES of Design". Introduction to the basics elements of art, 5 Elements of art : Line Shape Color Texture Value.

PO12. Students will recognize and understand major monuments, artists, methods and theories, and be able to assess the qualities of works of art and architecture in their historical and cultural settings. How the then social problems should become subjects of Art.

PO13. This course provides the basic ideas and concepts of History and Historical development of Humanity. The program has been designed to develop historical outlook to resolve the day to day life struggles in the society and nation. v Designed to enhance the capacity of students to understand universal and domain-specific values in History .This course intends to orient the learner with the Approaches to the broader discipline of History. Develop the ability to address the complexities and interface among of self, societal, national and International priorities. v Promote research, innovation.

UG HISTORY

COURSE OUTCOMES(COs)

Year: First		Semester: First
Subject: History		
Course Title: Ancient and Early Medieval India (Till 1206 A.D.)		
Course Code: A050101T		Credit: 06
CO1	Introduction to Ancient History, Eminent Historians of India-Kallhan, R.C. Majumdar, Jadunath Sarkar, V.D. Savarkar, K.P. Jaiswal etc., Indian Knowledge System, Short brief History of Pre Historic age. Early State formation in South India.	
CO2	Indus Valley Civilization, Vedic and later Vedic period. Rise of Magadh Empire and Maurya Dynasty- Chandragupt , Bindusar and Ashok the Great , Kautilya and his Arthshastra.	
CO3	Gupta Dynasty – Chandragupt , Samudragupt , Chandragupt 'Vikramaditya' ,Golden Era of Ancient India, Age of Harsh Vardhan and Rise of Rajput States - Pratihara , Chalukya, Parmar and Chauhan, Rise of Feudalism in India.	
CO4	Customs, rituals and beliefs of Hindus. Culture & Tradition of Ancient Indian History, Advent of Islam: Invasion of Mahmood Ghaznavi and Md. Ghori.	

Year: First		Semester: Second
Subject: History		
Course Title: History of Medieval India (1206 A.D - 1757 A.D)		
Course Code: - A050201T Credit:06		
CO1	The Early Turks and The Khiljis. The Tughlaqs and Lodis. The Mughals: Babur and Humayun, Interlude of Shershah with special reference to Administration and Land revenue system.	
CO2	Akbar to Shahjahan : Mansabdari, Relation with Rajpoot and Maharana Pratap, Religious Policy. Aurangzeb: Rajput, Religious and Deccan policy, Decline and disintegration of Mughals	
CO3	Rise of Maratha under Shivaji : Administration, Revenue system, Concept of Hindu Pad- Padshahi and later Mughal.	
CO4	Development of Architecture and Painting in Mughal Period. Development of Sufiism in India, Bhakti Movement and Re-strengthening in North India.	

Year -Second		Semester: Third
Subject:- B.A. History		
Course Title:- History of Modern India (1757 A.D – 1857 A.D)		
Course Code: - A050301T Credit: 06		
CO1	Arrival of European Companies: Rivalry for Control. Ascendancy of British East India Company : Plassey and Buxar and its Impact.	
CO2	Territorial Expansion of East India Company: 1770-1813, Territorial Expansion of East India Company: 1813-1856.	
CO3	Rise of Punjab under Ranjeet Singh: conquests and administration. Rise of Hyderabad and Mysore in 18th century.	
CO4	Land Revenue system during colonial period: permanent settlement, Raiyatwari and Mahaalwari system. Indian Renaissance: Reform and revivals.	

Year -Second		Semester: Fourth
Subject:- B.A. History		
Course Title:- History of Modern India (1857 A.D – 1950 A.D)		
Course Code: - A050401T Credit: 06		
CO1	Lord Lytton and Lord Ripon, Lord Curzon and Partition of Bengal.	
CO2	Commercialization of Agriculture and its Impact on India.	

CO3	Development of Railway and its Impact. Development of Education in Colonial India.
CO4	Morley-Minto reforms, Govt. of India Act 1919 and 1935, Rise and Development of Communalism in India. Mergers of Princely states after Independence and Role of Sardar Vallabh Bhai Patel.
Year -Third Semester: Five Paper: I Subject:- B.A. History Course Title:- Nationalism in India. Course Code: - A050501T Credit:05	
CO1	First war of Independence: Causes, Impact and Nature. Factor leading to the growth of Nationalism in India Theories of Nationalism : Views of Gandhi and Tagore.
CO2	Early phase: the Ideology, Programme and Policy of Moderates. Extremist phase: Rise and development of Extremist in India.
CO3	Swadeshi Movement and Congress split at Surat. Rise of Muslim League: Demands and Programme. National awakening during First World War: Lucknow Pact and Home rule Movement.
Year -Third Semester: Five Paper-II(Optional) Subject:- B.A. History Course Title:- History of Modern world (1453 A.D – 1815A.D) Course Code: - A050502T (Optional) Credit:05	
CO1	Political and Religious structure of Europe in the early 15th Century. Renaissance: Its Causes, Feature and Impact.
CO2	Reformation Movement in Europe and Role of Martin Luther. Religious warfare: The Thirty Years War.
CO3	Glorious Revolution and Development of Cabinet system in England.
CO4	Industrial Revolution in 18th Century. French Revolution: Causes, Significance and Impact on world. Napoleon Bonaparte: Reforms, Continental System and His Foreign Policy.
Year -Third Semester: Five Paper-II (Optional) Subject:- B.A. History Course Title:- Social and Economic History of Medieval India (1200A.D- 1700A.D) Course Code: - A050503T (Optional) Credit:05	
CO1	Social condition during Sultanate Period. Market Control Policy and Revenue system of Allauddin Khilji. Sufism and Bhakti Movement in India.

CO2	Women's Condition during Sultanate Period. Land Revenue System during Mughal Period. Trade and Commerce during Mughal Period. Development of Banking system during Mughal Period. Development of Industry during Mughal Period.
Year –Third Semester: Five Paper-II (Optional) Subject:- B.A. History Course Title:- Ethics in History Course Code: - A050504T (Optional) Credit:05	
CO1	Introduction of Ethics- History. Determinants of Ethics, Normative and Applied Ethics. Different early Indian approach to understand Ethics. The survey of early Indian Ethics- study of Ved and Geeta.

CO2	Dharma and Rationality. The Bhakti Movement.
CO3	Ideas and Ethical Philosophy of Aurobindo. Ideas and Ethical Philosophy of Gandhi and Radhakrishnan.
Year -Third Semester: Five Subject:- B.A. History Course Title:- Course Title: Research Methodology, Tour and Study of Maps Course Code: -A050501R (Project) Credit:03	
CO1	Student has to prepare research report on any relevant topic of his/her interest in consultation with Supervisor. Supervisor will teach following to their students for enabling students to prepare research report; Meaning, types and significance of Research, Literature review and formulation of research design, research problem, objectives, hypothesis, Research materials and methods, Sampling etc. Techniques of writing scientific reports: Preparing notes, references, bibliography, abstract and keyword setc. Tour in-charge will also explain all the steps and methods for preparing Tour report.
Year -Third Semester: Sixth Paper-I Subject:- B.A. History Course Title:- Era of Gandhi and Mass Movement. Course Code: - A050601T Credit:05	
CO1	Entry of Gandhi and The Non Co-operation Movement. Rise of Revolutionary Movement in India with special reference to HRA, HSRA and Trial of Bhagat Singh. Rise of Revolutionary Movement outside India with special reference to Gadar Party.

CO2	Simon commission, Nehru report, The Civil Disobedience Movement
CO3	The Quit India Movement. Constitutional Crisis : Cripps and Cabinet Mission. Subhas Chandra Bose and Indian National Army. Mountbatten Plan, Partition and Independence.
Year -Third Semester: Sixth Paper-II (Optional) Subject:- B.A. History Course Title:- History of Modern world (1815A.D- 1945A.D) Course Code: - A050602T (Optional) Credit:05	
CO1	Unification of Germany and Italy, Causes leading to First world war, Paris Peace Convention and treaty of Versailles. League of Nations: Organization, Achievements and Failure.
CO2	Rise of Communism in Russia: The Bolshevik Revolution. Rise of Dictatorship: Mussolini and Hitler.
CO3	United states in world affairs : Economic Depression and New Deal policy of F.D.Roosevelt. Factor leading for Second World War and U.N.O.
Year -Third Semester: Sixth Paper-II(Optional) Subject:- B.A. History Course Title:- Social and Economic History of Early Modern India(1700A.D-1900 A.D) Course Code: - A050603T (Optional) Credit:05	
CO1	Social and Religious Reformation Movement. Reforms in MusLand Revenue System during colonial period: Permanent Settlement, Raiyatwari and Mahaalwari system.
CO2	Decline of Indian Handicraft in British period. Commercialization of Agriculture and its Impact on India.
CO3	Theory of Drain of Wealth. Development of Railway and its Impact. Development of Banking System in Colonial Period.
Year -Third Semester: Sixth Paper-II(Optional) Subject:- B.A. History Course Title:- History and its Professional Utility Course Code: - A050604T (Optional) Credit:05	
CO1	Use of Archives and Museums. Use of Map in History. Importance of Libraries.
CO2	Local Heritage, Temples and Shrines. Tourism for ArchitePreservation of Environment in History.ctural Monuments.

CO3	A Historical Survey of development of Science and Technology in India. Use of History in Journalism: Print and Electronic Media.
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Year -Third		Semester: Sixth
Paper- Project		
Subject:- B.A. History		
Course Title:- Study of Languages used in Indian History		
Course Code: - A050601R Credit: 03		
CO1	Student has to prepare research report on any language of Historical importance of his/her interest in consultation with Supervisor. Supervisor will teach following to their students for enabling students to prepare research report; Meaning, types and significance of Historical Languages, Literature review and formulation of research design of the language. Techniques of writing and reading of the selected language.	

UG ENGLISH

COURSE OUTCOMES (COs)

CERTIFICATE IN ENGLISH (B.A. I YEAR)

Year -First		Semester: First
Paper-1		
Subject:-English		
Course Title: English Prose and Writing Skills		
Course Code: - A040101T Credit: 06		
CO1	Understand Indian English Writing as a new form of Indian culture and voice in which India converses regularly. They will be able to understand contributions of various authors in the growth of Indian English Writing.	
CO2	Understand the formal qualities of a text, intricacies of structure, stylistics and figurative elements found in the text.	
CO3	Analyse the difference in the prose techniques of different writers like Addison, Lamb and Bacon. Make use of word choices, word order, figurative language and imagery to convey meaning/emotion.	

CO4	Identify the writings of classic prose and short story writers like Chekhov, Maupassant and O' Henry. Understand the prominence of logic and reason in the 18th century British literature. Describe the literary terms related to prose.
CO5	Comprehend the culture, author's biography and historical context of the prescribed prose works. Perform basic functions of a word processor, Excel spreadsheet and PowerPoint presentation practically. Do online communication like content writing and blogging.
CO6	Do official communication by writing official letters/complaint letters. Practically explore their creative genius in creating blogs and personal websites for vocational purposes.

Year -First		Semester: Second	
Paper-1			
Course Title: English Poetry			
Course Code:A040201T Credit: 06			
CO1	Understand the basic terminology and practical elements of poetry Comprehend the meaning of words, phrases and sentences in a given context.		
CO2	Analyse the underlying meaning of a poem by using the elements of poetry. Identify the representative poets and writers of 16th ,17th, 18th and 19th and 20th century.		
CO3	Identify the devices used by the poet, the mood, the atmosphere, the voice, the stanzaic form, rhyme pattern and metre scheme.		
CO4	Examine the difference between Shakespearean and Miltonic sonnet forms. Comprehend the experimental poetry of Metaphysical age and the characteristics of Neo-classical poetry.		
CO5	Analyse the existing conflict between faith and doubt in Victorian society. Discuss the significance of the literary period of the text by analysing the effects of the major events of that period.		
CO6	Understand the difference between reason and imagination, literature and revolution. Exposed to the trends in 20th century poetry of Eliot, Yeats and Larkin .		

DIPLOMA IN ENGLISH (B.A. II YEAR)

Year -Second		Semester: Third
Paper-1		Course Title: British and American Drama
Course Code: :A040301T		Credit:06
CO1	Develop an understanding of various types of drama & related literary terms .Learn the core elements of structure such as exposition, complication and resolution or denouement .Trace the origin and growth of drama in England and America .	
CO2	Comprehend the political, economic, social and intellectual background leading to the rise of drama in England and America. Analyse and appreciate the representative works of British and American Drama. Comprehend the general features of Shakespearean plays	
CO3	Demonstrate the ability to contextualize the works of American dramatists, interpret the thematic and stylistics elements of the plays and appreciate their literary worth, social relevance and timeless appeal.	
CO4	Develop an interest in Shakespearean language, his use of images, supernatural elements, music and the word play. Comprehend the trends in modern drama through the study of poetic drama and problem Plays.	
Year -Second		Semester: Fourth
Paper-2		Course Title: Indian Literature in Translation
Course Code:A040401T		Credit:06
CO1	Develop a comparative perspective to study the texts. Understand the history of translation and various forms of translations Analyse the translation tools to make use of technology like computer and mobile in the process of translation.	
CO2	Attain accessibility to regional literary forms .Contextualize the texts of Jaishankar Prasad, Amrita Pritam, and Tagore in their respective social and cultural milieu .Develop an insight into the philosophy of Kabir through his verses.	
CO3	Gain a historical vision of the partition trauma and the contemporary issues of the tribal people through the writings of Bhisham Sahni and Mahasweta Devi .Develop an insight about Indian familial conflicts and social evils.	
CO4	Gain a historical vision of the partition trauma and the contemporary issues of the tribal people through the writings of Bhisham Sahni and Mahasweta Devi .Develop an insight about Indian familial conflicts and social evils .	

DEGREE IN ENGLISH (B.A. III YEAR)

Year- Third Semester: Fifth Paper-1 Course Title: Classical Literature & History of English Literature Course Code: : A040501T Credit: 05	
CO1	Develop an understanding of the historical background of Greek and Roman literature and history .Recognise the great works of unparalleled classical writers like Plato, Homer and Sophocles.
CO2	Develop an understanding of the evolution of English Literature, the concept, causes and impact of Renaissance and Reformation .Trace the origin and development of English drama through Miracle and Morality plays and the plays of University Wits.
CO3	Develop an acquaintance with major religious, political and social movements from 15th to 20th century and their influence on English literature. Comprehend the basic difference and special characteristics of the major literary tendencies of various ages and develop familiarity with major literary works by British writers in the field of Poetry, Drama and Fiction.
CO4	Understand the characteristics of Elizabethan and Metaphysical poetry and special features of Neo-classical age and its literature. Identify the reasons of the emergence of prose and novels and the decline of drama in England in the 18th century .Comprehend the role of French Revolution in the evolution of romanticism in English Literature.
CO5	Interpret the characteristics of Victorian age and the growth of literature in the age .Appreciate the special characteristics of the poetry of Pre-Raphaelites and Naughty Nineties .Comprehend the trends in the poetry, drama and fiction of 20th century English literature.
Year- Third Semester: Fifth Paper-2 Course Title: Fiction Course Code: A040502T Credit: 05	
CO1	Develop an understanding of the growth of novel form and its various types .Enhance their reading skills and understand how to represent their experience and ideas critically, creatively, and persuasively through the medium of English language.
CO2	Get acquainted with different cultures, myths and social conservation through the reading of selected novels of Britain, America and India.
CO3	Learn human values and behavioural pattern from the prescribed novels and develop an understanding of the human race

CO4	Exposed to the unflattering portrayal of the contemporary Indian society through popular works of Indian fiction writers in English.
CO5	Enhance their reading skills and understand how to represent their experience and ideas critically, creatively, and persuasively through the medium of English language.
Year- Third Semester: Sixth Paper-1 Course Title :Indian & New Literatures in English Course Code: :A040601T Credit:05	
CO1	Develop an understanding of the Indian freedom struggle, the contemporary political, social and economic scenario and the also the trauma of the partition .Comprehend how ‘New Literatures’ incorporates very different literary products, each with its own cultural, social and geographical specificity .
CO2	Develop an understanding of the themes, styles and poetic sensibilities of poets like Toru Dutt, Nissim Ezekiel, Jayant Mahapatra and Keki N. Daruwala . Critically analyse the drama as a medium of exploration of existing social issues and prejudices through the work of dramatists like Mahesh Dattani and Asif Currimbhoy.
CO3	Understand the socio-cultural-political conditions of the contemporary India as explored in the fiction of writers like Kamala Markandaya. Analyse and evaluate the difference in the theme and background of the works of Indian writers in English and the English writers already studied in the previous years .
Year-Third Semester: Sixth Paper-2 Course Title: Literature in Films & Media Studies Course Code: A040602T Credit:05	
CO1	Develop an understanding of the technical terminology associated with film and media studies .Interpret films as text and evaluate them critically.
CO2	Appraise the process of adaption of texts into films .Recognize the nuances of film narration .Assess various film genres and their characteristics.
CO3	Appreciate the works of prescribed writers and the directors as well who directed their adaptations.
CO4	Exercise critical viewing and develop reading skills in determining the success of adaptations and present their assessments through a variety of mediums including presentations and essays.

Year-Third		Semester: Sixth
Paper-3		
Course Title: Media and Journalistic Writing		
Course Code: A040603T Credit:05		
CO1	Understand different types of journalism and their importance. Comprehend various principles of mass communication.	
CO2	Differentiate between various forms of media & journalistic writing and reporting. Understand the meaning and nature of public speaking. Identify social media norms and online journalism.	
CO3	Write in various journalistic formats effectively. Understand the meaning and nature of public speaking. Edit reports and create engaging advertisements.	

UG ECONOMICS

COURSE OUTCOMES (COs)

CERTIFICATE IN ECONOMICS

Year: First		Semester: First
Paper:- 1		
Subject:- Economics		
Course Title:- Principle of Microeconomics		
Course Code: - A080101T Credit: 06		
CO1	The students are familiarised with basic concepts of microeconomics such as loss of demand and supply and elasticity it's a tra so that he she can comprehend them and family rise with day today happenings.	
CO2	The students learn and understand the concepts of consumer behaviour like cardional utility and ordinal utility analysis	
CO3	The students learn and understand application of indifference curve analysis in deriving demand curve, price effect, income effect and substitution effect.	
CO4	The students learn and understand theory of production isoquence law of returns to scale law of variable proportion	
CO5	The students learn, understand and compare between the traditional and modern theory of cost.	
CO6	Demonstrate and understanding, usage and application of basic economic principles.	

CO7	Describe and apply the methods for analysing consumer behaviour through demand and supply, elasticity and marginal utility.
CO8	To analyse the behavioural patterns of different economic agents regarding profit, price, cost etc.
CO9	The decision making process in different market situations such as perfect competition monopolistic competition Monopoly and oligopoly markets.

CO10	To deal with the advance theoretical issues and their practical applications of distribution theories.
CO11	General equilibrium, economic efficiency and market failure
Year: First Semester: Second Paper:- 1 Subject:- Economics Course Title: Macro economics Course Code: - A080201T Credit:06	
CO1	Students are able to explain national income, comprehend calculation methods of national income, and concepts related to national income.
CO2	Students are able to comprehend classical theory of employment and the keynesian approach.
CO3	Students are able to comprehend the concept of multiplier and its working.
CO4	Students are able to understand the relationship between inflation and employment.
CO5	Students are able to understand the relationship between inflation and employment.
CO6	Students are able to analyse different phases of trade cycle demonstrate various straight cycle theories, understand the impact of cyclical fluctuation On the growth of Business, and lay policies to control trade cycle.

DIPLOMA IN ECONOMICS

Year -Second		Semester: Third
Paper-1		
Subject:- Economics		
Course Title:- History of economic thought		
Course Code: - A080301T Credit:06		
CO1	To learn and discuss, at an advance undergraduate level, how the economic thought has evolved overtime.	
CO2	Introducing students to the critical comparison of the contributions of the main schools of Economics.	
CO3	To introduce and highlight before the students about Indian economic thinkers and their valuable contribution in the field of Economics.	
CO4	The classical, marginalize revolution and it's application to the theories of general and partial equilibrium, the current macroeconomic debate between the neo- classical and keyneslan School.	
Year -Second		Semester: Fourth
Paper-1		
Subject:- Economics		
Course Title:- Money, banking and Public Finance		
Course Code: - A080401T Credit: 06		
CO1	Understand simple concepts related with monetary economics and banking theory.	
CO2	Correlate and applied to current events and key models and concepts of monetary economics and banking theory.	
CO3	Appreciate the potential importance of monetary phenomenon in the economy.	
CO4	Understand the sources of finance both public and private .	
CO5	Demonstrate the role of government to correct market failures and possible advantage of public financing.	
CO6	Understand the possible button, benefits and distribution of various typesof taxes among various classes of people know the general Trend and impact on general welfare and arouse them to suggest good and bad tax system.	

DEGREE IN ECONOMICS

Year –Third		Semester: Fifth
Paper-1		
Subject:- Economics		
Course Title:- Economic growth and development		
Course Code: - A080501T Credit: 05		
CO1	Student should be able to comprehend the concept and meaning of economic growth and economic development.	
CO2	Student should be able to distinguish between economic growth and economic development.	
CO3	Student should be able to comprehend the issues and challenges and economic growth and development.	
CO4	Student should be able to comprehend and explain the concept of poverty and human development and the related concepts.	
CO5	Student should be familiar with the approaches to development.	
CO6	Student should be able to understand and explain the factors and variable of economic development.	
CO7	Students are able to understand how International factors facilitate and impede economic development.	
Year -Third		Semester: Fifth
Paper-1		
Subject:- Economics		
Course Title:- Environmental economics		
Course Code: - A080502T Credit:05		
CO1	Student should be familiar with the basic concepts of ecology environment and economy.	
CO2	Students to understand the solution to environmental problems- the command and control approach, market based methods, tax tradable pollution permit, etc. carbon trading.	
CO3	Student should be familiar with the concept of Sustainable Development, environmental impact assessment CO5: global and local environmental concerns.	
CO4	Student should be comprehend the local issues of economic bearing related to environment and development.	
CO5	Student should realise the importance and influence of environment on the economy including the quality of Manpower.	

CO6	Student should realise the importance to make cleaner environment so as to achieve harmonious development.
CO7	Student should comprehend the environmental problem is not the problem of a single country or religion but a global problem/ issue.
CO8	Demonstrate an Awareness of economic growth problems issue in globalisation and provide grounding in major growth Strategies and development.
<p>Year -Third Semester: Fifth Paper-1 Subject:- Economics Course Title:- International Economics Course Code: - A080503T Credit:05</p>	
CO1	Student should be able to understand and explain the concept,need, significance and scope of international economics.
CO2	Student should be familiar with the approaches of international trade.
CO3	Student should be familiar with and are able to explain the economic integration at the global level and the formation of groups.
CO4	Students are familiar with the International organisations and their objectives. Student should be able to analyse the importance and relevance of these International organisations.
<p>Year -Third Semester: Fifth Paper-2 Subject:- Economics Course Title:- Elementary statistics based project Course Code: - A080504R Credit:03</p>	
CO1	Students to be familiar with the concepts in statistics.
CO2	The concepts comprehend by the students shall be put to use in practice.
CO3	The students become familiar with the practical aspects of preparing a questionnaire oblique interview schedule and putting them in usage.
CO4	The information/data collected by the students should be analysed with the help of statistical tools taught so as to derive inferences.
CO5	The students shall experience the practical aspect of theory of statistics being taught in the classroom environment.
CO6	The students are able to use statistical tools vis-a-vis given real life situation.
CO7	Practical work to be based on the topics covered in the contents given below.

Year -Third	Semester: Sixth
Paper-III	
Subject:- Economics	
Course Title:- Indian Economy and Economy of Uttar Pradesh	
Course Code: - A080601T Credit: 05	

CO1	Student should be able familiar with the basic characteristics of Indian economy.
CO2	Student should be able familiar with the with it's potential on natural resources of Indian economy and the economy of Uttar Pradesh.
CO3	Students are able to understand the importance, causes and impact of population growth and its distribution full stop translate and relate them with economic development.
CO4	Students are able to develop and understand about Uttar Pradesh its demographic feature, natural resources and factors that can stimulate its economic growth and development.
CO5	Student should be familiar with the rural development of Uttar Pradesh over the period of time.
CO6	Student should be familiar with the industrial development in India andin Uttar pradesh.

Year -Third	Semester: Sixth
Paper-III	
Subject:- Economics	
Course Title:- Agriculture Economics	
Course Code: - A080602T Credit:05	

CO1	Student should be able to comprehend and explain the approaches to economic development with respect to dualistic development.
CO2	Student should be able to understand and explain the basics of agriculture economics.
CO3	Student should be familiar with labour issues in agriculture sector.
CO4	Student should be able to explain the significance of agriculture in the economic growth and economic development of an economy and in case of Indian economy.
CO5	Student should be familiar with the institutional initiate to strength andthe rural and Agricultural Development to achieve self sufficiency.
CO6	Student should be able to comprehend the role of credit in the development of agriculture in a country like India and the significance ofinstitutional mechanism in this regard.

Year -Third Semester: Sixth Paper-I Subject:- Economics Course Title:- Elementary Mathematics Course Code: A080603T Credit: 05	
CO1	Students should be familiar with the basic concepts of mathematics and their applications in economics.
CO2	Students are able to comprehend and explain the concepts of straight lines slope et cetera of mathematics and its application in economics.
CO3	Student should be able to understand basics of Differential and its applications in economics.
CO4	student should be able to understand and work with matrices and determine if a given square matrix is invertible.
CO5	Learn about and work with vector spaces and subspaces. Students are able to understand and work with the concepts of linear programming and graphic methods
Year -Third Semester: Sixth Paper-I Subject:- Economics Course Title:- Project /Dessertation Course Code: - A080604R Credit: 03	
CO1	The objective of introducing dissertation/ project at the graduation level is two familiarities acquaint and experience the local issues of economic implication or 4 focused on economic well being and behaviour of consumers / citizens
CO2	It aims at enabilling the students to use and apply the learned economic principles vis-a-vis local economic
CO3	To enable them to learn preparation of questionnaire/ interview schedule
CO4	The template/ format of the desertation / project shall be developed by the respective department
CO5	The idea behind this is to develop economic thinking in the students through direct experience to real life

UG Hindi

Course Outcomes(COs)

Year -First Semester: First Paper-1 Subject:-Hindi Course Title:- हिंदी काव्य Course Code: - A010101T Credit: 06	
CO1	हिंदी काव्य के प्रतिनिधि कवियों की कविताओं के विषय में जानकारी देना तथा हिंदी काव्य के संक्षिप्त इतिहास की जानकारी देकर विद्यार्थियों को हिंदी कविता के विकास क्रम से अवगत कराना।

Year -First Semester: Second Paper-1 Subject:- Hindi Course Title:- कार्यालयी हिंदी और कंप्यूटर Course Code: - A010201T Credit: 06	
CO1	हिंदी के विद्यार्थियों को कार्यालय के कार्यों की मूलभूत जानकारी प्रदान करना ताकि वह कार्यालय के कार्यों को सुगमतापूर्वक कर सकें एवं उन्हें कंप्यूटर का मूलभूत ज्ञान देना तथा उन्हें कंप्यूटर पर हिंदी में कार्य करने में सक्षम बनाना ताकि वह कंप्यूटर पर कार्य करने में सक्षम होकर रोजगार प्राप्त कर सकें।

Year -Second Semester: Third Paper-1 Subject:- Hindi Course Title:- हिंदी गद्य Course Code: - A010301T Credit: 06	
CO1	हिंदी के विद्यार्थियों को हिंदी गद्य की सभी विधाओं का सम्यक ज्ञान देना तथा उन्हें हिंदी के प्रतिनिधि उपन्यासकारों, कथाकारों, नाटककारों एवं एकांकीकारों, निबंधकारों एवं अन्य गद्य विधाओं के लेखकों के महत्वपूर्ण प्रदेय से परिचित कराना, ताकि विद्यार्थी इन विधाओं से परिचित हो सकें और इस क्षेत्र में करियर बनाने के इच्छुक विद्यार्थी इस हेतु तैयार हो सकें।

Year -Second Semester: Fourth Paper-1 Subject:- Hindi Course Title:- हिंदी अनुवाद Course Code: - A010401T Credit: 06	
CO1	विद्यार्थियों को हिंदी के साथ-साथ अंग्रेजी की प्रारंभिक जानकारी प्रदान करते हुए वैश्विक प्रतिस्पर्धात्मक वातावरण के साथ सामंजस्य स्थापित करने में सक्षम बनाना तथा भारतीय संस्कृति और साहित्य के प्रचार प्रसार में सहायक बनाना।

Year -Third		Semester: Fifth
Paper-1		
Subject:- Hindi		
Course Title:- साहित्यशास्त्र और हिंदी आलोचना		
Course Code: - A010501T Credit: 05		
CO1	इस पाठ्यक्रम के अध्ययन से विद्यार्थी साहित्यशास्त्र एवं आलोचना के अर्थ, महत्व और उनके विषय-क्षेत्र से परिचित हो सकेंगे तथा वे हिंदी आलोचना के रूप में भारतीय एवं पाश्चात्य काव्यशास्त्र के आधुनिक विकास के विविध रूपों और दिशाओं का साक्षात्कार कर सकेंगे।	

Year-Third		Semester: Fifth
Paper-II		
Subject:- Hindi		
Course Title:- हिंदी का राष्ट्रीय काव्य		
Course Code: - A010502T Credit: 05		
CO1	हिंदी की राष्ट्रीय काव्य चेतना से जुड़े कवियों की रचनाओं के माध्यम से विद्यार्थियों में राष्ट्र के प्रति अनुराग जाग्रत करना।	

Year -Third		Semester: Sixth
Paper-1		
Subject:- Hindi		
Course Title:- भाषा विज्ञान, हिंदी भाषा तथा देवनागरी लिपि		
Course Code: - A010601T Credit: 05		
CO1	भाषा के अंगों, हिंदी भाषा के उद्भव और विकास और देवनागरी लिपि के स्वरूप की जानकारी प्राप्त होगी। विद्यार्थियों को हिंदी की वैज्ञानिक एवं वैधानिक स्थिति से परिचित कराना।	

Year -Third		Semester: Sixth
Paper-II		
Subject:- Hindi		
Course Title:- लोक साहित्य एवं लोक संस्कृति		
Course Code: - A010602T Credit: 05		
CO1	भारतीय संस्कृति में जनश्रुति से निर्मित साहित्य के महत्वपूर्ण योगदान से विद्यार्थियों को परिचित कराना तथा लोक संस्कृति के विकास से विद्यार्थियों को अवगत कराना।	

UG SOCIOLOGY

COURSE OUTCOMES

CERTIFICATE IN BASIC SOCIOLOGY

Year : First		Semester : First
Subject: Sociology		
Course Title: Introduction to Basic Concept of Sociology		
Course Code: A070101T Credit :06		
CO1	This paper will introduce students to new concepts of sociology discipline.	
CO2	These concepts will enhance the conceptual learning and understanding of the basic concepts used in Sociology.	
CO3	This paper will contribute in enriching the vocabulary and scientific temperament of the students.	
CO4	The courses designed to incorporate all the key concepts of sociology which would enable the learner to develop keen insights to distinguish between common sense knowledge and sociological knowledge	
Year -First		Semester: Second
Subject:- Sociology		
Course Title:- Society in India Structure Organisation and Change		
Course Code: - A070201T Credit: 04		
CO1	This paper is designed in this manner so that students are introduced to the concepts related to concept related to a society.	
CO2	They are made familiar with the Indian society, its linkage and continuity with past and present.	
CO3	It gives insights to analyse contemporary Indian society.	
CO4	This paper provides comprehensive understanding of an society	

Year –First		Semester: Second
Subject:- Sociology		
Course Title:- Writing Skill Development on Topics of Contemporary Sociological Importance		
Course Code: - A070202P Credit: 02		
CO1	This is the practical paper introduced in the second semester of the certificate course in order to develop writing skills among the students of sociology.	
CO2	This would enhance and inculcate the analytical skills among the students.	
CO3	The paper is designed to enrich the conceptual vocabulary of the students such that they are equipped with the writing style in Sociology.	
CO4	This paper is resumably beneficial for the students who are interested in the field of media, journalism, essay writer, column writer, psychology, journalism.	

DIPLOMA IN SOCIOLOGY

Year: Second		Semester: Third
Subject: Sociology		
Course Title:- Social change and Social Movement		
Course Code: - A070301T Credit: 06		
CO1	This paper is designed in a manner so that students are introduced to the concepts related to social change and social movement.	
CO2	This course will introduce students to the dynamic aspects and dissension tendencies of society.	
CO3	The critical evaluation would enable students to come out with better suggestions contributing in Cohesion of society.	
Year -Second		Semester: Fourth
Subject:- Sociology		
Course Title:- Social Problems and Social Development in India		
Course Code: - A070401T Credit:04		
CO1	The syllabus is designed to introduce students to the emerging social problems, the concept and issues of development in Indian society.	
CO2	The course intends to focus upon the deviant and delinquent behaviour issue of corruption and other disorganizational and structural problems of Indian society.	
CO3	The endeavour of the course is to make learners aware about the social problems and development issues in the Indian society.	
Year: Second		Semester : Fourth
Subject: Sociology		
Course Title: Project on Sustainable Society		
Course Code:A070402 R Credit: 02		

CO1	The syllabus designed to introduce students to the emerging social problems and the concept and issues of development in Indian society.
CO2	The project work will engage students directly in practical knowledge about the conducting research project.
CO3	This project work will help learners to know about the issue of sustainability and policies and programmes.

DEGREE IN BACHELOR OF ARTS

Year -Third		Semester: Fifth
Subject:- Sociology		
Course Title:- Classical Sociology Thoughts		
Course Code: - A070501T Credit: 05		
CO1	The course syllabus is designed to help students to know about the classical contribution of pioneers of sociology.	
CO2	The paper will focus upon the history of Sociology and the intellectual traditions originated during the crisis in Europe and the impact it had on the structure of society.	
CO3	The learner will gain theoretical as well as methodological knowledge about the subject.	
Year -Third		Semester: Fifth
Subject:- Sociology		
Course Title:- Research Methodology in Social Sciences		
Course Code: - A070502T Credit:05		
CO1	The course of research methodology in Social Sciences/ sociology is structured in a way that it makes student to understand and comprehend the research problems research techniques and nevertheless course intends to develop objective as well as subjective enquiry into the areas of sociological studies.	
CO2	The main purpose of the course it's to develop scientific and humanistic approach towards the research work in the subject.	

Year -Third	Semester: Fifth
Subject:- Sociology	
Course Title:- Practical application of research methodology/ projectwork.	
Course Code: - A070503P Credit: 03	

CO1	Research methodologies comprise important part in the course structure of Sociology the course is designed in such a way that student will learn the basic and useful techniques of research which will be beneficial in exploring the research questions and formulation of Research Design.
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CO2	The student will learn how to construct schedule and applicability of other research methods.
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Year -Third	Semester: Sixth
Subject:- Sociology	
Course Title:- Pioneers of Indian sociology	
Course Code: - A070601T Credit: 05	

CO1	The course outline has been delineated in a manner that the students of sociology is able to gather knowledge about the esteemed Indian pioneers of sociology, who largely use indigenous methodology to understand the Indian society and its complexities.
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CO2	The learner will be able to grasp information and knowledge about the approaches and theoretical framework adopted by the Indian sociologist and simultaneously they will know about the history of sociology and sociological traditions.
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Year -Third	Semester: Sixth
Subject:- Sociology	
Course Title:- Gender and Society	
Course Code: - A070602T Credit: 05	

CO1	This course is gender sensitive and is directed towards engaging students to learn and read think about the gender issues.
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CO2	The course will introduce students to the core gender issue and will equip them to come with suggestions which would be directed towards gender equity.
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Year : Third	Semester : Sixth
Subject: Sociology	
Course Title: Field work case study project work	
Course Code: A070603 R Credit: 03	

CO1	The syllabus is designed to introduce students to get themselves engaged in the field work and project work so that they are equipped with the practical knowledge about the field work and research project.
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CO2	This will be an empirical learning for those who Aspire to become futuresocial scientists.
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UG PSYCHOLOGY
COURSE OUTCOMES

Year -First		Semester: First
Paper-1		
Subject:-Psychology		
Course Title:-Basic Psychological Processes		
Course Code: - A090101T Credit: 04		
CO1	The students will learn about the fundamental processes and core psychological concepts, models, classical theories, varied perspectives, and will be able to apply them in their own and in others lives.	
CO2	It will also give the learner a clear understanding of the concepts like intelligence, motivation, emotion and personality.	
CO3	It will develop critical analytical skills regarding these individualistic traits.	
Year -First		Semester: First
Paper-2 (Practical)		
Subject:-Psychology		
Course Title:-Lab Work		
Course Code: - A090102P Credit: 04		
CO1	Students will be imparted a variety of skills to design and conduct psychological experiments ensuring controlled conditions, report writing and interpretations of the report.	
CO2	Any one experiment based on Attention/Perceptual Processes 8 (16 hrs).	
CO3	Any one experiment based on Classical Conditioning/Operant Conditioning/Verbal Learning.	

Year -First	Semester: Second
Paper-1	
Subject:-Psychology	
Course Title:-Basic Research Methodology and Statistics	
Course Code: - A090201T Credit:04	

CO1	The learners will be able to comprehend psychological data and can put them on appropriate scaling method. Moreover, they will be getting hold of essentials of psychological testing along with various kinds of tests implemented.
CO2	Intelligence Testing: Measurement of abilities: Stanford Binet, and Wechsler Test of Intelligence, Culture Fair Tests: Structure and Application.
CO3	Personality Tests: Self Report Inventories (16 PF, NEO-PIR), Projective Techniques: Nature and Types.

Year -First	Semester: Second
Paper-2	
Subject:-Psychology	
Course Title:-Lab Work/ Psychological Testing	
Course Code: - A090202P Credit: 02	

CO1	Students will be conferred an array of skills to carry out experiments in lab settings, design and conduct psychological experiments ensuring controlled conditions, report writing and interpretations of the report.
CO2	Plan, conduct and report an experiment using experimental method.
CO3	Ascertain the Reliability of any psychological test using any method of Reliability and report.

Year- Second	Semester: Third
Paper-1	
Subject:-Psychology	
Course Title:-Psychology of Social Behavior	
Course Code: - A090301T Credit: 04	

CO1	By the end of the course, students will be able to summarize general information, through in-class discussion and assignments, pertaining to social psychological theories and an opportunity to apply social psychological theories to their lives.
CO2	Critically evaluate research to understand and explain distressing human social behavior and relate social psychological concepts and theories to the context of historic and current world, national, and local events.

CO3	Social Psychology: Nature, and Scope; Methods of Studying Social Behavior. Person Perception: Concept, Determinants of Impression Formation.
Year -Second Semester: Third	
Paper-1	
Subject:-Psychology	
Course Title:-Lab Work and Measurement of Social Behavior	
Course Code: - A090302P Credit: 02	
CO1	Students will be exposed to the mixture of skills such as how to conduct a psychological experiment for understanding social behavior as well as psychological measurements and scientific reporting of the data.
CO2	Measurement of Attitude/ Interpersonal Attraction.Measurement of Helping Behavior/ Prejudice.
CO3	Conduct an experiment on Attribution/Aggression/Impression Formation.Conduct an experiment on Social Facilitation/ Conformity/ Compliance.

Year- Second Semester- Fourth	
Subject:- Psychology	
Paper-1	
Course Title:-Abnormal Psychology	
Course Code: - A090401T	
Credit:04	
CO1	The students will be able to understand criteria of abnormality and one's own behavior and behavior of others.
CO2	By applying the knowledge of assessment, diagnosis, classification system and DSM categories, the learners' will develop the sensitivity towards individual diversity and various approaches to the diagnosis and treatment of psychological disorders. Summarize clinical features of symptoms, etiology and valid and reliable treatment of diagnostic categories of mental health disorders.
CO3	Abnormal Psychology: Concept and Criteria of Abnormality, Classification of Abnormality (DSM V): An Introduction. Anxiety Disorders: Clinical Picture and Etiology:. Generalized Anxiety Disorder (GAD), Phobia, Panic Disorder and Obsessive Compulsive Disorder (OCD).

Year -Second		Semester: Fourth
Paper-1		
Subject:-Psychology		
Course Title:-Assessment/Testing		
Course Code: - A090402P Credit: 02		
CO1	At the end of the course, the students will be imparted a variety of proficiency to conduct the screening and assessment of psychological tools for examining developmental issues and disorders.	
CO2	The practicum of case study will let the students learn and execute an in depth investigation of a single person, group, event or community.	
CO3	Administration, Scoring and Interpretation of any anxiety test. Administration, Scoring and Interpretation of any test of any Neuro psychological test/Cognitive function test .	

Year-Third		
Subject:- Psychology		
Paper-1		
Course Title:- Psychological Assessment and Statistics		
Course Code: - 329-N		
CO1	It equips students with knowledge of psychometric principles, various assessment techniques, and ethical considerations.	
CO2	It develops proficiency in descriptive and inferential statistics, as well as practical skills in using statistical software.	
CO3	Students learn to design research studies, collect and analyze data, and write comprehensive reports.	
CO4	Critical evaluation skills and hands-on practice with psychological tests are emphasized.	

Year-Third		
Subject:- Psychology		
Paper-2		
Course Title:- Personality		
Course Code: - 330-N		
CO1	It provides an in-depth understanding of major personality theories, including psychoanalytic, trait, humanistic, behavioral, and cognitive approaches.	
CO2	Students learn various personality assessment methods and their psychometric properties.	

CO3	The course emphasizes practical application through case studies and real-life scenarios.
CO4	Research skills in personality psychology are developed, including research design and data analysis.
CO5	Critical evaluation and ethical considerations in personality assessment and research are also covered.

Year-Third

Subject:- Psychology

Paper-3(Optional) B

Course Title:- Health Psychology

Course Code: - 332-N

CO1	It provides an understanding of major health psychology theories and the mind-body connection.
CO2	Students learn how behaviors, stress, and coping strategies impact health.
CO3	The course covers health promotion, disease prevention, and chronic illness management strategies.
CO4	Research methods and data analysis in health psychology are emphasized.
CO5	Students apply concepts to real-world situations and learn to critically evaluate research and ethical issues in the field.

Year-Third

Subject:- Psychology

Paper-4

Course Title:- Practical

CO1	To familiar with hands-on experience with various psychological assessment tools, including H.S.P.Q/M.P.I, self-concept measures, achievement tests, and value tests.
CO2	To learn the administer, score, and interpret these tests, developing skills in evaluation techniques like rating, ranking, and paired comparisons.
CO3	They gain specialized knowledge in specific tests such as the Word-Association Test, Interest Test, and Job Satisfaction surveys.
CO4	The course emphasizes awareness of health and social issues, including AIDS awareness, health habits, and eco-friendly attitudes.
CO5	Students develop critical thinking skills to evaluate the reliability, validity, and ethical considerations of the tests
CO6	Practical research skills are honed through data collection, analysis, and techniques like cognitive mapping and self-concept assessment.

UG DRAWING AND PAINTING

COURSE OUTCOMES

Year-First Paper-I Subject:-B.A. Fine Art Course Title:-History of Art-1 Course Code:-A140101T Credit: 04		Semester: First
CO1	Primitive art with reference to Indian Painting - Outline of History of man and civilization, with special reference to important cultures i.e. Pre historic Painting.Indus Valley and Jogimara. Karla Caves ,Bhaja Caves,Nasik Caves.	
CO2	Ajanta ,Bagh, Sittanvasal, Badami. Singiriya Caves , Bhagh Caves. Elephanta, Ellora, Mauryan Period ,Sunga Period, Kushan Period, Gupta Period.	
Year-First Paper-II Subject:-B.A. Fine Art Course Title:-Drawing and Color Studies Course Code: -A140102P Credit: 02		Semester: First
CO1	Sketching with various medium like Pencil and Pen and Ink. Still Life - Object Drawing Use of Charcoal Pencil, Color Pencils etc. Water color, Poster color, Color Theory – Color System (RGB, CMYK, and PANTONE), Color Wheel (primary, secondary and tertiary colors), and Color Dimensions.	
CO2	Still Life-Object Nature drawings with Oil Pastel color, Dry Pastel. Two Dimensional Sketching & Drawing.	
Year-First Paper-1 Subject:-B.A.Fine Art Course Title:-Fundamentals of Art Course Code: - A140201T Credit: 04		Semester: Second
CO1	Definition of Art, Basics Elements of Art, Sadanga: The Six Limbs of Indian Art and Paintings, Elements of art : Line , Shape.	
CO2	Color Texture Value,Perspective,Proportion,Balance,Unity.	

Year-First Paper-II Subject:-B.A.Fine Art Course Title:-Drawing and Sketching Course Code: - A140202P Credit:02		Semester: Second
CO1	Sketching Hand and Leg Movement, Sketching Body Movement with Rhythm, Sketching Face Expression.	

CO2	Sketching Face Expression with Monochrome Color, Sketching Body Movement with Monochrome Color.
Year-Second Semester: Third Paper-1 Subject:-B.A.Fine art Course Title:-History of Indian Sculpture Art Course Code: -A140301T Credit: 04	
CO1	Bronze age sculpture, Pre-Mauryan art , Art of the Mauryan Period, Art of the Shunga period , Satavahana art.
CO2	Early South India Kushanaart, Art of Mathura,Gandharan art.
CO3	Gupta period,Medieval, c. 600onwards, Yakshaand YakshiniSculpture.
Year-Second Semester: Third Paper-II Subject:-B.A.Fine Art CourseTitle:-Still Life with Colour Course Code: - A140302P Credit: 02	
CO1	Sketching object with pencil drawing and shading, Sketching objects with watercolor.
CO2	Old master copy work based on subject of still life, creative still life with water color, creative still life with acrylic.

Year-Second Semester: Fourth Paper-1 Subject:- B.A. Fine Art Course Title:- Aesthetics Course Code:-A140401T Credit: 04	
CO1	Aesthetics, Artsand Philosophy,Artand Society,Artand Beauty.
CO2	Concept of Aesthetics in Western Art (Ancient Greek aesthetics,Western), Concept of Aesthetics in Western Art (Medieval aesthetics, German writers) Concept of Aesthetics in Indian Art.
CO3	Rasas in the Arts History,Natyashastra.Indian Philosopher ofArt.

Year-Second Paper-II Subject:-B.A.Fine Art Course Title:-Photography Course Code: A140402P Credit: 02		Semester: Fourth
CO1	Understanding Indoor & outdoor lighting; Camera controls- Aperture, shutter speed, focus. Advertising Photography(Product)- USPofa product should reflect in the composition. Arrangement of the product with props and set. Minimum 05 photographs (size 8x12 inch)	
CO2	Photo feature with minimum 10 photographs (size 8x12 inch) on subjects like Historical monuments, Fort, Museum, Picnic Spot, Temple and its surroundings etc.	
CO3	Micro Photography on subjects like Jewellery, Stationary, Micro Objects etc. Photo feature with minimum10 photographs (size 8x12 inch) on Live Models and Human Expression	

Year-Third Paper-1 Subject:- B.A. Fine Art Course Title:-History of Indian Architecture Course Code: - A140501T Credit: 04		Semester: Five
CO1	Indus Valley Civilization(2600BCE–1900BCE),Ancient Indian architecture, Buddhist architecture, and Indian rock-cut architecture.	
CO2	Gupta architecture, Hindu temple architecture,Jain architecture.	
CO3	Indo-Islamic architecture, Mughal architecture, Architecture of Rajasthan.	

Year-Third Paper-II Subject:-B.A.Fine Art Course Title:-History of Indian Art-II Course Code: -A140502P Credit: 04		Semester: Five
CO1	Pala Style of Painting, Apabharnsh Style of Painting, Thanjavur Painting, Hill painting style, Jain style Painting, Mughal style Painting.	
CO2	Rajputana style Painting Bikaner School Bundi-Kota Kalam SchoolJaipur School Kishengarh School.	
CO3	Marwar School Mewar School Raagamala School Amberand Jaipur.	

Year-Third Paper-III Subject:-B.A.Fine Art Course Title:-Head Study with Pencil and Colour both Course Code: - A140503P Credit: 02		Semester: Five
CO1	Head Study with pencil drawing and shading ,Head Studywithwatercolor.	
CO2	Old master copy work based on subject of Head Study.	
CO3	Creative Head Study with water color and photocolor,CreativeHead Study with acrylic and oil color.	

Year-Third Paper-IV Subject:-B.A.Fine Art Course Title:-Copy & Study from old Masters Course Code: - A140504P Credit: 03		Semester: Five
CO1	Raja Ravi Verma , Avnindra Nath Thakur, Amrita Shergill, Jamini Roy, Leonardo da Vinci ,Titian, Caravaggio,Peter Paul Rubens, Willem Claesz, Vincent Van Gogh.	

Year-Third Paper-I Subject:-B.A. Fine Art Course Title:-Renaissance Period in Indian Art Course Code: -A140601T Credit: 04		Semester: Sixth
CO1	Paintings of Kalighat, Company School,Bengal SchoolandArtist (Abanindranath Tagore,NandalalBose,M.A.RChughtai,SunayaniDevi ,AsitKumarHaldar,SudhirKhastgir,KshitindranathMajumdar).	
CO2	RajaRaviVarma,NewMethodArtists(JaminiRoy,AmritaShergill,Ravindranath Thakur , Gagnendra nath Thakur).	
CO3	ContemporaryArt Movement inIndia, HistoryofArt Academy in India, Indian Modern Art and Artist.	

Year-Third Paper-II Subject:-B.A.FineArt Course Title:-Modern Indian Art and Artist Course Code: -A140602T Credit: 04		Semester: Sixth
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CO1	Paintings of Kalighat, Company style, Bengalschool and artist, Raja Ravi Varma, New- method artists, Modern art.
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Year-Third Paper-III Subject:-B.A. Fine Art Course Title:-Composition Course Code: - A140603P	Semester: Sixth Credit: 02
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CO1	Composition with pencil and seeding, Composition with watercolor, Composition with Oil Color, Composition with acrylic, Creative Composition.
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Year-Third Paper-IV Subject:-B.A. Fine Art Course Title:-LandScape Course Code:-A140604P	Semester: Sixth Credit: 03
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CO1	Land Scape with pencil and seeding, Land Scape with watercolor, Land Scape with Oil Color, Land Scape with acrylic, Creative Land Scape.
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UG POLITICAL SCIENCE

COURSE OUTCOMES

CERTIFICATE IN POLITICAL SCIENCE

Year -First Paper-1 Subject:- Political Science Course Title:- Indian National Movement and Constitution of India Course Code: - A060101T	Semester: First Credit: 06
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CO1	Acquaintance of the Inspirations of Indian National Movement & Constitution is indispensable for as student to make a sense of Indian Political System. The course is designed to provide a overview of Indian freedom Struggle and key concepts of the Indian constitution to the student, which would evolve him into a conscientious citizen
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CO2	The course is designed to provide an overview of Indian freedom Struggle and key concepts of the Indian constitution to the student, which would evolve him into a conscientious citizen.
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Year -First Paper-2 Subject:-Political Science Course Title:- Awareness of Rights & Laws Course Code: - A060102P Credit: 02		Semester: First
CO1	This paper intend to arm the student with basic digital and legal awareness where by the student can leave it this in the job market.	
CO2	It also intends to make the student aware of his basic legal rights which would help him to stand up and help others.	
Year -First Paper-1 Subject:- Political Science Course Title:- Political Theory & Concepts Course Code: - A060201T Credit: 06		Semester: Second
CO1	Understanding Political Theory is integral and indispensable for a comprehensive and critical study of political science.	
CO2	The course is designed to train a student in the fundamental issues of Political Theory which is relevant for any in depth study and research.	

DIPLOMA IN POLITICAL SCIENCE

Year -Second Paper-1 Subject:- Political Science Course Title:- Political Process in India Course Code: - A060301T Credit: 04		Semester: Third
CO1	Study of the functioning of Indian democratic system is essential for a comprehensive understanding of the Indian political system.	
CO2	The courses designed to train and acclimatize the student with the Indian political system in action and explain the working relationship between citizens and state and among various units of the State.	
CO3	The student would be able to appreciate that trajectory of the Indian political system since independence.	
Year -Second Paper-2 Subject:- Political Science Course Title:- Field Work Tradition In Social Sciences Course Code: - A060302P Credit: 02		Semester: Third
CO1	This paper intends to train students in carrying out empirical studies and field work which would help him in research.	

CO2	This would sensitize him to the precautions that is required to carry a empirical study on socially relevant topics.
Year -Second Paper-1 Subject:- Political Science Course Title:- Western Political Thought Course Code: - A060401T Credit: 06	
CO1	This course introduces the students to the ancient, medieval and modern political thinking in the West.
CO2	This would help them understand the manner in which ideas pertaining to ideal state, kingship, duties of the ruler and the ruled, rights Liberty, equality and Justice have evolved over a period of time.

BACHELOR DEGREE IN POLITICAL SCIENCE

Year -Third Paper-1 Subject:- Political Science Course Title:- Comparative Government and Politics(UK, USA, Switzerland and China) Course Code: - A060501T Credit: 04	
CO1	Politics is the mirror of the society. This paper will help the student in for the ring his understanding of the word around.
CO2	This would help him to appreciate other systems and make him critically analyze the pros and cons of the systems.
CO3	Comparison is widely used method of scientific knowledge. This would help the student to find out why a certain system is appropriate and suitable to a given society.
Year -Third Paper-1 Subject:- Political Science Course Title:- Principles of Public Administration Course Code: - A060502T Credit:04	
CO1	Administration being essential to every organization, this course AIIMS to acquaint a student with fundamentals of public administration to.
CO2	This would provide him and inside regarding the principles of administration in general and help him to bring out the best from existing set up.

CO3	This would help him to prepare for administrative examinations too.
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Year -Third		Semester: Fifth
Paper-III		
Subject:- Political Science		
Course Title:- Public policy Formulation and Administration in India		
Course Code: - A060503P Credit: 02		

CO1	It aims to provide interface between public policy and administration in India.
CO2	The essence of this paper appreciates the transition of governing philosophy into programs and policies.
CO3	Students will be able understand political process as well as policy formulation process and the difficulties in implementation programs and policies promises in manifestoes.

Year -Third		Semester: Fifth
Paper-III		
Subject:- Political Science Course Title:- Project Work I		
Course Code: - A060504R Credit: 03		

CO1	This paper intend to develop a comprehensive insight in the students so that given and opportunities they can initiate a minor research proposal or attempt on my dissertation on their area of interest.
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Year -Third		Semester: Sixth
Paper-I		
Subject:- Political Science		
Course Title:- Indian Political Thought		
Course Code: - A060601T Credit: 05		

CO1	This course is to familiarize the students with the larger political and social thinking and ideas in Ancient, medieval and Modern India.
CO2	Designed in a way to help students engage with various ideological dispensations that came to shaped the normative thinking of India.

Year: Third		Semester : Sixth
Paper-II		
Subject: Political Science		
Course Title: International Relations & Politics		
Course Code: - A060602T Credit: 05		
CO1	This course seeks to equips students the basic tools for understanding international relations.	
CO2	It also introduces major events and developments that have shaped the contemporary International system.	

CO3	It aims to capture the changing dynamics of the international politics by taking up burning and relevant issues which have potential to alter its contours.
Year -Third Semester: Sixth Paper-III Subject:- Political Science Course Title:- Project Work 2 Course Code: - A060603R Credit: 03	
CO1	This paper intense to develop a comprehensive insight in the students so that given an opportunity they can initiate a minor research proposal or attempt a minor dissertation on their area of interest.

UG Music Vocal

Course Outcomes (COs)

Year-First Semester: First Paper-I Subject:-Music Vocal Course Title:-Introduction to Indian Music Course Code:-A320101T Credit:04	
CO1	On the successful completion of Introduction to Indian Music students will develop a strong foundation on the basic understanding of the Indian Music.
Year-First Semester: First Paper-I Subject:-Music Vocal Course Title:-:Study of Ragasand Taals Course Code:-A320102P Credit:02	
CO1	This paper focuses on the practical fundamentals of perform a Raag on stage wirth Vilambt and Drut Khayal. They willable to perform Tarana, Bhajan, Geet and gazal also. Students will understand the concept to fLay and Layakari.
Year-First Semester: Second Paper-I Subject:-Music Vocal Course Title:-Critical Study of Ragas and Taals Course Code:-A320201P Credit: 04	

CO1	This paper focuses on the practical fundamentals of perform a Raag on stage with Vilambit and Drut Khayal. They will be able to perform Tarana, Bhajan, Geet and gazal also. Students will understand the concept of Lay and Layakari.
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Year-First		Semester: Second
Paper-II		
Subject:-Music Vocal		
Course Title:-History of Indian Music		
Course Code:-A320202T Credit:02		
CO1	The focus of this paper is the student will have acquainted with rich cultural heritage of Indian music. This course will help the students to know the rich history of Indian music from the Vedic age.	
Year-Second		Semester: Third
Paper-1		
Subject:-Music Vocal		
Course Title:-Social Contribution of Ancient, Medieval and Modern Scholars to Indian Music		
Course Code:-A320301T Credit:04		
CO1	The paper focuses on the contribution of scholars to Indian Music from Ancient to Modern period. Students will be able to understand development of Indian Music.	
Year-Second		Semester: Third
Paper-I		
Subject:-Music Vocal		
Course Title:-Study of Ragas and Taals		
Course Code:-A320302P Credit: 02		
CO1	The focus of this paper, is the student will get know how to perform raagmala with alap and taan, They will get an idea to perform a raag more beautifully with different alap-taan. They also will have acquainted with semi classical style dadra.	
Year-Second		Semester: Fourth
Paper-1		
Subject:-Music Vocal		
Course Title:-Critical study of Ragas and Taals		
Course Code:-A320401P Credit: 04		
CO1	On the successful completion of this paper student will get a brief idea about Dhamar gayan shaili. They will be able to perform Dhrupad with Layakari as well as Kajri, Chaiti and Dadra.	

Year-Second Semester: Fourth Paper-II Subject:-Music Vocal Course Title:- Notation system, Scales and Time signature Course Code:-A320402T Credit: 02	
CO1	The paper focuses on the notation system of Indian and western music. Student will be able to understand time signature and how to write Hindustani taal in staff notation.
Year-Third Semester: Five Paper-I Subject:-Music Vocal Course Title:-Science of Western Music, Style of Indian Music Course Code:-A320501T Credit: 04	
CO1	The paper deals with the science of western music, style of Indian music. The purpose of this paper is to give knowledge to understand Dhamar, Thumri, Tappa, Dadra, Ashtapadi, Hori etc. Student will be able to explain Alha, Birha, Pandwani, Raamleela and Raasleela.
Year-Third Semester: Five Paper-I Subject:-Music Vocal Course Title:- Critical study of Ragas and Taals Course Code:-A320502P Credit:04	
CO1	This section focuses on practical knowledge of Trivat, Chaturang, Hori, Kajri, Chaiti. The purpose of this section is to give an idea to students about how to perform on stage beautifully.
Year-Third Semester: Five Paper-II Subject:-Music Vocal Course Title:-Applied theory of Ragas and Taals Course Code:-A320503T Credit:02	
CO1	This paper provides a practice on the theoretical and analytical study of Ragas and Taals. Student will get more aware with comparative study of Ragas and Taals.

Year-Third Paper-III Subject:-Music Vocal Course Title:-Study of Regional folk music and Report Writing Course Code:-A320504R Credit: 03	Semester: Five
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CO1	This section will impart knowledge to the students in the context of culturally famous local folk music, so that they can get information and essence of individuality about the cultural heritage of Indian music around them.
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Year-Third Paper-III Subject:-Music Vocal Course Title:-Study of Gharana,RavindrasangeetandCarnaticMusic CourseCode:A320601T Credit: 04	Semester: Sixth
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CO1	The paper focus on the Gharana tradition of Indian music, Ravindra sangeet and Carnatic music.The purpose of this paper to give knowledge to understand Ravindra sangeet and Carnatic music in brief.
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Year-Third Paper-III Subject:-Music Vocal Course Title:-Critical study of Ragasand Taals Course Code:-A320602P Credit: 04	Semester: Sixth
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CO1	This section focus on Practical knowledge of Trivat, Chaturang, Hori, Kajri, Chaiti. The purpose of this section is to give an idea to students about how to perform on stage beautifully.
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Year-Third Paper-III Subject:-Music Vocal Course Title:-Applied theory Ragasand Taals Course Code:-A320603T Credit: 02	Semester: Sixth
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CO1	This paper provides a practice on the theoretical and analytical study of Ragas and Taals. Student will get more aware with coparativ study of Ragas and Taals.
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Year-Third Paper-III Subject:-Music Vocal Course Title:- Report writing on reputed Artist of Indian Classical Music Course Code:-A320604R Credit:03	Semester: Sixth
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CO1	This section will helpful for student to know how to perform on stage. From the music festival visit, students know the methods of collection, documentation, display technique, conservation technique etc.
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Degree in Bachelor of Science

PROGRAMME OUTCOMES (POs)

The purpose of the undergraduate mathematics program is to provide the key knowledge base and computer lab resources to prepare students for careers as professionals in various institutions. This certificate course is definitely going to prepare the students for various fields of mathematics and will give an insight into all the branches of maths and enable our students to join the knowledge and available opportunities related to mathematics in the government and private sectors.

Physics is a basic science; it attempts to explain the natural phenomenon in as simple a manner as possible. The present programme integrates six experimental physics papers focusing on various aspects of modern technology based equipments.

The new curriculum of B.Sc. in Science (Botany) offers essential knowledge and technical skills to study plants in a holistic manner.

The purpose of the undergraduate chemistry program is to provide the key knowledge base and laboratory resources to prepare students for careers as professionals in various industries and research institutions.

The purpose of the undergraduate Zoology program is to provide the key knowledge base and laboratory resources to prepare students for careers as professionals in various educational and research institutions

PO1.It is to give foundation knowledge for the students to understand basics of mathematics including applied aspect for the same,

PO2. It is to develop enhanced quantitative skills and pursuing higher mathematics and research as well.

PO3.Students will be able to develop solution oriented approach towards various issues related to their environment.

PO4.Students will become employable in various govt. and private sectors.

PO5. Scientific temper in general and mathematical temper in particular will be developed in students.

PO6. The main aim of this programme is to help cultivate the love for Nature and its manifestations, to transmit the methods of science (the contents are only the means) to observe things around, to generalize, to do intelligent guessing, to formulate a theory & model, and at the same time, to hold an element of doubt and thereby to hope to modify it in terms of future experience and thus to practice a pragmatic outlook.

PO7. The programme intends to nurture the proficiency in functional areas of Physics, which is in line with the international standards, aimed at realizing the goals towards skilled India.

PO8. Keeping the application oriented training in mind; this programme aims to give students the competence in the methods and techniques of theoretical, experimental and computational aspects

of Physics so as to achieve an overall understanding of the subject for holistic development. This will cultivate in specific application oriented training leading to their goals of employment.

PO9. The Bachelor's Project (Industrial Training / Survey / Dissertation) is intended to give an essence of research work for excellence in explicit areas. It integrates with specific job requirements / opportunities and provides a foundation for Bachelor (Research) Programmes.

PO10. Syllabus with a combination of general and specialized education shall introduce the concepts of breadth and depth in learning

PO11. The students will be able to produce competent plant biologists who can employ and implement their gained knowledge in basic and applied aspects that will profoundly influence the prevailing paradigm of agriculture, industry, healthcare and environment to provide sustainable development.

PO12. The students will be able to critical thinking, development of scientific attitude, handling of problems and generating solutions, improve practical skills, enhance communication skill, social interaction, increase awareness in judicious use of plant resources by recognizing the ethical value system.

PO13. The students will be able to enough for doing jobs in Govt. and private sectors of academia, research and industry along with graduate preparation for national as well as international competitive examinations, especially UGC-CSIR NET, UPSC Civil Services Examination, IFS, NSC, FCI, BSI, FRI etc.

PO14. The students will be able to generate self- entrepreneurship and self-employability.

PO15. Students will have a firm foundation in the fundamentals and application of current chemical and scientific theories including those in analytical, Inorganic, Organic and Physical Chemistries.

PO16. Students will be able to design and carry out scientific experiments as well as accurately record and analyze the results of such experiments.

PO17. Students will be skilled in problem solving, critical thinking and analytical reasoning as applied to scientific problems

PO18. Students will be able to explore new areas of research in both chemistry and allied fields of science and technology

PO19. Students will appreciate the central role of chemistry in our society and use this as a basis for ethical behavior in issues facing chemists including an understanding of safe handling of chemicals, environmental issues and key issues facing our society in energy, health and medicine.

PO20. Students will be able to explain why chemistry is an integral activity for addressing social, economic, and environmental problems

PO21. Students will be able to function as a member of an interdisciplinary problem solving team

PO22. The undergraduate Zoology programme has been designed in such a way so that the students get the flavor of both classical and modern aspects of Zoology/Animal Sciences. I

PO23. It aims to enable the students to study animal diversity in Indian subcontinent, environmental science and behavioral ecology

PO24. The modern areas including cell biology and genetics, molecular biology, biochemistry, physiology followed by biostatistics, Evolutionary biology, bioinformatics and genetic engineering have been included to make the study of animals more interesting and relevant to human studies which is the requirement in recent times.

PO25. The lab courses have been designed in such a way that students will be trained to join public or private labs.

UG PHYSICS

COURSE OUTCOMES (COS)

CERTIFICATE –IN BASIS PHYSICS & SEMICONDUCTOR DEVICES

Year: First		Semester: First
Paper-1 (Theory)		
Course Title: Mathematical Physics & Newtonian Mechanics		
Course Code: B010101T		Credit: 04
CO1	Recognize the difference between scalars, vectors, pseudo-scalars and pseudo-vectors.	
CO2	Understand the physical interpretation of gradient, divergence and curl.	
CO3	Comprehend the difference and connection between Cartesian, spherical and cylindrical coordinate systems.	
CO4	Know the meaning of 4-vectors, Kronecker delta and Epsilon (Levi Civita) tensors.	
CO5	Study the origin of pseudo forces in rotating frame.	
CO6	Study the response of the classical systems to external forces and their elastic deformation.	
CO7	Understand the dynamics of planetary motion and the working of Global Positioning System (GPS).	
CO8	Comprehend the different features of Simple Harmonic Motion (SHM) and wave propagation.	
Year: First		Semester: First
Paper-2 (Practical)		
Course Title: Mechanical Properties of Matter		
Course Code: B010102P		Credit: 02
CO1	Experimental physics has the most striking impact on the industry wherever the instruments are used to study and determine the mechanical properties.	
CO2	Measurement precision and perfection is achieved through Lab Experiments.	
CO3	Online Virtual Lab Experiments give an insight in simulation techniques and provide a basis for modeling.	
Year: First		Semester: Second
Paper-1 (Theory)		
Course Title: Thermal Physics & Semiconductor Devices		
Course Code: B010201T		Credit: 04
CO1	Recognize the difference between reversible and irreversible processes.	
CO2	Understand the physical significance of thermodynamical potentials.	

CO3	Comprehend the kinetic model of gases w.r.t. various gas laws
CO4	Study the implementations and limitations of fundamental radiation laws.
CO5	Utility of AC bridges.
CO6	Recognize the basic components of electronic devices.
CO7	Design simple electronic circuits.
CO8	Understand the applications of various electronic instruments.
Year: First	
Semester: Second	
Paper-2 (Practical)	
Course Title: Thermal Properties of Matter & Electronic Circuits	
Course Code: B010202P Credit: 02	
CO1	Experimental physics has the most striking impact on the industry wherever the instruments are used to study and determine the thermal and electronic properties.
CO2	Measurement precision and perfection is achieved through Lab Experiments. Online Virtual Lab Experiments give an insight in simulation techniques and provide a basis for modeling.

DIPLOMA- IN APPLIED PHYSICS WITH ELECTRONICS

Year: Second	
Semester: Third	
Paper-1 (Theory)	
Course Title: Electromagnetic Theory & Modern Optics	
Course Code: B010301T Credit: 04	
CO1	Better understanding of electrical and magnetic phenomenon in daily life.
CO2	To troubleshoot simple problems related to electrical devices.
CO3	Comprehend the powerful applications of ballistic galvanometer.
CO4	Study the fundamental physics behind reflection and refraction of light (electromagnetic waves).
CO5	Study the working and applications of Michelson and Fabry-Perot interferometers.
CO6	Recognize the difference between Fresnel's and Fraunhofer's class of diffraction.
CO7	Comprehend the use of polarimeters.
CO8	Study the characteristics and uses of lasers
Year: Second	
Semester: Third	
Paper-2 (Practical)	
Course Title: Demonstrative Aspects of Electricity & Magnetism	
Course Code: B010302P Credit: 02	
CO1	Experimental physics has the most striking impact on the industry wherever the instruments are used to study and determine the electric and magnetic properties.
CO2	Measurement precision and perfection is achieved through Lab Experiments.
CO3	Online Virtual Lab Experiments give an insight in simulation techniques and provide a basis for modeling.

Year: Second		Semester: Fourth
Paper-1 (Theory)		
Course Title: Perspectives of Modern Physics & Basic Electronics		
Course Code: B010401T Credit: 04		
CO1	Recognize the difference between the structure of space & time in Newtonian & Relativistic mechanics.	
CO2	Understand the physical significance of consequences of Lorentz transformation equations.	
CO3	Comprehend the wave-particle duality.	
CO4	Develop an understanding of the foundational aspects of Quantum Mechanics.	
CO5	Study the comparison between various biasing techniques.	
CO6	Study the classification of amplifiers.	
CO7	Comprehend the use of feedback and oscillators.	
CO8	Comprehend the theory and working of optical fibers along with its applications.	
Year: Second		Semester: Fourth
Paper-2 (Practical)		
Course Title: : Basic Electronics Instrumentation		
Course Code: B010402P Credit: 02		
CO1	Basic Electronics instrumentation has the most striking impact on the industry wherever the components / instruments are used to study and determine the electronic properties.	
CO2	Measurement precision and perfection is achieved through Lab Experiments.	
CO3	Online Virtual Lab Experiments give an insight in simulation techniques and provide a basis for modeling.	

DEGREE-IN BACHLOR OF SCIENCE

Year : Third		Semester: Fifth
Paper-1 (Theory)		
Course Title: Classical & Statistical Mechanics		
Course Code: B010501T Credit: 04		
CO1	Understand the concepts of generalized coordinates and D'Alembert's principle.	
CO2	Understand the Lagrangian dynamics and the importance of cyclic coordinates.	
CO3	Comprehend the difference between Lagrangian and Hamiltonian dynamics.	
CO4	Study the important features of central force and its application in Kepler's problem.	
CO5	Recognize the difference between macrostate and microstate.	
CO6	Comprehend the concept of ensembles.	
CO7	Understand the classical and quantum statistical distribution laws.	
CO8	Study the applications of statistical distribution laws.	
Year : Third		Semester: Fifth
Paper-2 (Theory)		
Course Title: Quantum Mechanics & Spectroscopy		
Course Code: B010502T Credit: 04		
CO1	Understand the significance of operator formalism in Quantum mechanics.	
CO2	Study the eigen and expectation value methods.	
CO3	Understand the basis and interpretation of Uncertainty principle.	
CO4	Develop the technique of solving Schrodinger equation for 1D and 3D problems.	

CO5	Comprehend the success of Vector atomic model in the theory of Atomic spectra.
CO6	Study the different aspects of spectra of Group I & II elements.
CO7	Study the production and applications of X-rays.
CO8	Develop an understanding of the fundamental aspects of Molecular spectra.
Year : Third	
Semester: Fifth	
Paper-3 (Practical)	
Course Title: Demonstrative Aspects of Optics & Lasers	
Course Code: B010503P Credit: 02	
CO1	Experimental physics has the most striking impact on the industry wherever the instruments are used to study and determine the optical properties.
CO2	Measurement precision and perfection is achieved through Lab Experiments.
CO3	Online Virtual Lab Experiments give an insight in simulation techniques and provide a basis for modeling.
Year : Third	
Semester: Sixth	
Paper-1 (Theory)	
Course Title: Solid State & Nuclear Physics	
Course Code: B010601T Credit: 04	
CO1	Understand the crystal geometry w.r.t. symmetry operations.
CO2	Comprehend the power of X-ray diffraction and the concept of reciprocal lattice.
CO3	Study various properties based on crystal bindings.
CO4	Recognize the importance of Free Electron & Band theories in understanding the crystal properties.
CO5	Study the salient features of nuclear forces & radioactive decays.
CO6	Understand the importance of nuclear models & nuclear reactions.
CO7	Comprehend the working and applications of nuclear accelerators and detectors.
CO8	Understand the classification and properties of basic building blocks of nature.
Year : Third	
Semester: Sixth	
Paper-2 (Theory)	
Course Title: Analog & Digital Principles & Applications	
Course Code: B010602T Credit: 04	
CO1	Study the drift and diffusion of charge carriers in a semiconductor.
CO2	Understand the Two-Port model of a transistor.
CO3	Study the working, properties and uses of FETs.
CO4	Comprehend the design and operations of SCRs and UJTs.
CO5	Understand various number systems and binary codes.
CO6	Familiarize with binary arithmetic.
CO7	Study the working and properties of various logic gates.
CO8	Comprehend the design of combinational and sequential circuits.
Year : Third	
Semester: Sixth	
Paper-3 (Practical)	
Course Title: Analog & Digital Circuits	
Course Code: B010603P Credit: 02	
CO1	Analog & digital circuits have the most striking impact on the industry wherever the electronics instruments are used to study and determine the electronic properties.
CO2	Measurement precision and perfection is achieved through Lab Experiments.
CO3	Online Virtual Lab Experiments give an insight in simulation techniques and provide a basis for modeling.

UG CHEMISTRY

COURSE OUTCOMES

CERTIFICATE –IN BIOORGANIC AND MEDICAL CHEMISTRY

Year: First Semester: First	
Paper-1(Theory)	
Course Title: Fundamentals of Chemistry	
CourseCode:B020101T Credit: 04	
CO1	To study about the molecular geometries, physical and chemical properties of the molecules.
CO2	Understanding current bonding models for simple inorganic and organic molecules In order to predict structures and important bonding parameters.
CO3	The chapter Recapitulation of basics of organic chemistry gives them ostprimary and utmost important knowledge and concepts of organic chemistry.
CO4	This course gives abroad ertheoretical picture in multiplest ages in an overall Chemical reaction.Itdescribesreactiveintermediates,transitionstatesandstatesof allthebondsbrokenandformed.Itenablestounderstandthereactants,catalyst, stereo chemistry and major and minor products of any organic reaction.
CO5	It describes the types of reactions and the Kinetic and thermodynamic aspects one should know for carrying out any reaction and the way show there action mechanism can be determined.
CO6	The chapters Stereochemistry gives the clear picture of two-dimensional and three-Dimensional structure of the molecules, and their role in reaction mechanism.
Year: First Semester: First	
Paper-2(Practical)	
Course Title :Quantitative Analysis	
CourseCode:B020102P Credit:02	
CO1	To study about potability tests of water samples.
CO2	To gain knowledge about estimation of metalionsin samples.
CO3	To understand the methods of estimation of alkali and acid contents in samples.
CO4	To understand the methods of estimation of inorganic salts and hydrated water in Samples.

Year: First		Semester: Second
Paper-1(Theory)		
Course Title: Bioorganic and Materials Chemistry		
CourseCode:B020201T Credit:04		
CO1	To study about the biomolecules and how these molecules perform or trigger Important biochemical reactions in living organisms.	
CO2	Understanding the physiological function that regulates the proper growth and Development of a human body	
CO3	Introduction the students with basic experimental understanding of carbohydrates, aminoacids ,proteins,nucleic acids and medicinal chemistry.	
CO4	The understanding of spacelattice,unitcells,Lawsofcrystallography,X-ray diffraction bycrystals,Derivation of Braggequation, Determination of crystal structure of NaCl, KCl and CsCl (powder method).	
CO5	Introduction to polymers, kinetics and mechanism of polymerization.	
CO6	IntroductiontosyntheticDyes:Colorandconstitution(electronicConcept), Classification of dyes, Chemistry and synthesis of Methylorange,Congored, Malachite green, crystal violet, phenolphthalein, fluorescein, Alizarin and Indigo.	
Year: First		Semester: Second
Paper-2(Practical)		
Course Title: Biochemical Analysis		
CourseCode:B020202P Credit: 02		
CO1	Understanding basic qualitative and quantitative experimental knowledge of biomolecules.	
CO2	To understand the synthesis of Simple drug molecules.	

DIPLOMA IN CHEMICAL DYNAMICS AND ANALYTICAL TECHNIQUES

Year: Second		Semester: Third
Paper-1(Theory)		
Course Title: Chemical Dynamics & Coordination Chemistry		
CourseCode:B020301T Credit: 04		
CO1	Understanding the three states of matter and to describe the different physical Properties of each state of matter.	
CO2	To get the idea of chemical kinetics, theories of chemical kinetics and chemical equilibrium.	
CO3	Understanding the basic concepts of coordination chemistry, theories of coordination Chemistry and spectra as well as magnetism of complexes.	
Year: Second		Semester: Third
Paper-2(Practical)		
Course Title: Physical Analysis		
CourseCode:B020302P Credit: 02		
CO1	To learn how to calibrate apparatus and prepare solutions of various concentrations.	
CO2	To get an idea about estimation of components through volumetric analysis.	
CO3	To understand the one and two component phase equilibrium experiments.	
CO4	To understand the determination of viscosity, surface tension, boiling point etc. of given liquid.	

Year: Second		Semester: Fourth
Paper-1(Theory)		
Course Title: Quantum Mechanics and Analytical Techniques		
CourseCode:B020401T Credit: 04		
CO1	To gain understanding of how to determine the structure of organic molecules using IR and NMR spectroscopic techniques.	
CO2	To develop basic skills required for purification, solvent extraction,TLC and column Chromatography	
CO3	Understanding atomic structure, elementary quantum mechanics,wave function and its significance; Schrodinger wave equation and its applications.	
CO4	TogainknowledgeaboutMolecularorbitaltheory,basicideas–Criteriaforforming Molecular orbital from atomic orbitals.	
CO5	To understand about Molecular Spectroscopy,Rotational Spectrum, vibrational and Electronic Spectrum.	
CO6	To gain knowledge about photochemistry and kinetics of photochemical reaction.	
Year: Second		Semester: Fourth
Paper-2(Practical)		
Course Title: Instrumental Analysis		
CourseCode:B020402P Credit: 02		
CO1	To gain the understanding of how to determine the structure of organic molecules using IR and NMR spectroscopic techniques.	
CO2	To develop basic skills required for purification,solvent extraction,and TLCand column chromatography.	

DEGREE IN BACHELOR OF SCIENCE

Year: Third		Semester: Fifth
Paper-1(Theory)		
Course Title: Organic Synthesis A		
CourseCode:B020501T Credit: 04		
CO1	To understand the synthesis and chemical properties of aliphatic and aromatic hydrocarbons, alcohols, halides,ethersand epoxides.	
CO2	To understand how to design and synthesize aliphatic and aromatic hydrocarbons.	
CO3	To understand how to convert aliphatic and aromatic hydrocarbons to other Industrially important compounds.	
CO4	To get an idea about functional group interconversion.	
Year: Third		Semester: Fifth
Paper-2(Theory)		
Course Title: Rearrangements and Chemistry of Group Elements		
CourseCode:B020502T Credit: 04		
CO1	To gain analytical aptitude for synthesizing various industrially important compounds.	
CO2	To get detailed knowledge on the elements present in our surroundings, their occurrence in nature. Their position in periodic table, their physical and chemical properties as well as their extraction. This paper also gives detailed understanding of these, p, d and f block elements and their characteristics.	
CO3	To gain knowledge about metalcarbonyls.	

CO4	Understanding the concepts of bioinorganic chemistry.
Year: Third Semester: Fifth	
Paper-3(Practical)	
Course Title: Qualitative Analysis	
CourseCode:B020503P Credit: 02	
CO1	To understand the identification of acidic and basic radicals in inorganic mixtures.
CO2	To learn how to separate organic compounds from mixture.
CO3	To learn about the elemental analysis and functional group analysis inorganic compounds.
CO4	To understand the identification of organic compounds.
Year: Third Semester: Fifth	
Paper-4 (Project)	
Course Title: Research Project	
Course Code: B020504R Credit : 03	
CO1	Developing a research question(s)
CO2	Identifying where the research question(s) fits within existing knowledge, often accomplished through a literature review.
CO3	Writing about, and presenting your findings.
Year: Third Semester: Sixth	
Paper-1(Theory)	
Course Title: Organic Synthesis B	
CourseCode:B020601T Credit:04	
CO1	To get detailed knowledge of synthesis of various class of organic compounds and Functional groups interconversions.
CO2	To study about the natural products and heterocyclic compound
Year: Third Semester: Sixth	
Paper-2(Theory)	
Course Title: Chemical Energetics and Radio Chemistry	
CourseCode:B020602T Credit: 04	
CO1	To understand the laws of thermodynamics and its applications.
CO2	To learn about the phase equilibria of one and two component system.
CO3	To gain knowledge about electrochemistry, ionic equilibrium applications of Conductivity and potentiometric measurements.
CO4	To understand the basic concepts and applications of colligative properties.
CO5	To know about the basic concepts and applications of surface chemistry.
CO6	To get the idea about the basic concepts and applications of radiochemistry.
Year: Third Semester: Sixth	
Paper-3(Practical)	
Course Title: Analytical Methods	
CourseCode:B020603P Credit: 02	
CO1	To know how to quantify the product obtained through gravimetric method.
CO2	To know about determination of R _f values and identification of organic compounds through paper and thin layer chromatography laboratory techniques.
CO3	To know how to perform thermochemical reactions.
Year: Third Semester: Sixth	
Paper-4 (Project)	

Course Title: Research Project	
Course Code: B020604R Credit :03	
CO1	Developing a research question(s)
CO2	Identifying where the research question(s) fits within existing knowledge, often accomplished through a literature review..
CO3	Writing about, and presenting your findings.

UG MATHEMATICS

COURSE OUTCOMES

CERETIFICATE COURSE IN APPLIED MATHEMATICS

Year : First		Semester: First
Paper-1 (Theory)		
Course Title: Differential Calculus & Integral Calculus		
Course Code: B030101T Credit: 04		
CO1	The programme outcome is to give foundation knowledge for the students to understand basics of mathematics including applied aspect for developing enhanced quantitative skills and pursuing higher mathematics and research as well.	
CO2	By the time students complete the course they will have wide ranging application of the subject and have the knowledge of real valued functions such as sequence and series. They will also be able to know about convergence of sequence and series. Also, they have knowledge about curvature, envelope and evolutes and trace curve in polar, Cartesian as well as parametric curves.	
CO3	The main objective of the course is to equip the student with necessary analytic and technical skills. By applying the principles of integral he learns to solve a variety of practical problems in science and engineering	
CO4	The student is equipped with standard concepts and tools at an intermediate to advance level that will serve him well towards taking more advance level course in mathematics.	
Year : First		Semester: First
Paper-2 (Practical)		
Course Title: Practical		
Course Code: B030102P Credit: 02		
CO1	The main objective of the course is to equip the student to plot the different graph and solve the different types of equations by plotting the graph using different computer software such as Mathematica /MATLAB /Maple /Scilab/Maxima etc.	
CO2	After completion of this course student would be able to know the convergence of sequences through plotting, verify Bolzano-Weierstrass theorem through plotting the sequence, Cauchy's root test by plotting n th roots and Ratio test by plotting the ratio of n th and (n + 1)th term.	
CO3	Student would be able to plot Complex numbers and their representations, Operations like addition, subtraction, Multiplication, Division, Modulus and Graphical representation of polar form.	
CO4	Student would be able to perform following task of matrix as Addition, Multiplication, Inverse, Transpose, Determinant, Rank, Eigenvectors, Eigenvalues,	

	Characteristic equation and verification of the Cayley-Hamilton theorem, Solving the systems of linear equations
Year : First Semester: Second	
Paper-1 (Theory)	
Course Title: Matrices and Differential Equations & Geometry	
Course Code: B030201T Credit: 06	
CO1	The subjects of the course are designed in such a way that they focus on developing mathematical skills in algebra, calculus and analysis and give in depth knowledge of geometry, calculus, algebra and other theories.
CO2	The student will be able to find the rank, eigen values of matrices and study the linear homogeneous and non-homogeneous equations. The course in differential equation intends to develop problem solving skills for solving various types of differential equation and geometrical meaning of differential equation.
CO3	The subjects learn and visualize the fundamental ideas about coordinate geometry and learn to describe some of the surface by using analytical geometry.
CO4	On successful completion of the course students have gained knowledge about regular geometrical figures and their properties. They have the foundation for higher course in Geometry.

DIPLOMA IN MATHEMATICS

Year : Second Semester: Third	
Paper-1 (Theory)	
Course Title: Algebra & Mathematical Methods	
Course Code: B030301T Credit: 06	
CO1	Group theory is one of the building blocks of modern algebra. Objective of this course is to introduce students to basic concepts of Group, Ring theory and their properties.
CO2	A student learning this course gets a concept of Group, Ring, Integral Domain and their properties. This course will lead the student to basic course in advanced mathematics and Algebra.
CO3	The course gives emphasis to enhance students' knowledge of functions of two variables, Laplace Transforms, Fourier Series.
CO4	On successful completion of the course students should have knowledge about higher different mathematical methods and will help him in going for higher studies and research
Year : Second Semester: Fourth	
Paper-1 (Theory)	
Course Title: Differential Equation & Mechanics	
Course Code: B030401T credit: 06	
CO1	The objective of this course is to familiarize the students with various methods of solving differential equations, partial differential equations of first order and second order and to have qualitative applications.
CO2	A student doing this course is able to solve differential equations and is able to model problems in nature using ordinary differential equations. After completing this course, a student will be able to take more courses on wave equation, heat equation, diffusion equation, gas dynamics, non linear evolution equation etc. These entire

	courses are important in engineering and industrial applications for solving boundary value problem.
CO3	The object of the paper is to give students knowledge of basic mechanics such as simple harmonic motion, motion under other laws and forces.
CO4	The student, after completing the course can go for higher problems in mechanic such as hydrodynamics, this will be helpful in getting employment in industry.

DEGREE IN MATHEMATICS

Year :Third		Semester: Fifth
Paper-1 (Theory)		
Course Title:Group and Ring Theory & Linear Algebra		
Course Code: B030501T Credit: 05		
CO1	Liner algebra is a basic course in almost all branches of science. The objective of this course is to introduce a student to the basics of linear algebra and some of its applications.	
CO2	Students will be able to know the concepts of group, ring and other related properties which will prepare the students to take up further applications in the relevant fields.	
CO3	The student will use this knowledge in computer science, finance mathematics, industrial mathematics and bio mathematics. After completion of this course students appreciate its interdisciplinary nature.	
Year : Third		Semester: Fifth
Paper-2 (Theory)		
Course Title: Number Theory & Game Theory		
Course Code: B030502T Credit: 05		
CO1	Upon successful completion, students will have the knowledge and skills to solve problems in elementary number theory and also apply elementary number theory to cryptography	
CO2	This course provides an introduction to Game Theory. Game Theory is a mathematical framework which makes possible the analysis of the decision making process of interdependent subjects. It is aimed at explaining and predicting how individuals behave in a specific strategic situation, and therefore help improve decision making.	
CO3	A situation is strategic if the outcome of a decision problem depends on the choices of more than one person. Most decision problems in real life are strategic.	
CO4	To illustrate the concepts, real-world examples, case studies, and classroom experiments might be used.	

Year : Third		Semester: Sixth
Paper-1 (Theory)		
Course Title: Matric spaces & Complex Analysis		
Course Code: B030601T Credit: 04		
CO1	The course is aimed at exposing the students to foundations of analysis which will be useful in understanding various physical phenomena and gives the student the foundation in mathematics.	
CO2	After completion of this course the student will have rigorous and deeper understanding of fundamental concepts in Mathematics. This will be helpful to the student in understanding pure mathematics and in research.	
CO3	Students will be able to know the concepts of metric space, basic concepts and developments of complex analysis which will prepare the students to take up further applications in the relevant fields.	
Year : Third		Semester: Sixth
Paper-2 (Theory)		
Course Title: Numerical Analysis & Operation Research		
Course Code: B030602T Credit: 04		
CO1	The aim of this course is to teach the student the application of various numerical technique for variety of problems occurring in daily life. At the end of the course the student will be able to understand the basic concept of Numerical Analysis and to solve algebraic and differential equation.	
CO2	The main outcome will be that students will be able to handle problems and finding approximated solution. Later he can opt for advance course in Numerical Analysis in higher Mathematics.	
CO3	The student will be able to solve various problems based on convex sets and linear programming. After successful completion of this paper will enable the students to apply the basic concepts of transportation problems and its related problems to apply in further concepts and application of operations research.	
Year : Third		Semester: Sixth
Paper-3 (Practical)		
Course Title: Practical		
Course Code: B030603P Credit: 02		
CO1	The main objective of the course is to equip the student to solve the transcendental and algebraic equations, system of linear equations, ordinary differential equations, Interpolation, Numerical Integration, Method of finding Eigenvalue by Power method (up to 4×4), Fitting a Polynomial Function (up to third degree).	

UG ZOOLOGY

COURSE OUTCOMES

CERTIFICATE COURSE IN MEDICAL DIAGNOSTICS & PUBLIC HEALTH

Year: First Semester: First	
Paper-1 (Theory)	
Course Title: Cytology, Genetics and Infectious Diseases	
Course Code: B050101T Credit: 04	
CO1	To Understand the structure and function of all the cell organelles.
CO2	To know about the chromatin structure and its location.
CO3	To be familiar with the basic principle of life, how a cell divides leading to the growth of an organism and also reproduces to form new organisms.
CO4	To know how one cell communicates with its neighboring cells?
CO5	Understanding the basic principles of genetics and how genes (earlier called factors) are inherited from one generation to another.
CO6	To understand the Mendel's laws and the deviations from conventional patterns of inheritance.
CO7	Comprehend how environment plays an important role by interacting with genetic Factors.
CO8	To know how to detect chromosomal aberrations in humans and study the pattern of inheritance by pedigree analysis in families.
Year: First Semester: First	
Paper-2 (Practical)	
Course Title: Cell Biology & Cytogenetics Lab	
Course Code: B050102P Credit: 02	
CO1	To use simple and compound microscopes.
CO2	To prepare slides and stain them to see the cell organelles.
CO3	To be familiar with the basic principle of life, how a cell divides leading to the growth of an organism and also reproduces to form new organisms.
CO4	To understand the chromosomal aberrations by preparing karyotypes.
CO5	To know how chromosomal aberrations are inherited in humans by pedigree analysis in families.
CO6	To understand the antigen-antibody reaction.

Year: First Semester: Second	
Paper-1 (Theory)	
Course Title: Biochemistry and Physiology	
Course Code: B050201T Credit: 04	
CO1	To develop a deep understanding of structure of biomolecules like proteins, lipids and carbohydrates.
CO2	To understand how simple molecules together form complex macromolecules.
CO3	To understand the thermodynamics of enzyme catalyzed reactions.
CO4	Understanding the mechanisms of energy production at cellular and molecular levels.
CO5	To understand systems biology and various functional components of an organism.
CO6	To explore the complex network of these functional components.

CO7	To comprehend the regulatory mechanisms for maintenance of function in the body.
Year: First	
Semester: Second	
Paper-2 (Practical)	
Course Title: Physiological, Biochemical & Hematology Lab	
Course Code: B050202P/R Credit: 02	
CO1	To understand the structure of biomolecules like proteins, lipids and carbohydrates
CO2	To perform the basic hematological laboratory testing,
CO2	To distinguish the normal and abnormal hematological laboratory findings to predict the diagnosis of hematological disorders and diseases.

DIPLOMA –IN MOLECULAR DIAGNOSTICS AND GENETIC COUNSELLING

Year: Second	
Semester: Third	
Paper-1 (Theory)	
Course Title: Molecular Biology, Bioinstrumentation & Biotechniques	
Course Code: B050301T Credit: 04	
CO1	A detailed and conceptual understanding of molecular processes <i>viz.</i> DNA to trait.
CO2	A clear understanding of the processes of central dogma <i>viz.</i> transcription, translation <i>etc.</i> underlying survival and propagation of life at molecular level.
CO3	Understanding of how genes are ultimately expressed as proteins which are responsible for the structure and function of all organisms.
CO4	Learn how four sequences (3 letter codons) generate the transcripts of life and determine the phenotypes of organisms.
CO5	How genes are regulated differently at different time and place in prokaryotes and eukaryotes.

Year: Second		Semester: Third
Paper-2 (Practical)		
Course Title: Bioinstrumentation & Molecular Biology Lab		
Course Code: B050302P Credit: 02		
CO1	Understand the basic principles of microscopy, working of different types of microscopes.	
CO2	Understand the basic techniques of centrifugation and chromatography for studying cells and separation of biomolecules.	
CO3	Understand the principle of measuring the concentrations of macromolecules in solutions by colorimeter and spectrophotometer and use them in Biochemistry.	
CO4	To learn about some of the commonly used advance DNA testing methods.	
Year: Second		Semester: Fourth
Paper-1 (Theory)		
Course Title: Gene Technology, Immunology and Computational Biology		
Course Code: B050401T Credit: 04		
CO1	To understand the principles of genetic engineering, how genes can be cloned in bacteria and the various technologies involved in it.	
CO2	To know the applications of biotechnology in various fields like agriculture, industry and human health.	
CO3	To have an in depth understanding about Immune System & its mechanisms.	
CO4	Get introduced to DNA testing and utility of genetic engineering in forensic sciences.	
CO5	Get introduced to computers and use of bioinformatics tools.	
CO6	Enable students to get employment in pathology/Hospital.	
CO6	To take up research in biological sciences.	
Year: Second		Semester: Fourth
Paper-2 (Practical)		
Course Title: : Genetic Engineering and Counselling Lab		
Course Code: B050402P/R Credit: 02		
CO1	Understand the principles of genetic engineering with hands-on experiments in mutation detection, testing of infectious diseases like Covid19.	
CO2	Get introduced to DNA testing and utility of genetic engineering in forensic sciences.	
CO3	Apply knowledge and awareness of the basic principles and concepts of biology, computer science and mathematics existing software effectively to extract information from large databases and to use this information in computer modeling	
CO4	Use bioinformatics tools to find out evolutionary/phylogenetic relationship of organisms using gene sequences.	
CO5	Get employment in Hospitals/Diagnostic and forensic labs/Counsel families with genetic disorders.	
CO6	Enable students to take up research in biological sciences.	

DEGREE IN BACHELOR OF SCIENCE

Year: Third		Semester: Fifth
Paper-1 (Theory)		
Course Title: Diversity of Non-Chordates and Economic Zoology		
Course Code: B050501T Credit: 04		
CO1	To demonstrate comprehensive identification abilities of non-chordate diversity	
CO2	To explain structural and functional diversity of non-chordate	
CO3	To explain evolutionary relationship amongst non-chordate groups	
CO4	To Get the employment in different applied sectors	
CO5	Students can start their own business i.e. self employments.	
CO6	Enable students to take up research in Biological Science	
Year: Third		Semester: Fifth
Paper-2 (Theory)		
Course Title: Diversity of Chordates and Comparative Anatomy		
Course Code: B050502T Credit: 04		
CO1	Demonstrate comprehensive identification abilities of chordate diversity	
CO2	Explain structural and functional diversity of chordates	
CO3	Explain evolutionary relationship amongst chordates	
CO4	Take up research in biological sciences.	
Year: Third		Semester: Fifth
Paper-3 (Practical)		
Course Title: Lab on Virtual Dissection, Anatomy, Economic Zoology and Parasitology		
Course Code: B050503P Credit: 02		
CO1	To demonstrate the comprehensive identification abilities of chordate and non-chordates diversity.	
CO2	To explain the structural and functional diversity of chordates and non-chordates.	
CO3	To explain the evolutionary relationship amongst chordates and non-chordates.	
CO4	To Generate self employment.	
CO4	To enable the students to take up research in biological sciences.	
Year: Third		Semester: Sixth
Paper-1 (Theory)		
Course Title: Evolutionary and Developmental Biology		
Course Code: B050601T Credit: 04		
CO1	Understand that by biological evolution we mean that many of the organisms that inhabit the earth today are different from those that inhabited it in the past.	
CO2	Understand that natural selection is one of several processes that can bring about evolution, although it can also promote stability rather than change.	
CO3	Understand how the single cell formed at fertilisation forms an embryo and then a full adult organism.	
CO4	Integrate genetics, molecular biology, biochemistry, cell biology, anatomy and physiology during embryonic development.	
CO5	Understand a variety of interacting processes ,which generate an organism's heterogeneous shapes, size, and structural features.	
CO6	Understand how a cell behaves in response to an autonomous determinant or an external signal, and the scientific reasoning exhibited in experimental life science.	

Year: Third		Semester: Sixth
Paper-2 (Theory)		
Course Title: Ecology, Ethology, Environmental Science and Wildlife		
Course Code: B050602T Credit: 04		
CO1	To understand the complexities and interconnectedness of various environmental levels and their functioning.	
CO2	To know the Global environmental issues, their causes, consequences and amelioration.	
CO3	To understand and identify behaviours in a variety of taxa.	
CO4	The proximate and ultimate causes of various behaviours.	
CO5	To know about the molecules, cells, and systems of biological timing systems.	
CO6	Conceptualizing how species profitably inhabit in the temporal environment and space out their activities at different times of the day and seasons.	
CO7	To interpret the cause and effect of life style disorders contributing to public understanding of biological timing	
CO8	To understand the importance of wildlife conservation	
Year: Third		Semester: Sixth
Paper-3 (Practical)		
Course Title: Lab on Ecology, Environmental Science, Behavioral Ecology & Wildlife		
Course Code: B050603P Credit: 02		
CO1	To understand the basic concepts, importance, status and interaction between organisms and environment.	
CO2	To get the employment in forest services, sanctuaries, conservatories etc.	
CO3	To enable the students to take up research in wildlife.	

UG BOTANY

COURSE OUTCOMES

CERTIFICATE COURSE IN MICROBIAL TECHNOLOGY & CLASSICAL BOTANY

Year: First		Semester: First
Paper-1 (Theory)		
Course Title: Microbiology & Plant Pathology		
Course Code: B040101T Credit: 04		
CO1	Develop understanding about the classification and diversity of different microbes including viruses, Algae, Fungi & Lichens & their economic importance.	
CO2	Develop conceptual skill about identifying microbes, pathogens, biofertilizers & lichens.	
CO3	Gain knowledge about developing commercial enterprise of microbial products.	
CO4	Learn host –pathogen relationship and disease management.	
CO5	Learn Presentation skills (oral & writing) in life sciences by usage of computer & multimedia	
CO6	Gain Knowledge about uses of microbes in various fields.	
CO7	Understand the structure and reproduction of certain selected bacteria algae, fungi and lichens	

CO8	Gain Knowledge about the economic values of this lower group of plant community.
Year: First Semester: First	
Paper-2 (Practical)	
Course Title: Techniques in Microbiology & Plant Pathology	
Course Code: B040102P Credit: 02	
CO1	Understand the instruments, techniques, lab etiquettes and good lab practices for working in a microbiology laboratory.
CO2	Develop skills for identifying microbes and using them for Industrial, Agriculture and Environment purposes
CO3	Practical skills in the field and laboratory experiments in Microbiology & Pathology
CO4	Learn to identify Algae, Lichens and plant pathogens along with their Symbiotic and Parasitic associations.
CO5	Can initiate his own Plant & Seed Diagnostic Clinic.
CO6	Can start own enterprise on microbial products Credit.
Year: First Semester: Second	
Paper-1 (Theory)	
Course Title: Archegoniates and Plant Architecture	
Course Code: : B040201T Credit: 04	
CO1	Develop critical understanding on morphology, anatomy and reproduction of Bryophytes, Pteridophytes and Gymnosperms
CO2	Understanding of plant evolution and their transition to land habitat.
CO3	Understand morphology, anatomy, reproduction and developmental changes therein through typological study and create a knowledge base in understanding the basis of plant diversity, economic values & taxonomy of plants
CO4	Understand the details of external and internal structures of flowering plants.
Year: First Semester: Second	
Paper-2 (Practical)	
Course Title: Land Plants Architecture	
Course Code: B040202P Credit: 02	
CO1	The students will be made aware of the group of plants that have given rise to land habit and the flowering plants. Through field study they will be able to see these plants grow in nature and become familiar with the biodiversity.
CO2	Students would learn to create their small digital reports where they can capture the zoomed in and zoomed out pictures as well as videos in case they are able to find some rare structure or phenomenon related to these plants.
CO3	Develop an understanding by observation and table study of representative members of phylogenetically important groups to learn the process of evolution in a broad sense.
CO4	Understand morphology, anatomy, reproduction and developmental changes therein through typological study and create a knowledge base in understanding plant diversity, economic values & taxonomy of lower group of plants.
CO5	Understand the composition, modifications, internal structure & architecture of flowering plants for becoming a Botanist.

DIPLOMA IN PLANT IDENTIFICATION, UTILIZATION & ETHNOMEDICINE

Year: Second		Semester: Third
Paper-1 (Theory)		
Course Title: Flowering Plants Identification & Aesthetic Characteristic		
Course Code: : B040301T Credit: 04		
CO1	To gain an understanding of the history and concepts underlying various approaches to plant taxonomy and classification.	
CO2	To learn the major patterns of diversity among plants, and the characters and types of data used to classify plants	
CO3	To compare the different approaches to classification with regard to the analysis of data.	
CO4	To become familiar with major taxa and their identifying characteristics, and to develop in depth knowledge of the current taxonomy of a major plant family	
CO5	To discover and use diverse taxonomic resources, reference materials, herbarium collections, publications.	
CO6	For the entrepreneur career in plants, one can establish a nursery, Start a landscaping business, Set up a farm Or Run a plantation consultancy firm	
Year: Second		Semester: Third
Paper-2 (Practical)		
Course Title: Plant Identification technology		
Course Code: B040302P Credit: 02		
CO1	To learn how plant specimens are collected, documented, and curated for a permanent record.	
CO2	To observe, record, and employ plant morphological variation and the accompanying descriptive terminology.	
CO3	To gain experience with the various tools and means available to identify plants.	
CO4	To develop observational skills and field experience.	
CO5	To identify a taxonomically diverse array of native plants.	
CO6	To recognize common and major plant families.	
CO7	To Understand aesthetic characters of flowering plants by making-landscapes,gardens,bonsai,miniatures.	
CO8	Comprehend the concepts of plant taxonomy and classification of Angiosperms.	
Year: Second		Semester: Fourth
Paper-1 (Theory)		
Course Title: Economic Botany, Ethnomedicine and Phytochemistry		
Course Code: : B040401T Credit:04		
CO1	Understand about the uses of plants –will know one plant-one employment.	
CO2	Understand phytochemical analysis related to medicinally important plants and economic products produced by the plants.	
CO3	Know about the importance of Medicinal plants and its useful parts, economically important plants in our daily life and also about the traditional medicines and herbs, and its relevance in modern times.	
Year: Second		Semester: Fourth
Paper-2 (Practical)		
Course Title: Commercial Botany & Phytochemical Analysis		
Course Code: B040402P Credit: 02		

CO1	Know about the commercial products produced from plants.
CO2	Gain the knowledge about cultivation practices of some economic crops.
CO3	Understand about the ethnobotanical details of plants.
CO4	Learn about the chemistry of plants &herbal preparations
CO5	Can become a protected cultivator, aromatic oil producer, Pharmacologist or quality analyst in drug company.

BACHELOR OF SCIENCE

Year: Third		Semester: Fifth
Paper-1 (Theory)		
Course Title: Plant Physiology, Metabolism & Biochemistry		
Course Code: : B040501T Credit: 04		
CO1	Understand the role of Physiological and metabolic processes for plant growth and development.	
CO2	Learn the symptoms of Mineral Deficiency in crops and their management.	
CO3	Assimilate Knowledge about Biochemical constitution of plant diversity.	
CO4	Know the role of plants in development of natural products, nutraceuticals, dietary supplements, antioxidants.	
Year: Third		Semester: Fifth
Paper-2 (Theory)		
Course Title: Molecular Biology & Bioinformatics		
Course Code: B040502T Credit:04		
CO1	Understand nucleic acids, organization of DNA in prokaryotes and Eukaryotes, DNA replication mechanism, genetic code and transcription process.	
CO2	Know about Processing and modification of RNA and translation process, function and regulation of expression.	
CO3	Gain working knowledge of the practical and theoretical concepts of bioinformatics	
Year: Third		Semester: Fifth
Paper-3 (Practical)		
Course Title: Experiments in physiology, Biochemistry & molecular biology		
Course Code: B040503P Credit:02		
CO1	Know and authentic the physiological processes undergoing in plants along with their metabolism	
CO2	Identify Mineral deficiencies based on visual symptoms	
CO3	Understand and develop skill for conducting molecular experiments for genetic engineering	
Year: Third		Semester: Fifth
Paper-3 (Project)		
Course Title: Project in Botany for Pre-graduation		
Course Code: B040504R Credit: 03		
CO1	Project work will supplement field experimental learning and deviations from classroom and laboratory transactions.	
CO2	project work will enhance the capability to apply gained knowledge and understanding for selecting, solving and decision-making processes.	
CO3	It will promote creativity and the spirit of enquiry in learners.	

CO4	They will learn to consult Scientists, libraries, laboratories and herbariums and learn importance of discussions, Botanical & field trips, print and electronic media, internet etc. along with data documentation, compilation, analysis & representation in form of dissertation writing.
CO5	It will enhance their abilities, enthusiasm, and interest.
Year: Third Semester: Sixth	
Paper-1 (Theory)	
Course Title: : Cytogenetics, Plant Breeding & Nanotechnology	
Course Code: : B040601T Credit: 04	
CO1	Acquire knowledge on cell ultrastructure.
CO2	Understand the structure and chemical composition of chromatin and concept of cell division.
CO3	Interpret the Mendel's principles, acquire knowledge on cytoplasmic inheritance and sex-linked inheritance.
CO4	Understand the concept of 'one gene one enzyme hypothesis' along with the molecular mechanism of mutation.
Year: Third Semester: Sixth	
Paper-2 (Theory)	
Course Title: Ecology & Environment	
Course Code : B040602T Credit: 04	
CO1	Acquaint the students with complex interrelationship between organisms and environment;
CO2	Make them understand methods for studying vegetation, community patterns and processes, ecosystem functions, and principles of phytogeography.
CO3	This knowledge is critical in evolving strategies for sustainable natural resource management and biodiversity conservation.
Year: Third Semester: Sixth	
Paper-3 (Practical)	
Course Title: : Lab on Cytogenetics, Conservation & Environment management	
Course Code: B040603P Credit:02	
CO1	To perform all experiments related to the semester-i.e. Plant tissue cultured plants, conducting breeding on field, conserving and depolluting the environment.
CO2	Can be employed in environment impact assessment companies & start his own venture.
Semester: Sixth	
Paper-3 (Practical)	
Course Title: Project in Botany for Graduation	
Course Code: B040604R Credit: 03	
CO1	Project work will supplement field experimental learning and deviations from classroom and laboratory transactions.
CO2	Project work will enhance the capability to apply gained knowledge and understanding for selecting, solving and decision-making processes.
CO3	It will promote creativity and the spirit of enquiry in learners.
CO4	They will learn to consult Scientists, libraries, laboratories and herbariums and learn importance of discussions, Botanical & field trips, print and electronic media, internet etc.

	along with data documentation, compilation, analysis & representation in form of dissertation writing.
CO5	It will enhance their abilities, enthusiasm, and interest.

Degree in B.com (Honors.)

PROGRAMME OUTCOMES (POs)

A Bachelor of Commerce (Honors) degree typically aims to provide students with a thorough grounding in the principles of business and commerce, along with an opportunity to specialize in a specific area. The honors component usually involves a deeper study and often a research project. Programme outcomes for a commerce degree program focus on the personal and developmental aspects of student growth, beyond the acquisition of technical skills and knowledge. These outcomes are more about the transformation of the student's perspective, character, and personal capabilities. Here are several key programme outcomes often targeted in commerce education:

PO1. Communication Skills: Effective communication is crucial in business. Students will learn to articulate ideas clearly and persuasively in both oral and written forms, suitable for diverse audiences and business contexts.

PO2. Leadership and Teamwork: The curriculum often includes team-based projects and leadership training, preparing students to lead and work effectively in teams.

PO3. Entrepreneurial Skills: Some subjects also focus on entrepreneurship, preparing students to initiate and manage business ventures effectively.

PO4. Ethical and Social Responsibility: An increased awareness of the ethical implications of business decisions and a stronger commitment to act responsibly in their professional and personal lives. This includes understanding the impact of business on the environment and society.

PO5. Lifelong Learning Attitude: The cultivation of a mindset that views learning as an ongoing process. Graduates with this outlook are more likely to keep up with industry changes and continue improving their skills throughout their careers.

PO6. Professionalism Development: of professional behavior and attitudes, including punctuality, dress, demeanor, and an understanding of workplace norms. This also involves developing a professional identity.

PO7. Research Skills: A significant aspect of an honors degree is the emphasis on research. Students will learn how to conduct rigorous academic research, which involves framing questions, gathering data, and employing appropriate methodologies to draw conclusions.

PO8. Analytical Skills: Graduates will develop strong analytical abilities, enabling them to interpret and analyze financial data and business trends effectively. This includes proficiency in using various quantitative and qualitative analytical tools.

PO9. In-depth Knowledge of Commerce: Students will acquire comprehensive knowledge of core commerce subjects such as accounting, finance, economics, marketing, and management. The honors component often allows for deeper exploration into a chosen specialty.

PO10. Interpersonal Sensitivity: Enhanced ability to understand, empathize, and effectively interact with people from diverse backgrounds and cultures. This is particularly important in a globalized business world where cross-cultural communication is common.

PG M.Com.

Subject: Commerce

Course Outcomes

Year: First		Semester: First
Paper-1 Type : Core		
Course Title: Organizational Behaviour		
Course Code: C010701T Credit: 05		
CO1	To make the familiar with the basics of organizational behaviour and make them understand the importance of groups and leadership etc.	
CO2	The aims to develop in the student the ability to run a business house more efficiently in a situation of stress.	
Year: First		Semester: First
Paper-2 Type : Core		
Course Title: Accounting and Managerial Decisions		
Course Code: C010702T Credit: 05		
CO1	This to depict the applied aspect of accounting and also to enable them to analyze and use the accounting information for decision making.	
CO2	The aim of the course is to enhance the ability of the manager in taking effective business decisions also.	
Year: First		Semester: First
Paper-3 Type : Core		
Course Title: Statistical Analysis		
Course Code: C010703T Credit: 05		
CO1	To enable to understand the basic concepts of statistical tools and techniques and to develop in them the ability to apply these tools and techniques for managerial decision making and also to work as good researcher.	
Year: First		Semester: First
Paper-3 Type : Core		
Course Title: Managerial Economics		
Course Code: C010704T Credit: 05		
CO1	The course aims to make the students aware of various economic issues, tools and techniques of economic analysis required.	
CO2	To enhance the decision-making skills while working in a corporate sector.	

Year: First		Semester: Second
Paper-1 Type : Core		
Course Title: Financial Management		
Course Code: C010801T Credit: 05		
CO1	The objective to enable and to understand the basic principles tools and techniques of financial management of a company.	
CO2	To enhance their ability to make sound financial decisions and policies.	
Year: First		Semester: Second
Paper-2 Type : Core		
Course Title: Marketing Management		
Course Code: C010802T Credit: 05		
CO1	The objective is to understand basic concepts and principles of marketing and to develop their conceptual and analytical skills required.	
CO2	To manage marketing operations of a business enterprise efficiently.	
Year: First		Semester: Second
Paper-3 Type : Core		
Course Title: Human Resource Management		
Course Code: C010803T Credit: 05		
CO1	To develop the broad perspective on themes and issues of human resource management along with their relevance and application in the Indian prospective.	
CO2	The aims to develop relevant skills required to handle HR related issues.	
Year: First		Semester: Second
Paper-3 Type : Elective		
<u>Group A: ACCOUNTING AND FINANCE</u>		
Course Title: Advance Corporate Accounting and Reporting		
Course Code: C010804T Credit: 05		
CO1	To focuses on the study of accounting required to understand financial position of the corporate enterprise and understand the statutory requirements so as to manage the enterprise efficiently.	
Year: First		Semester: Second
Paper-3 Type : Elective		
<u>Group B: MARKETING</u>		
Course Title: Consumer Behavior and Marketing Research		
Course Code: C010805T Credit: 05		
CO1	The objective is to make and understand the complexities of consumers' needs and perceptions and to develop in them the ability to formulate effective marketing strategies. The course also aims to provide knowledge of marketing research.	

Year: First		Semester: Second
Paper-3 Type : Elective		
<u>Group C: HUMAN RESOURCE MANAGMENT</u>		
Course Title: Talent Management		
Course Code: C010806T Credit: 05		
CO1	The aims to enhance the learning process and to manage and upgrade the skill set of high potential employees, to retain them for a long run and achieve the desired goals of the organization.	
CO2	It is designed for developing a sound integrated talent management plan that not only aids individual employee's growth but also the growth of the company as a whole.	
Year: First		Semester: Second
Paper-4 Type : Project		
Course Title: Research Project		
Course Code: C010807R Credit: 08		
CO1	Research project can be done in form of Internship/Survey/Field work/Research project/ Industrial training, and a report/dissertation.	
CO2	Students should complete Internship/Survey/Field work/Research project/ Industrial training, and a report/dissertation and shall be submitted and that shall be evaluated via seminar/presentation and viva voce.	
Year: First		Semester: Second
Paper- Type : Minor Elective		
Course Title: Agricultural Economics		
Course Code: Credit: 04/05/06		
CO1	To understand the introduction of native and scope of agricultural economics and also understand the agriculture in economic development.	
CO2	Provide proper information about the theories of agriculture development .Production function in agriculture economics of farm size and capital formation in agriculture.	

Year: Second		Semester: Third
Paper-1 Type : Core		
Course Title: Business Research Methodology		
Course Code: C010901T Credit: 05		
CO1	To develop in-depth knowledge of the methodology appropriate for conducting research in business.	

CO2	It includes a review of the scientific method and its application to the business research process, data preparation, analysis and presentation of the research output (written and oral) making accurate decisions.
CO3	The three broad objectives namely, to help the students appreciate the need of having a well- structured method in carrying out research investigations, provide them a thorough understanding of the research process, and familiarize them with the major tools and techniques in carrying out research investigations.

Year: Second **Semester: Third**
Paper-2 Type : Core
Course Title: Strategic Management
Course Code: C010902T Credit: 05

CO1	It concerned with both the determination of strategic direction and the management of the strategic process.
CO2	It deals with the analytical, behavioural, and creative aspects of business simultaneously.
CO3	The perspective is to make and aware about the key tasks involved including detection and adaptation to environmental change; the procurement and allocation of resources; the integration of activities across subparts of the organizations; and, at the most senior levels, the determination of purpose and the setting of corporate directions.
CO4	The content will enhance the basic understanding of the nature and dynamics of the strategy formulation and implementation processes.

Year: Second **Semester: Third**
Paper-3 Type : Elective
Group A: ACCOUNTING AND FINANCE

Course Title: Indian Financial System and Financial Services
Course Code: C010903T Credit: 05

CO1	This course is designed to develop a knowledge about the financial system and functioning of financial sub-systems comprising of financial markets, financial instruments, financial intermediaries, financial services and regulatory authorities.
CO2	Moreover, the able to understand the core financial services, prudential norms, new technologies and the latest transformation or reforms in mobilizing funds in economy.

Year: Second **Semester: Third**
Paper-3 Type : Elective

Group B: MARKETING

Course Title: Marketing of Services and Retail Management
Course Code: C010904T Credit: 05

CO1	The aim of the course is to give students abroad foundation in Service Marketing and Retail Management.
CO2	This course relates to study of decisions that strikes to trade-off between risk and returns, efficiency and effectiveness.

CO3	The economies of the world are now dominated by services. Furthermore, manufacturing companies recognize the potential of services as one of the few sustainable competitive advantages they can develop.
CO4	The focuses on the customers, listening to customer requirements and developing customer-defined services standards, aligning strategy and service design, delivering and performing service and managing service promises.

Year: Second		Semester: Third
Paper-3 Type : Elective		
<u>Group C: HUMAN RESOURCE</u>		
Course Title: Organization Development and Change Management		
Course Code: C010905T Credit: 05		
CO1	To motivate and gain knowledge and leadership skills needed to help organizations chart a successful course through change, understand the role leadership plays in anticipating, planning and navigating organizational change.	
CO2	The aims to make students gain foundational knowledge for making managerial decisions based on business data.	
Year: Second		Semester: Third
Paper-3 Type : Elective		
<u>Group A: ACCOUNTING AND FINANCE</u>		
Course Title: Corporate Tax Planning and Management		
Course Code: C010906T Credit: 05		
CO1	The objective of the course is to familiarize with the corporate tax law of India and to develop in them the ability to take sound financial decisions in the interest of the company taking advantage of tax concessions & reliefs etc.	

Year: Second		Semester: Third
Paper-3 Type : Elective		
<u>Group B: MARKETING</u>		
Course Title: Logistics and Supply Chain Management		
Course Code: C010907T Credit: 05		
CO1	The objective is to make acquainted with the concepts and tools of supply chain management and trade logistics relevant for a business enterprise.	
CO2	The course is designed to develop understanding of Performance Measurement and Relationship Marketing etc.	
Year: Second		Semester: Third
Paper-3 Type : Elective		
<u>Group C: HUMAN RESOURCE</u>		
Course Title: Industrial Relations and Labour Legislation		
Course Code: C010908T Credit: 05		

CO1	The objective of the course is to provide conceptual framework of Industrial Relations and Indian Labour legislation and to give an insight of the reforms in industrial relations in India.
CO2	The course aims to make students aware of existing framework of harmonious Industrial Relation, discipline and collective bargaining mechanism.
Year: Second Semester: Fourth	
Paper-1 Type : Core	
Course Title: Project Management and Planning	
Course Code: C011001T Credit: 05	
CO1	The course is designed to provide an understanding of different types of projects and the total approach for project management with a view to understand the reasons for project failures and to familiarize students with recent advances in project management tools and techniques including computers.
Year: Second Semester: Fourth	
Paper-2 Type : Elective	
<u>Group A: ACCOUNTING AND FINANCE</u>	
Course Title: Management Information System	
Course Code: C011002T Credit: 05	
CO1	The purpose is to build and understand basic concept of information and its relevance in business environment so as to develop proficiency in solving business problems using personal productivity tools.
CO2	The aims to equip with art of presenting information before management for decision making.

Year: Second Semester: Fourth	
Paper-3 Type : Elective	
<u>Group B: MARKETING</u>	
Course Title: Customer Relationship Management	
Course Code: C011003T Credit: 05	
CO1	The aim of the course is to provide understanding of comprehensive marketing strategy to improve marketing productivity which can be achieved by increasing marketing efficiency and enhancing marketing effectiveness through a process of acquiring, retaining and partnering with selective customers to create superior mutual value for the organization.

Year: Second Semester: Fourth	
Paper-4 Type : Elective	
<u>Group C: HUMAN RESOURCE</u>	
Course Title: Training and Development	
Course Code: C011004T Credit: 05	
CO1	The course is designed to enable the students to gain information on training practices in relation to organizational development and to develop skills necessary

	to analyze, design, develop, conduct, and evaluate training programs and their success.
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Year: Second		Semester: Fourth
Paper-5 Type : Elective		
<u>Group A: ACCOUNTING AND FINANCE</u>		
Course Title: International Financial System and Management		
Course Code: C011005T Credit: 05		
CO1	This course is concerned with the financial management of the firms that operate in the increasingly globalized business environment.	
CO2	Emphasizing broad concepts and real-world practices rather than extensive quantitative material, the course offers a concise introduction to international finance and provides a clear, conceptual framework for analyzing key financial decisions in multinational firms.	
CO3	The approach of the course is to enable students to understand international financial management as a natural and logical extension of the principles learned in the introductory financial management course.	

Year: Second		Semester: Fourth
Paper-6 Type : Elective		
<u>Group B: MARKETING</u>		
Course Title: Digital Marketing and E-Commerce		
Course Code: C011006T Credit: 05		
CO1	To understand digital and social media marketing practices to acquire and enhance customer engagement.	
CO2	The able to develop latest digital practices for marketing and promotion.	

Year: Second		Semester: Fourth
Paper-7 Type : Elective		
<u>Group C: HUMAN RESOURCE</u>		
Course Title: Conflict Resolution and Strategic Negotiation		
Course Code: C011007T Credit: 05		
CO1	To design to make and understand different types of conflict at workplace and have an insight as to how to recognize the positive and negative impacts and outcomes of resolved and unresolved conflict, The course also aims to enhance the understanding of strategic negotiations.	

Year: Second		Semester: Fourth
Paper-8 Type : Elective		
<u>Group A: ACCOUNTING AND FINANCE</u>		
Course Title: Security Analysis and Portfolio Management		
Course Code: C011008T Credit: 05		
CO1	The course is designed to enforce student's knowledge and understanding of the security analysis and portfolio management process. Focus is to develop understanding of Investments (objectives and constraints), secondary market operations, selection of financial instruments, portfolio formulation, monitoring evaluation techniques.	
CO2	The valuation of equity and interest-bearing instruments provides an insight for decision making required to achieve the core objective of business.	

Year: Second		Semester: Fourth
Paper-9 Type : Elective		
<u>Group B: MARKETING</u>		
Course Title: International Marketing		
Course Code: C011009T Credit: 05		
CO1	The objective of the course is to familiarize with the conceptual framework, policies and procedures of international marketing.	
CO2	It also aims to provide an exposure of the environmental dynamics of International business to the students so as to enable them to develop international marketing strategies.	

Year: Second		Semester: Fourth
Paper-10 Type : Elective		
<u>Group C: HUMAN RESOURCE</u>		
Course Title: Performance and Compensation Management		
Course Code: C011010T Credit: 05		
CO1	The objective of the course is to familiarize students about concepts of performance and compensation management and how to use them to face the challenges of attracting, retaining and motivating employees towards higher performance.	

Year: Second		Semester: Fourth
Paper-11 Type : Project		
Course Title: Research Project		

Course Code: C011011R Credit: 08	
CO1	Students will complete their projects in form of Survey/Field work/Research project and a report/dissertation and shall be submitted and that shall be evaluated via seminar/presentation and viva voce.

VOCATIONAL PAPERS

MEDIA REPORTING AND EDITING

PROGRAMME OUTCOMES (POs)

The ‘Media reporting and editing’ is a 6 months program to develop the communication skills, theoretical and practical knowledge among the students in print, electronic and new media.

- **PO1:** The program will emphasize on education in the communication and journalism disciplines that is current, relevant, practical, and personal.
- **PO2:** The students will be able to identify the use of media in providing meaningful information.
- **PO3:** After the completion of the course the students will be able to explain and review on critical evaluation of mass communication theories.
- **PO4:** Students will acquire employability skills and can make successful career in media industry.

MEDIA REPORTING AND EDITING

COURSE OUTCOMES

Part	Paper Name & Credits =3(All)
Theory	Theory <ul style="list-style-type: none"> • News: Concept. Definition. Types of news: Hard& Soft news. Elements of News. News Source. News Angle. Reporter: responsibilities and qualities. Basics of reporting. 5Ws+1H. News-structure: Intro, body & conclusion. Inverted Pyramid style. Media terminology.

	<ul style="list-style-type: none"> • Beat Concept. Meaning. Types of Beats. Press Conferences. Interviewing Purpose, format and preparation. Formats of reporting: Breaking news, news update, follow up, news analysis. • Editorial department of a daily newspaper. Newsroom setup and the way it work. Functions of editor, assistant editor, news editor, deputy news editor, chief sub- editor, senior sub- editor and sub-editor. News desk: News -flow. Edition- wise planning& copy management with update. • Editing: Concept Need for news-editing. Editing skills: Basics of grammar and language. Understanding the theme/ storyline, news angle and prioritization of key facts. Accuracy, fairness and readability etc.
<p>Practical/ Internship</p>	<p>Practical/ Internship</p> <ul style="list-style-type: none"> • Writing Practices of Letters to Editor, Press- releases and Today's programmes. • Reporting and Editing news of different beats like Crime, Accidents. Tragedies, Politics, Education, Administration and Life style. Five hours practical session for each segment of news reporting and editing with headlines. • Translation from English to Hindi and Hindi to English.

POSITIVE PSYCHOLOGY AND COUNSELLING

PROGRAMME OUTCOMES (POs)

The ‘Positive psychology and counselling’ program is a 6 months program. It typically aims to equip individuals with the skills to foster personal growth, resilience, and well-being while also providing tools to support others in achieving similar outcomes.

PO1: The program often emphasizes understanding human strengths, promoting positive emotions, and cultivating healthy relationships.

PO2: Students are expected to be adept at helping clients lead more fulfilling lives by leveraging their strengths and navigating challenges effectively.

PO3: Students develop essential counselling skills such as active listening, empathy, rapport-building, and effective communication to support individuals in exploring their thoughts, feelings, and behaviors.

PO4: Students develop an understanding of ethical guidelines and cultural competence in counselling practice to ensure respectful and effective interactions with diverse populations.

POSITIVE PSYCHOLOGY AND COUNSELLING

COURSE OUTCOMES

Part	Paper Name & Credits =3(All)
Theory	Theory Credits: 1 <ul style="list-style-type: none">• Positive psychology• Individual strength• Happiness• Counselling
Practical	Practical Credits: 2 <ul style="list-style-type: none">• Positive psychology• Individual strength• Happiness• Counselling skills

ADVERTISING

PROGRAMME OUTCOMES (POs)

The 'Advertising' program is a 6 months program. It typically aims to equip individuals with the skills to get jobs in animation industry, graphics industry, modelling, media production house, digital marketing etc.

PO1: Understand and analyze the relevant research in advertising and marketing communication.

PO2: Design effective visual communication for various advertising approaches that combine the use of print, online/digital, and other multimedia communication.

PO3: Develop advertising media buying and planning strategies.

PO4: Create and defend the strategy and execution of an ad campaign for a client(s).

ADVERTISING
COURSE OUTCOMES

Part	Paper Name & Credits =3(All)
Theory	Theory <ul style="list-style-type: none">• Meaning, definition, features and types of advertising.• Significance of advertising, economic & social aspects of advertising.• Legal aspects of advertising in India.• Integrated Marketing Communication, evolution of Integrated Marketing Communication, importance of IMC.• Advertising objectives, importance of objectives, sales as an advertising objective.• Advertising Budget.• Media Planning & Strategies
Practical	Practical <ul style="list-style-type: none">• Communication process, promotional mix: tools for IMC, IMC planning process.• AIDA Model and DAGMAR Approach.
Internship/training	Internship/training <ul style="list-style-type: none">• Advertising appeals.• Message strategies.• Print Media and Outdoor media Broadcast and Internet media.• Copywriting (TV, RADIO, WEB) etc.

BASICS OF 3D ANIMATION

PROGRAMME OUTCOMES (POs)

The Basics of Animation is a 6 Months program. The course covers basics techniques in 3D Animation and Design. By the end of the course students will be able to create a 3D Animation Videos.

After completing the program successfully student will be able to:

PO1: Demonstrate techniques of 3D Animation

PO2: Understand the production pipeline

PO3: Work with high end 3D software.

PO4: Produce work portfolio for employer engagement

BASICS OF 3D ANIMATION

COURSE OUTCOMES

Part	Paper Name & Credits =3(All)	
Theory	Drawing and concept of 3D animation <ul style="list-style-type: none">• Understanding the techniques of drawing for animation• Understanding the drawing techniques of backgrounds and it's elements for animation movies• Applying the human anatomy study for the movements.• Applying the Anatomy study on cartoons and child character drawing	Credits: 1
Practical	Concept of 3D Animation with Maya-Lab <ul style="list-style-type: none">• Understanding about basic principles of animation.• Understanding the animation Maya, they practice to apply various animation principles and learn different tools for Animation in Maya• Analyzing the various techniques of Animation in Maya• Applying the various technique and tools	Credits: 1
Practical	3D Animation Production Process and Project Development	Credits: 1

	<ul style="list-style-type: none"> • Understanding various departments of 3D animation studio and understanding pre-production pipeline for using story, script, character designing, background and layouts, staging Storyboarding, voice over, Background audio, animatic. • Applying the production process pipeline for character animation And post production pipeline used for rendering in 3D Animation. • Applying the various types of 3D animation tool and techniques to create project and creating animated video uses various 3D animation tools.
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OFFICE AUTOMATION USING MS OFFICE

PROGRAMME OUTCOMES (POs)

Office tools course would enable the students in crafting professional word documents, excel spread sheets, power point presentations using the Microsoft suite of office tools. To familiarize the students in preparation of documents and presentations with office automation tools.

PO1: Professionally trained in the areas of multimedia, animation, web designing, effective media management, and to acquire knowledge in various domain multimedia applications.

PO2: Demonstrate the use of Operating system commands. Understand the basic concepts of computational thinking, including sequential logic, abstractions and problem-solving techniques.

PO3: The ability to develop problem solving skills through programming techniques for addressing real life problems using appropriate principles and concepts of Internet of Things.

PO4: Develop the understanding of various IOT application development tools and its implementation for IOT applications.

OFFICE AUTOMATION USING MS OFFICE

COURSE OUTCOMES

Part	Course outcomes	Credits:3
Sem 1	<ul style="list-style-type: none">• Learning and Understanding MS Word, MS Power Point, MS Excel, MS Access and MS Publishing.• Able to perform documentation and presenting skills.• Proficient in using Windows, Word Processing Applications, Spreadsheet Applications, Database Applications and Presentation Graphics Applications.	
Sem 2	<ul style="list-style-type: none">• Performing complex calculations more efficiently, using calc Excel.• Organizing and analyzing large volumes of data.• Creating MIS reports• Writing complex formula/function(nested)• Designing and using templates• Analyzing data using chart.• Consolidating and managing data from multiple sources• Using data source as a different database• Apply formatting to their document• Work with columns and tables.• Effectively use language features, such as spell check, thesaurus.• Use mail merge for customizing standard letters.• Using data source from different database for mail merge.• Create simple as well as sophisticated presentations• Create and use templates for consistency across presentations• Format the presentations and templates for desired appearance• Apply special effects in presentation• Using rehearse timing to make the presentation for desire duration.	
Sem 3	<ul style="list-style-type: none">• To introduce the fundamentals of Internet, and the principles of web design.• To construct basic websites using HTML and Cascading Style Sheets.• To build dynamic web pages with validation using Java Script objects and by applying different event handling mechanisms.	

Sem 4	<ul style="list-style-type: none"> • Understand the concept of IoT and its significance in the current technological landscape. • Familiarize with the hardware and software components that comprise an IoT system. • Get acquainted with various hardware platforms as Raspberry pi, NetArduino etc. • Explore different communication protocols and networking technologies used in IoT • Develop skills in programming with Arduino to create and manage IoT applications. • Learn about emerging trends and applications of IoT in various industries and fields
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PHYSICAL EDUCATION AND SPORTS

Program outcomes

The course aims at creating awareness about the fundamentals of Physical Education, and Sports to promote Health and wellness through Healthy Lifestyle.

PO1: Student will acquire the knowledge of Physical Education and Sport and understand the purpose and its development.

PO2: The curriculum would enable to officiate, supervise various sport events and organize sports events.

PO3: The student will learn to plan, organize and execute sports events.

PO4: Student will understand and learn different dimension of active life style

PO5: Student will learn theoretical and practical aspects of game of his choice to apply at various level for teaching, learning and coaching purposes efficiently.

PO6: Student will learn the knowledge of fitness diet.

PO7: The student will gain knowledge of professional preparation in Physical Education and sports.


PO8: The students will be able to interpret the models of teaching and theories of learning for teaching exercise, nutrition and sport in physical education.

PHYSICAL EDUCATION AND SPORTS

COURSE OUTCOMES

Credits: 03	
Year: First	
Semester: First	
Paper-1 (Theory)	
Course Title: History, Principles and Foundation of Physical education.	
CO1	Develop understanding about the Meaning, Definition and Scope of Physical Education.
CO2	Develop conceptual skill about misconceptions about Physical Education Relationship of Physical Education with General Education.
CO3	Gain knowledge about Importance of Physical Education in present era.
Year: First	
Semester: First	
Paper-2 (Practical)	
Course Title: Track and Field (Running Jumping Events)	
CO1	Running Event
CO2	Relays: Fundamental Skills
CO3	Track and Field Athletics: Jumping Events
Year: First	
Semester: Second	
Paper-1 (Theory)	
Course Title: Anatomy and Physiology	
CO1	Brief Introduction of Anatomy and physiology in the field of Physical Education.
CO2	Introduction of Cell and Tissue.
CO3	The arrangement of the skeleton, Function of the skeleton, Ribs and Vertebral Column and the extremities, joints of the body and their types
CO4	Gender differences in the skeleton.
CO5	Types of muscles.
Year: First	
Semester: Second	
Paper-2 (Practical)	
Course Title: Swimming/ Gymnastic (Any one)	
CO1	Gymnastics: <ul style="list-style-type: none"> • Floor Exercise • Forward Roll • Backward Roll • Sideward Roll • Different kinds of scales • Leg Split, etc.
CO2	Swimming: <ul style="list-style-type: none"> • Fundamental Skills Entry into the pool • Developing water balance and confidence • Water fear removing drills • Floating-Mushroom and Jelly fish etc.




 PRINCIPAL
 Jagran College of
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