



E-Mail: nationalbgudiautonomous@gmail.com

☎ 080-26674441

THE NATIONAL COLLEGE BASAVANAGUDI, BENGALURU- 04
AUTONOMOUS

Website: www.ncbgudi.com

Programme Outcomes(POs) , Programme Specific Outcomes(PSOs) and Course Outcomes(COs) for all Programmes offered by the institution.

Index

Sl. No.	Programme and Course	Page Number
1.	Programme Outcomes	2
2.	Bachelor of Arts (BA)	3
3.	Bachelor of Science (B.Sc)	4
4.	Bachelor of Computer Applications	5
5.	Bachelor of Commerce (B.Com)	13
6.	Master of Arts (MA in English)	23
7.	Master of Arts (MA in Economics)	29
8.	Master of Arts (MA in Kannada)	37
9.	Master of Arts (MA in Sociology)	38
10.	Master of Science (M.Sc in Computer	50
11.	Master of Commerce(M.Com)	56
12.	English	63
13.	Hindi	67
14.	Kannada	68
15.	Sanskrit	73
16.	Economics	74
17.	Journalism	77
18.	Sociology	81
19.	Botany	84
20.	Chemistry	89
21.	Computer Science	94
22.	Electronics	97
23.	Mathematics	102
24.	Physics	106
25.	Zoology	111
26.	Indian Constitution & Value Education	117

Programme Outcomes

POs of General Higher Education Programmes should be identified by the Autonomous College offering the three year Programmes:

Students of all undergraduate general degree Programmes at the time of graduation will be able to

P01:Critical Thinking: Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.

P02:Effective Communication: Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.

P03: Social Interaction: Elicit views of others, mediate disagreements and help reach conclusions in group settings.

P04:Effective Citizenship: Demonstrate empathetic social concern and equity centred national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.

P05:Ethics: Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.

P06:Environment and Sustainability: Understand the issues of environmental contexts and sustainable development.

P07:Self-directed and Life-long Learning: Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes.

The BA Programme enables students to:

- PO1:** Empower themselves with the skills and knowledge in a particular field that will lead them to professional and middle-management jobs.
- PO2:** Prepare for a specialized career in Economics, Sociology, Literature (both Kannada & English) or Journalism.
- PO3:** Analyze data, design surveys, and write research reports.
- PO4:** Examine, debate and critically theorize about a number of literary texts.
- PO5:** Converse effectively in English (most of the students come from rural parts of Karnataka).
- PO6:** Communicate with confidence and make presentations in a professional manner.
- PO7:** Develop as socially responsible and globally-aware citizens, who value critical thought and ethical action.
- PO8:** Prepare for competitive exams in pursuit of higher education in their respective disciplines.
- PO9:** Develop students' analytical-thinking, communication, and decision-making competencies and help them investigate the connections between society, economics and language.
- PO10:** Learning classical Literature, History of Kannada Literature, Modern literature, folklore in the form of Epics, Poetry, Novels, Drama, Small Stories, and Essays will prepare students for better human being.
- PO11:** Study of translation of various literary language throw light on how aboriginal culture been affected. It reveals the effect of freedom on its natives.
- PO12:** Learns the gender equality, gender respect and to boycott extremely immoral social disparity.
- PO13:** Study and discussion of cultural diversity compose students to understand the valuable thoughts achieving superior characters.
- PO14:** Industrialization gave birth to modern literature. Study of the consequences of it made the students for better preparedness to face the hurdles of globalization. This strengthens the importance of learning multi skills.
- PO15:** Study of folklore throws light on the facts that are not recorded in social and cultural history. This enlightens the values of life.

The B.Sc. Programme enables students to:

PO1: Demonstrate an understanding of core theories and principles of Physics Chemistry, Mathematics.

PO2: Through this program the students will acquire the capacity to apply the knowledge acquired in the classroom and laboratories to specific problems in theoretical and experimental Physics, Chemistry and Mathematics.

PO3: Engage in current discussions of advanced topics in Physical and Applied Sciences.

PO4: The fundamental concepts and applications will enable the students to use this knowledge to analyze new situations and learn skills and tools like mathematics, engineering and technology to find the solution, interpret the results and make predictions for the future developments.

PO5: The program exposes the student to the vast scope of Physics as a theoretical and experimental science with applications in solving most of the problems in nature spanning from 10^{-15} m to 10^{26} m in space and 10^{-10} eV to 10^{25} eV in energy dimensions.

PO6: The Program emphasizes that, the discipline of Physics along with Chemistry and Mathematics is most important combination of science for pursuing the interdisciplinary and multidisciplinary higher education and/or research in interdisciplinary and multidisciplinary areas.

PO7: Discuss the importance of a research based Mathematical programme.

PO8: Take up higher education and become researchers as well as teachers of Science which is the need of the country today.

PO9: The program emphasizes Physics Chemistry and Mathematics as the most important discipline for sustaining the existing industries and establishing new ones to create job opportunities at all levels of employment.

PO10: Contribute to the knowledge base of Science by being innovative having been exposed to the recent developments in the field of science.

PO11: Exhibit a scientific temperament which is the chief objective of this institution.

Department of Computer Science

Programme Outcomes

The BCA Programme enables students to:

P01: Employ modern computer languages, environments, and platforms in creating innovative career paths to be an entrepreneur with a zest for higher studies.

P02: Provide socially acceptable technical solutions to complex computer science problems with the application of modern and appropriate techniques for sustainable development relevant to professional engineering practice.

P03: Comprehend and write effective project reports in a multidisciplinary environment in the context of changing technologies.

P04: Apply the knowledge of ethical and management principles required to work in a team as well as to lead a team.

P0 5: Develop an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.

P06: Ability to understand the principles and working of computer systems. Students can assess the hardware and software aspects of computer systems.

P07: Ability to understand, analyze and develop computer programs in the areas related to algorithms, system software, multimedia, web design, big data analytics, and networking for efficient design of computer-based systems of varying complexity.

P08: The ability to apply standard practices and strategies in software project development using open-ended programming environments to deliver a quality product for business success and to demonstrate basic knowledge of Database System, Software Engineering, Computer Networking and Operating System for software applications.

P09: Ability to apply mathematical methodologies to solve computation task, model real world problem using appropriate data structure and suitable algorithm.

P010: Ability to use knowledge in various domains to identify research gaps and hence to provide solution to new ideas and innovations

Course Outcomes

First Semester

Course Name :	Mathematical Foundation for Computer Applications
Course Code:	1BC-C1
CO 1:	Students will be able to demonstrate understanding of and proficiency with basic concepts in linear algebra, systems of linear equations, matrices, determinants, Calculus.
CO 2:	Students will learn functions of one variable, differentiation and its applications, the definite integral, techniques of integration.
CO 3:	Employ methods related to basic mathematical concepts in a variety of applications.
CO 4:	Apply logical thinking to problem-solving in context.
CO 5:	Use appropriate technology to aid problem-solving.
Course Name :	Programming in C
Course Code:	1BC-C3
CO 1:	Clearly understand the logic of the problem.

CO 2:	Analyze the given problem and write the algorithm, flowchart.
CO 3:	Implementing different concepts in developing applications including control structures, arrays, strings, pointers and functions.
CO 4:	Developing advanced applications by using the concepts like files and command line arguments.
Course Name :	Computer Organization and Architecture
Course Code:	1BC-C4
CO 1:	Be familiar with the history and development of modern computers. Be familiar with Number System and Boolean algebra.
CO 2:	Be familiar with Combinational and logic circuits. Be familiar with organization and design of modern computer and its architecture.
CO 3:	Be familiar with I/O organization and Memory organization
Course Name :	Programming in C Lab
Course Code:	1BC-P1
CO 1:	Students acquire the knowledge to build the logic.
CO 2:	Develop a solution for a problem statement.
Course Name :	Computer Application Lab
Course Code:	1BC-P2
CO 1:	Students will gain practice in using key applications such as word processors, spreadsheets, and presentation software, as well as understanding social and ethical issues around the Internet, information, and security.
CO 2:	Manipulate and control the Windows desktop, files and disks.
Second Semester	
Course Name :	Data Structures Using C
Course Code:	2BC-C2
CO 1:	Understand the need for Data Structures when building application.
CO 2:	Appreciate the need for optimized algorithm.
CO 3:	Able to walk through insert and delete for different data structures.
CO 4:	Improve programming skills.
CO 5:	Ability to calculate and measure efficiency of code.
Course Name :	Object Oriented Programming using C++
Course Code:	2BCA-C3
CO 1:	Be able to explain the differences between object oriented programming and procedural programming.
CO 2:	Be able to program using more advanced C++ features such as composition of objects, operator overloads, dynamic memory allocation, inheritance and polymorphism, file I/O, etc.
CO 3:	Be able to build C++ classes using appropriate encapsulation and design principles.
CO 4:	Be able to apply object oriented or non-object oriented techniques to

	solve computing problems.
Course Name :	Operating Systems
Course Code:	2BC-C4
CO 1:	Student will gain experience in implementing and manipulating common components of modern operating systems.
CO 2:	Summarizes the full range of considerations in the design of file systems, summaries techniques for achieving synchronization in an operation system.
CO 3:	Students will able to configure the operating System.
Course Name :	Data Structures using Lab Using C
Course Code:	2BC-P1
CO 1:	Upon completion of the course, the students acquire the knowledge to build the logic using different data structure concepts.
CO 2:	Able to develop a optimized solution for the given problem statement.
Course Name :	C++ Lab
Course Code:	2BC- 6P
CO 1:	Students will able to write simple to complex C++ programs using object oriented concepts
CO 2:	Upon completion of the course, the students acquire the knowledge to build the logic and develop a solution for a problem statement using C++.
Third Semester	
Course Name :	3BC-C1
Course Code:	Java Programming
CO 1:	Students will learn Object-Oriented programming concepts and techniques using the Java programming language.
CO 2:	Read and understand Java-based software code of medium-to-high complexity.
CO 3:	The student will be able to create a software application using the Java programming language.
Course Name :	Unix Operating System
Course Code:	3BC-C2
CO 1:	Able to understand the Unix Operating System and the working of the built in commands available in Unix.
CO 2:	Design and develop shell programming, communication, System calls and terminology.
CO 3:	Design and develop UNIX File I/O and UNIX Processes.
Course Name :	Database Management Systems
Course Code:	3BC-C3
CO 1:	Have a broad understanding of database concepts and database management system software.

CO 2:	Have a high-level understanding of major DBMS components and their function.
CO 3:	Be able to model an application's data requirements using conceptual modeling tools like ER diagrams and design database schemas based on the conceptual model.
CO 4:	Able to write queries using SQL Seeever.
Course Name :	VB.NET Programming
Course Code:	3BC-C4
CO 1:	The student will be able to Design, create, build, and debug Visual Basic applications. Explore Visual Basic's Integrated Development Environment (IDE).
CO 2:	Understand .NET Framework and describe some of the major enhancements to the new version of Visual Basic.
CO 3:	Describe the basic structure of a Visual Basic.NET project and use main features of the integrated development environment (IDE)
CO 4:	Able to create Console and Windows applications.
Course Name :	Unix Lab
Course Code:	3BC-P1:
CO 1:	The students acquire the knowledge to build the suitable logic for solving the problem.
CO 2:	The Knowledge and skills acquired in this lab will be used in the area of Unix Operating Systems and to build applications.
Course Name :	VB.NET and SQL Lab
Course Code:	3BC-P2
CO 1:	Students are familiarized in developing simple applications using VB.NET.
CO 2:	Students are familiarized in developing simple and complicated queries.
CO 3:	To handle DDL and DML Commands.
Course Name :	3BC-7P
Course Code:	Core Java Lab
CO 1:	Upon completion of the course, the students acquire the knowledge to build the suitable logic for solving the problem using Java.
CO 2:	Students can create a software application, test, and document and prepare a professional looking package for each project using java.
Fourth Semester	
Course Name :	4BC-C1
Course Code:	Design and Analysis of Algorithms
CO 1:	Analyze the asymptotic performance of algorithms. Write rigorous correctness proofs for algorithms.
CO 2:	Demonstrate a familiarity with major algorithms and data structures.
CO 3:	Synthesize efficient algorithms in common engineering design situations.

Course Name :	Python Programming
Course Code:	4BC-C2
CO 1:	To understand why Python is a useful scripting language for developers.
CO 2:	To learn how to design and program Python applications.
CO 3:	To learn how to design object-oriented programs with Python classes.
CO 4:	To learn how to use class inheritance in Python for reusability.
CO 5:	To learn how to use exception handling in Python applications for error handling.
Course Name :	Software Engineering
Course Code:	4BC-C3
CO 1:	Acquire basic knowledge and understanding of the analysis and design of complex systems.
CO 2:	Ability to apply software engineering principles and techniques.
CO 3:	Ability to develop, maintain and evaluate large-scale software systems.
CO 4:	To produce efficient, reliable, robust and cost-effective software solutions.
CO 5:	Ability to perform independent research and analysis.
Course Name :	Computer Graphics
Course Code:	4BC-C4
CO 1:	Ability to use modern 2D and 3D computer graphics techniques, models, and algorithms to solve graphics problems.
CO 2:	To implement various algorithms to scan, convert the basic geometrical primitives, transformations, Area filling, clipping
CO 3:	Able to implement computer graphics concepts using C programming.
Course Name :	Python Lab
Course Code:	4BC-P1
CO 1:	Able to implement the Numbers, Math functions, Strings, list, tuples and dictionaries in Python.
CO 2:	Able to apply different Decision Making statements and Functions.
CO 3:	Able to implement Object oriented concepts in Python.
CO 4:	Understand and apply different File handling operations.
Course Name :	Computer Graphics Lab
Course Code:	4BC-P2
CO 1:	Able to implement algorithms related to basic operations of computer graphics using C programming language.
CO 2:	Able to design graphics application programs.
Course Name :	Mini Project
Course Code:	4BC-P3
CO 1:	The student experiences and learns the industry software development

	methodologies.
CO 2:	Student will understand how to develop windows application with DBMS.
Fifth Semester	
Course Name :	Internet Technologies
Course Code:	5BC-C1
CO 1:	Analyze a web page and identify its elements and attributes.
CO 2:	Create web pages using XHTML and Cascading Styles sheets.
CO 3:	Build dynamic web pages using JavaScript (client side programming).
Course Name :	Artificial Intelligence
Course Code:	5BC-C2
CO 1:	Students will be able to compare AI with human intelligence and traditional information processing, and discuss its strengths and limitations and its application to complex and human-centered problems
CO 2:	Discuss the core concepts and algorithms of advanced Artificial Intelligence.
CO 3:	The subject aims at realizing aspects of intelligent behavior in computer systems.
Course Name :	Computer Networks
Course Code:	5BC-C3
CO 1:	Students will be familiar with basic computer network technology.
CO 2:	Understand and explain Data Communications System and its components.
CO 3:	Identify the different types of network topologies and protocols.
Course Name :	Web Application Development
Course Code:	5BC-C4
CO 1:	After completion of the course the student will be able to use the features of .Net Framework along with the features of ASP. NET & C#.
CO 2:	Students will able to write C# programs by implementing basic and advanced concepts of C#.
CO 3:	Able to develop web applications and web services using web-services.
Course Name :	Cloud Computing
Course Code:	5BC-C5
CO 1:	Introduce the broad perceptive of cloud architecture and model Apply different cloud programming model as per need.
CO 2:	Explore some important cloud computing driven commercial systems such as Google Apps, Microsoft Azure and Amazon Web Services and other businesses cloud applications.
CO 3:	Able to apply cloud computing concepts to solve the business problems.
Course Name :	Internet Technologies Lab

Course Code:	5BC-P1
CO 1:	Able to analyze a web page and identify its elements and attributes.
CO 2:	Able to create web pages using HTML and Cascading Styles sheets. Build dynamic web pages using JavaScript (client side programming).
Course Name :	Web Application Development LAB
Course Code:	5BC-P2
CO 1:	Students will able to create console applications, web applications and web services.
CO 2:	Able to Perform Database operations for web applications using ADO.Net
Course Name :	Simulation Project Lab
Course Code:	5BC-P3
CO 1:	The student experiences and learns the industry software development methodologies.
CO 2:	Student will understand how to develop system side projects.
Sixth Semester	
Course Name :	TCP/IP
Course Code:	6BC-C1
CO 1:	Identify the different types of network topologies and protocols.
CO 2:	Identify the different types of network devices and their functions within a network.
CO 3:	Understanding the building skills of subnetting and routing mechanism.
Course Name :	Network Security
Course Code:	6BC-C2
CO 1:	Identify computer and network security threats, classify the threats and develop a security model to prevent, detect and recover from the attacks.
CO 2:	Encrypt and decrypt messages using block ciphers, sign and verify messages using well known signature generation and verification algorithms.
CO 3:	Apply network security basics, analyze different attacks on networks and evaluate the performance of firewalls and security protocols like SSL, IPSec, and PGP.
Course Name :	Mobile Computing and Wireless Technologies
Course Code:	6 BC-C3
CO 1:	Describe wireless and mobile communications systems and be able to choose an appropriate mobile system from a set of requirements
CO 2:	Be able to avoid or work around the weaknesses of mobile computing, or to reject mobile computing as a solution.
CO 3:	Demonstrate basic skills for cellular networks design.
Course Name :	Object Oriented Analysis and Design
Course Code:	6BC-C4

CO 1:	After successful completion of this course, student will be able to demonstrate the importance of modeling in the software development life cycle.
CO 2:	Understand the object-oriented approach to analyzing and designing systems and software solutions.
CO 3:	Employ the Unified modeling Language notations to create effective and efficient system designs.
CO 4:	Understand the difference between writing programs for the software and doing analysis and design.
Course Name :	Business Analytics
Course Code:	6BC-C5
CO 1:	The course prepares students for effective business intelligence, analytics, data science, and leadership roles by focusing on business acumen, ethics and leadership, data command, technology, and communication.
CO 2:	Upon completion of the course, the students will be able to program as an experienced professional, having overcome the challenges of solving actual organizational issues with real-time data-sets on multiple occasions.
CO 3:	Apply appropriate analytical methods to find solutions to business problems that achieve stated objectives.
Course Name :	Business Analytics LAB
Course Code:	6BC-P1
CO 1:	Upon completion of the course, the students are able to analyze the economic and marketing environment's impact on business operations and objectives..
CO 2:	Analyze the relationship between price and cost as determinants of supply and demand
CO 3:	Apply the principles and techniques of database design, administration, and implementation to enhance data collection capabilities and decision-support systems.
Course Name :	Project Work LAB
Course Code:	6BC-P2
CO 1:	The student experiences and learns the industry software development methodologies.
CO 2:	Students will understand how to create full-fledged web application.
CO 3:	Understand how to test the software application and how to deploy a software application.

Bachelor of Commerce (B.Com)

Programme Outcomes

The B.Com Programme enables students to:

P01: Students will be able to demonstrate progressive learning of various tax issues and tax forms related to individuals. Students will be able to demonstrate knowledge in setting up a computerized set of accounting books

P02: Students will demonstrate progressive affective domain development of values, the role of accounting in society and business.

P03: Students will learn relevant financial accounting career skills, applying both quantitative and qualitative knowledge to their future careers in business.

P04: Students will learn relevant managerial accounting career skills, applying both quantitative and qualitative knowledge to their future careers in business.

P05: Learners will gain thorough systematic and subject skills within various disciplines of commerce, business, accounting, economics, finance, auditing and marketing.

P06: Learners will be able to recognise features and roles of businessmen, entrepreneur, managers, consultant, which will help learners to possess knowledge and other soft skills and to react aptly when confronted with critical decision making.

P07: Learners will be able to prove proficiency with the ability to engage in competitive exams like CA, CS, ICWA and other courses.

P08: Learners will acquire the skills like effective communication, decision making, problem solving in day to day business affairs

P09: Learners will involve in various co-curricular activities to demonstrate relevancy of foundational and theoretical knowledge of their academic major and to gain practical exposure.

P010: Learners can also acquire practical skills to work as tax consultant, audit assistant and other financial supporting services.

P011: Learners will be able to do higher education and advance research in the field of commerce and finance.

Course Outcomes

First Semester

Course Name :	Financial Accounting
Course Code:	FA-C1
CO 1:	Students will learn relevant financial accounting career skills, applying both quantitative and qualitative knowledge to their future careers in business
CO 2:	Describe the role of accounting information and its limitations
CO 3:	Develop the skill of recording financial transactions and preparation of reports in accordance with GAAP
CO 4:	Identify events that need to be recorded in the accounting records
Course Name :	Business Economics – I
Course Code:	EC-C1
CO 1:	The students will gain the basic principles of microeconomic theory.

CO 2:	They will develop the skills to think like a business economist.
CO 3:	To able to understand theory of price.
CO 4:	To able to understand the Firm & its technology
CO 5:	The students would be able to apply tools of consumer behaviour and firm theory to business situations.
Course Name :	Business Ethics
Course Code:	BE-C1
CO 1:	Recognize important ethical issues that arise in various business contexts and professional practice
CO 2:	Recognize important ethical issues that arise in various business contexts and professional practice
CO 3:	Demonstrate critical thinking skills required for the successful practice of management and the professions within the framework of societal values
CO 4:	Demonstrate confidence in introducing ethical considerations into professional and managerial decision making and explaining their importance to others.
Course Name :	QTBD –I
Course Code:	QT-C1
CO 1:	The principles of mathematics are being applied in all walks of life, be it commerce, management, arts, service industries, hospitality, production, marketing.
CO 2:	Mathematics principles are capable of aiding decision making in all aspects, its relationship with other discipline becomes inescapable.
Course Name :	Computer Applications - I
Course Code:	CA-C1
CO 1:	Bridge the fundamental concepts of computers with the present level of knowledge of the students.
CO 2:	Understand binary, hexadecimal and octal number systems and their arithmetic.
CO 3:	Understand Security & network concept.
CO 4:	Understand Internet and application access.
Course Name :	Computer Applications - I
Course Code:	CA-P1
CO 1:	Students will gain practice in using key applications such as word processors, spreadsheets, and presentation software.
CO 2:	Understanding social and ethical issues around the Internet, information, and security.
CO 3:	Manipulate and control the Windows desktop, files and disks.
Second Semester	
Course Name :	Advanced Financial Accounting
Course Code:	AFA- C2
CO 1:	Determine appropriate accounting method required under various share

	ownership scenarios.
CO 2:	Determine Goodwill and prepare a consolidated balance sheet at the date of acquisition for business combinations
CO 3:	Translate the financial statements of a foreign subsidiary using the appropriate method
CO 4:	Students will be able to prove proficiency with the ability to engage in competitive exams like CA, CS, ICWA and other courses.
Course Name :	Business Economics – II
Course Code:	EC-C2
CO 1:	The students will gain the basic principles of microeconomic theory related to business.
CO 2:	Create awareness of different market structure and pricing in different markets.
CO 3:	To able to understand theory of distribution.
CO 4:	Familiarizing with the concepts of methods of capital budgeting and application of these methods in an organization, manufacturing unit while undertake projects.
CO 5:	Students would be able to apply the modern tools of macro-economic analysis so as to minimize the adverse impact of macro-economic factors on business.
Course Name :	Business Research Methods
Course Code:	BRM – C2
CO 1:	Develop data collection instrument according to the underlying theoretical framework.
CO 2:	Explain how to conduct data collection (quantitative and qualitative)
CO 3:	Discuss and apply different research approaches and methodologies
Course Name :	QTBD –II
Course Code:	
CO 1:	Understand the gap between social science and other pure sciences.
CO 2:	Able to test the basic statistical techniques, hypothesis.
CO 3:	Understand Statistical tools in the study of Research Methodology and to solve economic problems.
Course Name :	Computer Applications - II
Course Code:	CA-C2
CO 1:	Understanding the structure of MIS.
CO 2:	Understand & handle the database System.
CO 3:	Understand ERP, AI, BPR EIS and KMS application model.
CO 4:	Learning Decision Support System .
Course Name :	Computer Applications - II

Course Code:	CA-P2
CO 1:	Hands on experience on database creation & operations
CO 2:	Establishing query and report generation on database.
Third Semester	
Course Name :	Corporate Accounting
Course Code:	CA –C3
CO 1:	An understanding of the regulatory environment in which the companies are formed and operate in India
CO 2:	A solid foundation in accounting and reporting requirements of the Corporations Act and relevant Australian Accounting Standards Board (AASB) accounting account for a rang standards
CO 3:	A comprehensive understanding of the advanced issues in accounting for assets, liabilities and owner’s equity
CO 4:	The ability to accountant for a range of advanced corporate issues.
Course Name :	Principles of Event Management
Course Code:	PEM – C3
CO 1:	Students will know main objective of event management and they learn how to organize the events.
CO 2:	Obtain a sense of responsibility for the multi-disciplinary nature of event management.
CO 3:	Gain confidence and enjoyment from involvement in the dynamic industry of event management.
CO 4:	Identify the key elements of a conference and the processes involved in venue selection, registration, catering, accommodation, transport, theming, security and entertainment.
CO 5:	Identify best practice in the development and delivery of successful conferences and corporate gatherings
Course Name :	Corporate Administration
Course Code:	CAD –C3
CO 1:	Students will posses knowledge about various company laws, different documents required to start up a company.
CO 2:	Demonstrate an ability to apply general Management know-how in practical business situations.
CO 3:	Develop an understanding of business that reflects the moral responsibility of management to all relevant stakeholders and the natural environment.
CO 4:	Understand the nature and dynamics of social behavior relating to organizational performance in order to develop strategies to become effective in organizations.
Course Name :	E – Business and Accounting
Course Code:	EBA-C3
CO 1:	Describe Internet trading relationships including Business to Consumer Business-to-Business, Intra-organizational.
CO 2:	Students know about information technology & applications of E-Commerce.

CO 3:	They can become Tally operator
Course Name :	E- Business Lab
Course Code:	EBA –P3
CO 1:	Demonstrate an understanding of the foundations and importance of E-commerce
CO 2:	Demonstrate an understanding of Accounting Package: 1. Analyzing branding and pricing strategies, 2. Using and determining the effectiveness of Accounting through the Tally Package. 3. Assessing the effects of disintermediation.
Fourth Semester	
Course Name :	Advanced Corporate Accounting
Course Code:	ACA-C4
CO 1:	It helps students to get into the professional courses like CA, CMA and CS. It also useful for higher education and employment
CO 2:	It Helps to know the Procedure for Mergers and Acquisition activities.
CO 3:	It Helps to know the Legal Formalities for Liquidation of a companies.
Course Name :	Financial Management
Course Code:	FM-C4
CO 1:	They can become financial manager & financial adviser.
CO 2:	Demonstrate an understanding of the overall role and importance of the finance function.
CO 3:	Demonstrate basic finance management knowledge.
CO 4:	Communicate effectively using standard business terminology.
Course Name :	Stock and Commodity Markets
Course Code:	SCM-C4
CO 1:	It helps students to get the knowledge regarding the investment and stock markets and it also motivates them to invest
CO 2:	Understanding the articulation of Commodities with the financial markets.
CO 3:	Learning what can be transmitted from the lessons learnt in the stock market while keeping at all times a focus on Supply/demand and other fundamental economic indicators.
Course Name :	Principles of Banking & Insurance
Course Code:	PBI-C4
CO 1:	Students will get employability skills of Banking Activities and Insurance to become a good leader in banking and insurance.
CO 2:	After going through this course, the students are expected to develop a clear understanding and knowledge about the functioning of a Commercial bank.
CO 3:	After theoretical inputs, the students will be taken for trainings to banks

	and insurance companies.
Course Name :	Human Resource Management
Course Code:	BMMC-C4
CO 1:	Students will understand the role of HRM in an Organization and also HRM System.
CO 2:	Contribute to the development, implementation, and evaluation of employee recruitment, selection, and retention plans and processes.
CO 3:	Administer and contribute to the design and evaluation of the performance management program.
CO 4:	Develop, implement, and evaluate employee orientation, training, and development programs.
Fifth Semester	
Course Name :	Income Tax –I
Course Code:	IT-C5
CO 1:	They can become tax consultant, Tax officer.
CO 2:	Good opportunity to go for professional courses like CA,CS & CMA.
CO 3:	By the end of the course students will be able to describe how the provisions in the corporate tax laws can be used for tax planning.
CO 4:	Students of the course will be able to explain different types of incomes and their taxability and expenses and their deductibility.
CO 5:	Students who complete this course will be able to learn various direct and indirect taxes and their implication in practical situations.
CO 6:	Students of the course will able to state the use of various deductions to reduce the taxable income
Course Name :	Cost Accounting
Course Code:	CA-C5
CO 1:	To facilitate the idea and meaning of material control with pricing methods.
CO 2:	Demonstrate how materials, labour and overhead costs are added to a product at each stage of the production cycle.
CO 3:	Develop the knowledge about remuneration and incentives.
CO 4:	Helps to gather knowledge on preparation of cost sheet in its practical point of view.
Course Name :	Management Accounting
Course Code:	MA-C5
CO 1:	To enlighten the students thought and knowledge on management Accounting.
CO 2:	Helps to give proper idea on financial statement analysis in practical point of view.
CO 3:	It also useful for higher education and employment.
CO 4:	To provide knowledge about budget control keeping in mind the scope of the concept.

Course Name :	Auditing & Corporate Governance
Course Code:	ACG-C5
CO 1:	Identify and be able to critically analyze the regulation of corporate governance including that in national and international codes of practice, legislation, common law, norms of practice and ethics.
CO 2:	Apply knowledge of corporate governance theories, regulation and the policy imperatives that underlie corporate governance regulation to assess and propose solutions for corporate governance problems.
CO 3:	Communicate factual and legal issues in relation to corporate governance arrangements and problems
Course Name :	Advanced Accounting
Course Code:	AA-C5.1
CO 1:	Students have been able to solve examples of amalgamation.
CO 2:	Students have mastered preparation of final accounts of banking companies and consolidated balance sheet.
CO 3:	It helps the students for higher education purpose and they learn accounting in depth.
Course Name :	Advanced Financial Management
Course Code:	AFM-C5.1
CO 1:	They can become finance manager & able to handle all financial related functions.
CO 2:	Critically evaluate the impact of financial decisions on the strategic direction of the organization.
CO 3:	Identify and evaluate the exposure of a company to financial risk and the techniques required to manage this risk.
CO 4:	Explain alternative sources of finance and investment opportunities and their suitability in particular circumstances.
Course Name :	Goods and Service Tax
Course Code:	GST-C5.2
CO 1:	Understand the impact of new regulation on distribution of pesticides and kind of changes needed to be done.
CO 2:	Gain an insight on the recording and analyzing the transactions for compliance under GST especially in supply chain & distribution.
CO 3:	Getting familiar with the technology and the flow of return filing under GST.
CO 4:	Knowing “place of supply rules” and applicability of the same under GST.
Course Name :	Financial Services
Course Code:	FS-C5.2
CO 1:	Students will develop the analytical skills this would facilitate the decision making in business situations.

CO 2:	To give an idea about fundamentals of financial services and players in financial sectors.
CO 3:	To create awareness about merchant banking, issue management, capital markets and role of SEBI.
CO 4:	To provide knowledge about leasing and hire purchase concepts.
Sixth Semester	
Course Name :	Income Tax –II
Course Code:	IT-C6
CO 1:	To develop an idea about capital gain among students.
CO 2:	To enlighten the concept of income from other source.
CO 3:	Enabling the students to have a fair idea on set-off and carry forward of losses.
CO 4:	To determine the concept of assessment of individual.
CO 5:	To equip the students with thoughts and points on assessment of firms.
Course Name :	Cost Methods
Course Code:	CM-C6
CO 1:	Define and apply management/cost accounting concepts.
CO 2:	Identify cost-volume-profit relationships and solve CVP functions.
CO 3:	Prepare and explain master budget and responsibility accounting.
CO 4:	Identify and analyze variances, flexible budgets and management control.
CO 5:	They can open their own independent cost office.
CO 6:	Identify and apply multi pool, multi driver costing method and activity-based costing.
CO 7:	Identify and apply job costing and allocation of overhead.
Course Name :	Legal Aspects of Business
Course Code:	LAB-C6
CO 1:	Make the students understand about business and corporate law.
CO 2:	Develop knowledge on contract and various types of contracts
CO 3:	Students will know the law regarding the business which helps them to analyze which is correct and wrong.
Course Name :	Investment Analysis and Portfolio Management
Course Code:	IAPM-C6
CO 1:	On the successful completion of this course the student will be able to Understand the various alternatives available for investment.
CO 2:	Learn to measure risk and return and Find the relationship between risk and return.
CO 3:	Value the equities and bonds and its Gain knowledge of the various strategies followed by investment practitioners.
CO 4:	To provide knowledge about portfolio investment and various theories in portfolio management.

Course Name :	Accounting for Managerial Decisions
Course Code:	AMD-C6.1
CO 1:	Identify the role and scope of financial and managerial accounting and the use of accounting information in the decision making process of managers.
CO 2:	Define operation and capital budgeting, and explain its role in planning, control and decision making.
CO 3:	Students will get knowledge regarding the managerial decisions in companies.
CO 4:	Prepare an operating budget, identify its major components, and explain the interrelationships among its carious components.
CO 5:	Use appropriate financial information to make operational decisions.
CO 6:	Demonstrate use of accounting data in the areas of product costing, cost behavior, cost control, and operational and capital budgeting for management decisions.
Course Name :	Corporate Financial Policy and Analysis
Course Code:	CFPA-C6.1
CO 1:	The course has a number of goals for the development of generic skills. After completing the course, the student should be able to analyze and frame problems in the financial area
CO 2:	understand and evaluate financial management related issues from an ethical perspective
CO 3:	The students will understand the essential aspects of financial decision making in business.
CO 4:	work effectively in team environments
Course Name :	Taxes of Other Entities
Course Code:	TOE-C6.2
CO 1:	Utilize the definitions of the various components of income tax law.
CO 2:	Complete federal income tax returns, including schedules to the Form 1040, and be able to calculate the correct amount of federal income tax.
CO 3:	Analyze simple fact situations and recognize income tax ramifications.
CO 4:	Apply basic tax concepts to simple fact situations and communicate potential income tax ramifications in writing and orally.
Course Name :	International Financial Management
Course Code:	IFM-C6.2
CO 1:	Understand international capital and foreign exchange market.
CO 2:	Identify risk relating to exchange rate fluctuations and develop strategies to deal with them.
CO 3:	Identify and evaluate foreign direct investment and international acquisition opportunities.
CO 4:	Develop strategies to deal with other types of country risks associated with foreign operations

CO 5:	Express well considered opinion on issues relating to international financial management.
CO 6:	Identify and appraise investment opportunities in the international environment

Master of Arts in English

Programme Outcomes(POs)

The MA English Programme enables students to:

PO1:Demonstrate knowledge of the various socio-political, historical and cultural factors that surround a text.

PO2:Learn the theoretical foundations and research methods in advanced literary studies, and gain expertise in specific genres, periods and topics in the field.

PO3:Engage in discussions about canonicity, marginalization, race, subaltern, gender, colonization that envelop texts.

PO4:Critically analyze how written, digital, visual and spoken texts shape and are shape by diverse local, national, global, historical, aesthetic and ideological contexts.

PO5:Contribute academically to interdisciplinary and trans-disciplinary methodologies and studies.

PO6:Make critical studies of visual texts and examine the relevance of popular culture.

PO7:Enhance academic skills, contribute to research, and succeed in competitive exams like the UGCNET.

PO8:Learn to participate in advanced professional activities like publications, conferences, research projects.

PO9:Take up careers in the field of Journalism, Publishing, Advertising, Teaching, Content Writer & Technical Writer.

Course Outcomes

MA in English- Semester I

Course Name:	Introduction to European Literatures
Course Code:	MAE 1.1
CO 1:	Introduces students to the idea of Europe –as a geographical location and as places with distinct cultural centres.
CO 2:	Demonstrates the notion of cultural differences that exists within Europe. The emphasis is on plurality within Europe and so, introduces the student to distinctive literatures of Europe.
CO 3:	Presents literary concepts, those of which emanate from the aims of the paper—classical, classicism, drama, renaissance, world literature, realism etc.
Course Name:	British Literature I
Course Code:	MAE 1.2
CO 1:	Provides an overview of the history of English literature.
CO 2:	Introduces the movements from the middle Ages to the Neo-classical period.
CO 3:	Enables students to identify the major genres of literature such as; poetry, prose and drama.
CO 4:	Assists students to read literature with increased critical acumen.
Course Name:	India Studies I

Course Code:	MAE 1.3
CO 1:	Analyzes the history of India.
CO 2:	Engages with socio-political-religious movements in India.
CO 3:	Examines the presence of English in Indian Literature.
Course Name:	World Writing: An Exploration I
Course Code:	MAE 1.4
CO 1:	Assesses the literature of the world through select themes of Writing Travel, Sports, Entertainment, and Politics.
CO 2:	Critiques the socio-political-historical-cultural facets of the world.
CO 3:	Evaluates the select themes through literary and visual texts.
Course Name:	English Language Education I
Course Code:	MAE 1.SC1
CO 1:	Acquires basic concepts in linguistics
CO 2:	Relates concepts from linguistics to language teaching
CO 3:	Enhance research skills in language and linguistics
CO 4:	Exposes the development of English language teaching and learning in Indian context
MA in English- Semester II	
Course Name:	British Literature II
Course Code:	MAE 2.1
CO 1:	Introduces students to the movements from Romanticism to Modernism.
CO 2:	Highlights the movements and the key concepts related to the movements.
CO 3:	Enables students to demonstrate knowledge of the major social, political, philosophical, and scientific events of the Victorian Period.
CO 4:	Critiques key works of the Romantic, Victorian and the Modern periods in English Literature.
Course Name:	British Literature III
Course Code:	MAE 2.2
CO 1:	Establishes the movements from Modernism to Postmodernism.
CO 2:	Introduces students to Literary Criticism as a foundation study for the Critical Theory paper of Semester III.
CO 3:	Explains Popular Culture through texts.
CO 4:	Prepares students for the papers of Semester III –Postcolonial Studies & Gender Studies.
CO 5:	Enables students to write papers that construct logical and informed arguments.

CO 6:	Prepares students to make effective oral presentations and arguments acceptable within the English professions.
Course Name:	India Studies II
Course Code:	MAE 2.3
CO 1:	Evaluates the modern history of India.
CO 2:	Examines postcolonial India through local, regional and national texts.
CO 3:	Critically assess the contemporary scenario of India.
CO 4:	Prepares students to make effective arguments.
Course Name:	World Writing: An Exploration II
Course Code:	MAE 2.4
CO 1:	Assesses the literature of the world through select themes of Crisis & Multiculturalism, Art & Aesthetics, Science & Order, Ethnicity & Belief
CO 2:	Analyzes connections between literature and other disciplines.
CO 3:	Employs the skills of close reading, interpretation, synthesis, and critical analysis to the reading of texts across multiple cultural and linguistic traditions, various historical periods and multiple genres.
Course Name:	English Language Education II
Course Code:	MAE 2.SC2
CO 1:	Creates a clear overview of the relationship of language and society at the micro- and macro-levels from a descriptive and theoretical viewpoint.
CO 2:	Prepares the learners with the necessary background on language teaching theories and to introduce various theoretical perspectives that underlies the teaching of a second language.
CO 3:	Applies innovative methods in English language teaching
MA in English- Semester III	
Course Name:	Critical Theory
Course Code:	MAE 3.1
CO 1:	Introduces students to the field of literary theory, a central component of contemporary studies in English and world literature.
CO 2:	Discusses the various premises and methods available as a critical reader of literature.
CO 3:	Identifies key questions that have animated - and continue to animate - theoretical discussions among literary scholars and critics, including issues pertaining to ideology, cultural value, the patriarchal and colonial biases of Western culture and literature, and more.
	MA in English- Semester III
Course Name:	Gender Studies I

Course Code:	MAE 3.2
CO 1:	Evaluates Gender Studies as a discipline that enables comprehension, interpretation and situating 'gendered experiences' .
CO 2:	Assesses the discourses of 'body' and 'gender' as situated in a context (social/ political/ science/ anthropology/ literary/ etc..)
CO 3:	Identifies the discourses of gender and sexuality in different cultural backgrounds .
CO 4:	Interrogates cultural differences of race, caste and class in literary texts with special reference to the concepts 'sex', 'sexuality' and 'gender'
CO 5:	Prepares students with reading, writing and analytical skills by introducing them to pedagogy in gender studies.
CO 6:	Designs research possibilities in the discipline of Gender Studies.
Course Name:	Postcolonial Studies I
Course Code:	MAE 3.3
CO 1:	Discusses colonial and postcolonial literature and theory.
CO 2:	Critiques texts within a postcolonial framework.
CO 3:	Explains concepts of language, identity, point of view, displacement, physical and mental colonization, and decolonization.
CO 4:	Develops interpretative skills of close reading.
Course Name:	Writing & Research Methods
Course Code:	MAE 3.4
CO 1:	Prepares students with skills in various aspects of dissertation writing.-a preparation for dissertation writing in Semester IV.
CO 2:	Enables students define the academic style, reference strategies and recognize the academic voice.
CO 3:	Supports students to develop a range of writer's 'tools'.
CO 4:	Assists students to complete a critical literature summary.
CO 5:	Helps students summarize their research.
CO 6:	Demonstrates how to develop the research hypothesis.
Course Name:	American Literature
Course Code:	MAE 3.SC3
CO 1:	Introduces students to the history of America.
CO 2:	Identifies key ideas, representative authors and works, significant historical or cultural events and characteristic perspectives or attitudes expressed in the literature of different periods and regions.
CO 3:	Analyzes literary works as expressions of individual or communal values within the social, political, cultural, or religious contexts of different literary periods.
CO 4:	Evaluates the literary merits of Asian and Asian American literature.

CO 5:	Demonstrates improvement in critical writing and critical thinking skills through interpretation and comparative analysis of literary texts.
Course Name:	Professional Communication
Course Code:	OE
CO 1:	Develops professional communication skills focusing on employability skills.
CO 2:	Provides training in personality development, Interview skills and soft skills .
CO 3:	Facilitates the students with good written communication.
CO 4:	Enhances the students' ability to make effective presentations.
MA in English- Semester IV	
Course Name:	Gender Studies II
Course Code:	MAE 4.1
CO 1:	Evaluatetheconnect between gender, sexuality, power and subalternity.
CO 2:	Situates gender and sexuality in broader historical and geopolitical contexts.
CO 3:	Identifies, compares and evaluates culturally and historically specific construction of gender and gender roles
CO 4:	Recognizes the role of media in creating and promulgating the idea of body, gender and masculinity, femininity.
Course Name:	Postcolonial Studies II
Course Code:	MAE 4.2
CO 1:	Identifies key questions, authors, and literary forms in postcolonial literature
CO 2:	Critically examine texts in relation to postcolonial theory.
CO 3:	Situate texts in their larger cultural contexts.
CO 4:	Offers nuanced interpretations, articulates coherent arguments, and develop research skills through written essays
Course Name:	Dissertation
Course Code:	MAE 4.3
CO 1:	The dissertation work is integral in passing the course and it serves as the final test of students' capability to work independently and think critically.
CO 2:	The dissertation work gives the student the chance to use the research and writing skills that she or he learned in the programme. It pushes a student to express herself/himself authoritatively and fluently in writing.
CO 3:	The dissertation is a proof that the student has gained knowledge in the field and is capable of showing original and meaningful thinking.
CO 4:	The dissertation work will prepare students for the next level of research

	practice.
CO 5:	The presentation of the dissertation will show the student's mastery of the chosen topic as well as her/his speaking and thinking skills.
CO 6:	The dissertation work gives an opportunity to work individually with a member of the faculty. Faculty partnership results in a kind of mentoring that is useful for students.
Course Name:	Folkloristics
Course Code:	MAE 4.SC4
CO 1:	Explains how folk literature differs from literature.
CO 2:	Distinguishes the different genres of folk literature from one another.
CO 3:	Evaluates the historical evidence for a select legend.
CO 4:	Analyzes folk tales according to the cultural functions of folk literature.
CO 5:	Identifies folklorists and authors of literary fairy tales and their works.
CO 6:	Compares the motifs found in folk tales with those in literary fairy tales and films.
Course Name:	Film Studies
Course Code:	MAE 4.SC5
CO 1:	Enables the students to recognize cinema as a Discipline of study and encourage a personal engagement with it
CO 2:	Explains the various genres, select experiments and movements of cinema and their significance
CO 3:	Encourages the students to understand the impact of the film as visual medium, as an art form and its discourses

MA in Economics

Programme Outcomes

The MA Economics Programme enables students to:

P01: Explain important concepts and theoretical frameworks in their respective disciplines.

P02: Contribute to research activities, related to both academics and industry-based.

P03: Conduct inter-disciplinary & trans-disciplinary research with the focus on innovation.

P04: Make critical assessments and judgments.

P05: Analyze qualitative and quantitative data.

P06: Develop academic skills appropriate for teaching.

P07: Succeed in competitive examinations like NET, KSET etc.

P08: Identify their own position on the ethical and democratic spectrum.

Course Outcomes

First Semester

Course Name:	Advanced Micro Economics –I
Course Code:	MAEC 1.1
CO 1:	The students will be able to develop the basic concepts of microeconomics skills to analyse problems of economic policy.
CO 2:	Able to evaluate the basic principles of microeconomics, the marginalist approach and the justification of mathematical models to describe consumer and firm behaviour.
CO 3:	Able to analyse the price, output and efficient functioning of different markets.
CO 4:	To enable the student to apply the micro economic theories in analysing real world micro issues.
CO 5:	Able to understand consumer and producer behaviour.
CO 6:	Students will be able to remember the basic concepts of micro economics.
Course Name:	Mathematical Applications in Economics
Course Code:	MAEC 1.2
CO 1:	To enable the students to develop economic concepts with the aid of mathematical tools.
CO 2:	To determine the use of derivatives and integration concepts for economic analysis.
CO 3:	Able to critically analyse the substantive theories and create models for understanding economic behaviour.
CO 4:	Able to apply mathematical tools for economics analysis.
CO 5:	By the end of the course successful students are expected to understand how mathematical concepts aid in understanding optimization in economics.
CO 6:	Students are expected to remember basic mathematical techniques and be in preparation for learning Econometrics.

Course Name:	Advanced Macro Economics –I
Course Code:	MAEC 1.3
CO 1:	The students will be able to develop the basic concepts of macroeconomics skills to analyse problems of economic policy.
CO 2:	To enable the students to evaluate the theoretical framework that explains the working of an economy as a whole.
CO 3:	Able to critically analysis of classical& Keynesian theories of output and employment.
CO 4:	To enable the student to apply the macro economic theories in analysing real world macro issues.
CO 5:	By the end of the course, successful students are expected to understand how macroeconomic variables like income, employment, and prices are determined and what the factors that influence them are.
CO 6:	Students will be able to remember the basic concepts of macroeconomics.
Course Name:	Research Methods in Economics
Course Code:	MAEC 1.4
CO 1:	Students are able to formulate a research design.
CO 2:	Students will be able to choose the different research techniques for data collection.
CO 3:	Able to analyse and interpret empirical data with the help of statistical tools.
CO 4:	Able to use different research approaches and methodologies.
CO 5:	Students will be able to understand research approaches and methodologies which are used to do research in the field of social science.
CO 6:	Students are expected to remember a research design and to identify the research techniques.
Course Name:	ECONOMIC ISSUES OF THE POST-REFORM PERIOD
Course Code:	MAEC T1
CO 1:	Students are trained on to prepare report writing and paper presentation related economic issues of the post reform period.
CO 2:	Able to compare economic issues of the post reform period with pre reform period.
CO 3:	Able to critically review the performance of Indian economy in the post-reform period.
CO 4:	Able to communicate effectively in written or spoken about specific economic issues of the post reform period. Which is used in the field of education to work as a professor, lecturer.
CO 5:	To enable the students to understand economic issues of the post reform period also to make better power point presenter.
CO 6:	The student will be able to identify solution related economic issues of the post reform period.

Second Semester

Course Name:	Advanced Micro Economics -II
Course Code:	MAEC 2.1
CO 1:	The students will be able to develop micro economic concepts, relating to markets, factor pricing, distribution and economies of uncertainty.
CO 2:	To able to evaluate advanced principles of micro economics.
CO 3:	Critically evaluation of theories relating welfare economics.
CO 4:	Demonstrate an appreciation for the role of the owner stakeholder and the economic and ethical responsibilities involved. Understand game theory and apply it for various strategic decision-making.
CO 5:	To able to understand general equilibrium & economic efficiency & welfare.
CO 6:	Students will be able to remember the advanced concepts of micro economics.
Course Name:	Statistical Applications in Economics
Course Code:	MAEC 2.2
CO 1:	To enable the students to develop economic concepts with the aid of statistical tools.
CO 2:	Able to choose Univariate and Bivariate tools for data analysis
CO 3:	To analyse and interpret empirical data with the help of statistical tools.
CO 4:	To enable students to apply statistical techniques in economics.
CO 5:	Able to understand use of statistical tools especially when planning a project.
CO 6:	By the end of the course, successful students are expected to remember basic statistical techniques and be in preparation for learning Econometrics.
Course Name:	Advanced Macro Economics -II
Course Code:	MAEC 2.3
CO 1:	The students will be able to develop the advanced concepts of macroeconomics skills to analyse problems of economic policy.
CO 2:	Able to evaluate the effectiveness of macroeconomic policies in tackling fundamental economic issues.
CO 3:	To provide an understanding of the analysis made by prominent macro economists on various macroeconomic concepts.
CO 4:	To able to implementing monetary and fiscal policies during economic fluctuations in the economy.
CO 5:	By the end of the course successful students are expected to understand how money and monetary policy influences income determination and aggregate prices.
CO 6:	Students will be able to remember the role of monetary and fiscal policies in economic stabilisation.

Course Name:	Development economics
Course Code:	MAEC 2.4
CO 1:	Students will be able to develop various models of economic development.
CO 2:	Able to evaluate economic problems of developing countries.
CO 3:	Students will be able to critically analyse growth and development strategies..
CO 4:	Able to introduce the modern tools for measuring economic growth& development
CO 5:	To provide knowledge about important issues in development and to learn about choices regarding technology and investment.
CO 6:	By the end of the course, successful students are expected to remember various models, techniques of economic development.
Course Name:	ENVIRONMENTAL ECONOMICS
Course Code:	MAEC T2
CO 1:	Students are trained on to prepare report writing and paper presentation related environmental economics.
CO 2:	The student will be able to determine the factors influence on environmental protection.
CO 3:	Critically analysis the steps taken by the central and the state governments to protect environment in the country.
CO 4:	Students will able to apply economic approaches to analyze policy options to better manage the environment at both the local and global levels.
CO 5:	To enable the students to understand presentation and writing skills about environmental issues for public and academic engagement also to make better power point presenter.
CO 6:	The student will be able to identify solutions to environmental issues.
Third Semester	
Course Name:	Public Economics
Course Code:	MAEC 3.1
CO 1:	To create an awareness about basics of financial governance.
CO 2:	To able to evaluate fiscal administration & public governance in India.
CO 3:	Critically assess Indian tax policy from practical and theoretical economic perspectives.
CO 4:	To enable the student to realize rights and responsibilities of citizens.
CO 5:	Acquire knowledge about budgets, budgetary procedures; stabilization instruments, debt issues and the taxation structure.
CO 6:	The students will be able to remember the fundamental theories of public economics, reasons for market failure and taxation.
Course Name:	Econometrics
Course Code:	MAEC 3.2

CO 1:	The students will be able to build econometric models using time series data and panel data and estimate the same using econometric software.
CO 2:	Able to choose econometric models for quantitative analysis in economics
CO 3:	Able to analyse use of econometric models for data analysis in MS Excel.
CO 4:	The students will be in a position to develop, estimate and interpret econometric models and to draw the policy implications to help decision makers.
CO 5:	Able to understand how econometrics can also be used to try to forecast future economic or financial trends.
CO 6:	Able to remember econometrics models for quantitative analysis in economics
Course Name:	Economics and Law
Course Code:	MAEC 3.3
CO 1:	Able to create awareness about economics of law and legal institution in India.
CO 2:	Able to distinguish between the different types of law related to economics.
CO 3:	Students will be able to analyse how Law governs economy, logic and thinking.
CO 4:	Acquire the ability to apply such knowledge to address issues in practical case scenarios To understand economics theory of crime and punishment.
CO 5:	The students will be able to understanding of the provisions of different economic laws concerned with Consumer activities, Business Organizations, Environment, International Relations etc.
CO 6:	To remember the relationship between economics and law.
Course Name :	Financial Economics
Course Code:	MAEC 3.4
CO 1:	To enable the student to learn the new financial innovations.
CO 2:	To evaluate the organization and development of the Indian financial system.
CO 3:	The students will be able to analyse issues related to finance.
CO 4:	Able to apply such financial knowledge to address issues in practical case scenarios.
CO 5:	To able to understand international aspects of the Indian financial system.
CO 6:	To enable the student to remember the basics of the working of the financial system.
Course Name:	Sociology of Economic Life
Course Code:	MAEC T3
CO 1:	Students are trained on to prepare report writing and paper presentation related sociology of economic life.
CO 2:	Able to determine the social factors which influence on Indian economy.

CO 3:	Students will be able to analyse beliefs, norms, and institutions that shape and drive the Indian economy.
CO 4:	Students will be able to communicate effectively in written or spoken about relationship between economy and society. Which is used in the field of education to work as a professor, lecturer also make better power point presenters.
CO 5:	Able to understand an introduction to economic sociology as an approach and research programme to understand the relationship between economy and society in the modern era.
CO 6:	To remember how beliefs, norms, and institutions that shape and drive the Indian economy.
Course Name:	Economics of Tourism
Course Code:	OE
CO 1:	To create awareness about historical development of travel and tourism and role of tourism in economic development.
CO 2:	Able to Identify the major components of travel and tourism industry.
CO 3:	Analyze economic impact of travel and tourism.
CO 4:	The students gain knowledge about products, structures and operations within the tourism industry to pursue their career in the industry can choose to work for travel agencies, government tourism departments, tour operations, immigration and customs services, airlines, hotels etc...
CO 5:	Impart knowledge about role of tourism in economic development.
CO 6:	To enable the student to remember the basic concepts of tourism.
Fourth Semester	
Course Name:	INDIAN ECONOMY
Course Code:	MAEC 4.1
CO 1:	To develop knowledge about Indian economic problems in the light of relevant economic theories and in a comparative perspective.
CO 2:	Able to evaluate economic planning in India also structural changes in economy.
CO 3:	To enable the students to comprehend and critically appraise the current trends and issues in the economy.
CO 4:	To active participants to implementation of economic policies for development of Indian economy.
CO 5:	To able to understand nature of Indian economy, infrastructure and economic development, role of agriculture in Indian economy.
CO 6:	The course will be helpful for the students to understand and remember how the economy is run.
Course Name:	COMPUTER APPLICATIONS FOR ECONOMICS
Course Code:	MAEC 4.2
CO 1:	To modify the statistical software packages, sound practical skills

	addressing problems which arise from computer systems and applications.
CO 2:	Able to choose office packages like data processing, software for documentation, calculation and presentation.
CO 3:	Bridging between theoretical and practical aspects with the help of computer application.
CO 4:	To apply the statistical software packages, R-Software in IT companies for day to day operations.
CO 5:	Students will be able to understand the concept of data analysis by using computer applications.
CO 6	To remember basic knowledge of computer and its application.
Course Name:	INTERNATIONAL ECONOMICS
Course Code:	MAEC 4.3
CO 1:	Develop a deeper understanding of the different theories of international trade.
CO 2:	To enable the students to evaluate the emerging trends, issues and policies in the field of international economics.
CO 3:	Students will be able to analyze a nation's balance of payment, foreign exchange markets, and international financial institutions and explain financial crises in emerging economies, their causes and solutions.
CO 4:	To enable the students to apply the different tools very much required in international trade, working of the international system to become a foreign trade analyst, export promoter.
CO 5:	Students would be armed with the knowledge of using different tools very much required in international trade.
CO6:	The students will be able to remember the matters related to trade policy and the impact on the global economy.
Course Name:	INFRASTRUCTURE ECONOMICS
Course Code:	MAEC 4.4
CO 1:	Develop a deeper understanding of the different components of infrastructure.
CO 2:	Able to determinethe factors to infrastructure development.
CO 3:	To analyse the role of energy and health as a critical component of infrastructure, the definition, types, relevance and main components of infrastructure.
CO 4:	Able to face the challenges faced by the infrastructure development and to identify solutions.
CO 5:	To understand the obstacles to the development of infrastructure, both physical and social.
CO 6	Able to remember the role of infrastructure in economic development.
Course Name:	Project Work
Course Code:	MAEC P1
CO 1:	Students develop research skills and to conduct independent field survey on economic issues also prepare for writing the research project.

CO 2:	Able to discuss limitations and potential contribution to theory and practice of research.
CO 3:	Able to analyses research problems, apply various research methods/tools related to their topics or problem.
CO 4:	Able to preparing independent research project and used such knowledge to do their Ph.D. in future also promote research work related to government projects..
CO 5:	Students will be able to understand research approaches and methodologies which are used to do research in the field of social science.
CO 6:	Students are expected to remember a research design and to identify the research techniques.

Master of Arts in Kannada:

The MA Kannada Programme enables students to:

- Explain important concepts and theoretical frameworks in their respective disciplines.
- Contribute to research activities, related to both academics and industry based.
- Conduct Inter-disciplinary & Trans-disciplinary Research with the focus on innovation.
- Make critical assessments and judgments.
- Analyze qualitative and quantitative data.
- Develop academic skills appropriate for teaching.
- Succeed in competitive examinations like NET, KSET etc.
- Identify their own position on the ethical and democratic spectrum.

MA in Sociology

Programme Outcome

The MA Sociology Programme enables students to:

P01: Actively acquire the ability to analyse the origins and structure of sociological theory and demonstrate their grasp of theory through course writings, discussion, and presentations.

P02: Demonstrate the ability to compare and contrast the differing theoretical perspectives, noting strengths and weaknesses inherent in each through seminar writings, discussion, and presentations.

P03: Learn about and actively reflect on the role of theory in sociological research. Be able to evaluate contemporary sociological theories and apply them to social research questions.

P04: Enables the ability to develop a research question, contextualize their topic in a theoretical framework, and develop a research design or analytical research review plan to investigate their research question.

P05: Develop academic skills appropriate for teaching.

P06: Succeed in competitive examinations like NET, KSET etc.

P07: Identify their own position on the ethical and democratic spectrum.

Course Outcome

First Semester

Course Name:	Classical Sociological Tradition-I
Course Code:	MAS 1.1
CO 1:	Positivist & Anti-positivist methodology provides critical aptitude among the Learners. It is Sociological Imagination that is instilled in their mind.
CO 2:	By reading classics in Sociology, writing and communicative skills become far better than what they used to be. Sociological terminology preponderates in their day-to-day parlance.
CO 3:	Social interactive mode is enhanced through participatory method in the classroom. Discussions become more learner centric as many of their latent doubts are clarified.
CO 4:	Topics like 'Theorizing after French Revolution' opens up a critical thinking about democratic process, value of liberal thought like Liberty, Equality, Fraternity, in a multi group society like ours. It instills empathy for multi-cultural groups and need for national integration.
CO 5:	While learning Durkheim's Education and Morals, learners are introduced to value system, & how values are important in sociological decisions.
CO 6:	Discussion on classics make them to scan through the Fundamental Rights enshrined in our Constitution, particularly their responsibility towards the preservation of natural environment
CO 7:	The nature of the field of sociology itself is oriented to looking for new possibilities and learning as a way to deal with unknown situations rather than the appropriate application of objective facts.

CO 8:	Sociological knowledge of the social context leads to most comprehensive element of self-directed lifelong learning that contributes to a truly democratic society. Moreover, multi-dimensional learning in Sociology creates opportunities for lifelong, self-directed learning.
Course Name:	Methodology & Techniques of Social Research
Course Code:	MAS 1.2
CO 1:	Inductive and Deductive Reasoning techniques inculcated in this paper make learner to be more skeptical. Object of the paper itself is to bring about objective and positive critical thinking among the learners.
CO 2:	When conducting qualitative interviews, the expert use of triangulation of communication skills will enhance the quality and quantity of data gathered. To this end, this paper aims at education and practice of using communication skills to best effect, in order to ensure the validity and completeness of their data.
CO 3:	Research in the social sciences itself is to explore social interactions, systems and processes. It provides an in-depth understanding of the ways people come to understand, act and manage their day-to-day situations in particular interactive settings.
CO 4:	The top-down approach to the notion of citizenship often used in Methodology paper, is aimed to examine the ways in which official policies and naturalization processes are being understood and negotiated by the people involved. From Sociological point of view project is drawn upon as an early social constructionist approach to the study of citizenship in social science, highlighting the complexity, ambiguity and ambivalence of 'citizenship in action'
CO 5:	Ethics is an integral part of Research. Many of the norms of research promote a variety of other important moral and social values , such as social responsibility, human rights, animal welfare, compliance with the law, and public health and safety. Objectivity, accountability, mutual respect, and fairness are the cardinal principles taught in this paper.
CO 6:	Several Case studies and Survey reports introduce the students to the importance of Environment and sustainability
Course Name:	Approaches to the Study of Indian Society
Course Code:	MAS 1.3
CO 1:	An insight into multi-group, multi-cultural milieu of Indian society makes the learner to develop objective, secular and critical thinking.
CO 2:	Different perspectives to Indian Society and the articles and discourses to which learners are exposed would better their communicative skills.
CO 3:	Discussion on Multi-culturalist secular model and communal, parochial problems stimulate interactional amplification in the classroom. Even silent spectators in the class are stimulated to enter into the debate.

CO 4:	Functioning of Constitutional Democracy in a multi group society is a part of the syllabus. It stimulates empathy various groups and make learners to understand need for national integration.
CO 5:	Ethics is an integral part of the Sociological study of Indian society. Contributions of G.S. Ghurye, Radha Kamal Mukherjee, Ananda Coomara Swamy, Iravati Karve, M.N. Srinivas make the learners to understand Indian ethics and ethical principles for a researcher and participant observer in multi-caste, multi-religious and multi-linguistic rural and urban settings.
CO 6:	Indian eco system, Environmental protection and sustainability are discussed at various levels and particularly when there is a polemic against exclusion and discourse on inclusive strategies of development.
CO 7:	A study of Indian society entails a sensitization of the working of Indian Democratic order and it is imperative that students ponder over the current issues of transfer of technology to agriculture and other fields. Example: Green Revolution, High yielding variety of seeds, organic farming etc.,
Course Name:	Sociology of Social Movements
Course Code:	MAS 1.4
CO 1:	This paper introduces the learner to social change through collective enterprise. A student will be able to critically engage in analyzing ethos of movements and counter movements. Critically analyzedifferent varieties of Feminist and Neo-environmentalist movements.
CO 2:	Theories of social movements such as Relative deprivation, Structural Strain etc., equip the parlance of students with new concepts and syntax of writing and speaking.
CO 3:	A study of Reformative movements, Dalit movements, Peasant and Tribal revolts and the ideological dilemmas make students mote active in their interactional participation.
CO 4:	A study of different phases of Indian Freedom struggle is ample in inculcating the national spirit and appreciation of Constitutional Democracy.
CO 5:	There are quite a lot of opportunity for the students to learn about human rights and values by reading the movements carried out by Buddha, Basaveshvara, Mahatma Phule, Shri Narayana Guru, Dr. Ambedkar, and Mahatma Gandhi. Gandhiji's philosophy of Truth and non-violence has particular saliency in this regard.
CO 6:	Movements like Silent-valley, Bishnoi, Chipko, Narmada Bachao Andolan etc., cater to the proper understanding of Environmental protection, preservation of biodiversity and ecological balance, and the goals of sustainable development.
CO 7:	A knowledge of the ideology of Religious movements of recent past will entail independent and life-long learning amidst modern mess of socio-technological changes.

Course Name:	Environment and Society
Course Code:	MAS SC1
CO 1:	The paper is very specific about developing critical thinking about local and global environmental issues like depletion of natural resources, climate change, Greenhouse effect etc.,
CO 2:	A study of this paper equips students with many concepts used by scientific fraternity related to eco system and environment.
CO 3:	The proceedings of world summits (UNCHE) 1972, (UNCED) 1992, (Earth Summit II) 1997, (WSSD) 2002 etc., make students very actively participate and interact in discussions.
CO 4:	Learning of Environment Protection movements and UNESCO Ecological Heritage sites in India make the students feel proud and think of their role as citizens in protecting the nation's ecosystem.
CO 5:	Life and Works of M.K. Gandhi, Sunderlal Bahuguna, Dr. Shivarama Karanth, etc., imbibe ethical responsibilities towards our natural and social environment.
CO 6:	A sizable portion of literature of this paper pertains to Environmental Protection and Sustainable Development.
CO 7:	This paper initiates a debate on Technology and Development- pros and cons.

Second Semester

Course Name:	Classical Sociological Tradition-II
Course Code:	MAS 2.1
CO 1:	Positivist & Anti-positivist methodology provides critical aptitude among the Learners. It is Sociological Imagination that is instilled in their mind.
CO 2:	By reading classics in Sociology, writing and communicative skills become far better than what they used to be. Sociological terminology preponderates in their day-to-day parlance.
CO 3:	Social interactive mode is enhanced through participatory method in the classroom. Discussions become more learner centric as many of their latent doubts are clarified.
CO 4:	Topics like 'Theorizing after French Revolution' opens up a critical thinking about democratic process, value of liberal thought like Liberty, Equality, Fraternity, in a multi group society like ours. It instills empathy for multi-cultural groups and need for national integration.
CO 5:	While learning Methodology of Max Weber, learners are introduced to value system, & how values are important in sociological decisions.
CO 6:	Discussion on classics make them to scan through the Fundamental Rights enshrined in our Constitution, particularly their responsibility towards the preservation of natural environment
CO 7:	The nature of the field of sociology itself is oriented to looking for new possibilities and learning as a way to deal with unknown situations rather than the appropriate application of objective facts.

CO 8:	Sociological knowledge of the social context leads to most comprehensive element of self-directed lifelong learning that contributes to a truly democratic society. Moreover, multi-dimensional learning in Sociology creates opportunities for lifelong, self-directed learning. Positivist & Anti-positivist methodology provides critical aptitude among the Learners. It is Sociological Imagination that is instilled in their mind.
Course Name:	Sociology of Development
Course Code:	MAS 2.2
CO 1:	A thorough study of 'Development discourse' in India and elsewhere makes learners to be critical in their thinking and attitude.
CO 2:	Many new concepts are added to the armory of learners' communicative skills. They start using such concepts in their day to day parlance.
CO 3:	Social interactive mode is enhanced through participatory method in the classroom. Discussions clarify many of their doubts on development issues of the country.
CO 4:	The articles on current development issues and models, make them empathetic about displaced groups in the society.
CO 5:	The main objectives of this paper are to generate an interest in social values and humanitarian attitude.
CO 6:	Constitutional predicaments and programmes undertaken by the state instill in the learner the social responsibility and civic rights towards their environment.
CO 7:	Technology and Development initiatives have created a plethora of negative consequences. A glance at these would make them to undertake cost-benefit analysis of the development programmes and become alert of irrational application of technology.
Course Name:	Social Demography with reference to India
Course Code:	MAS 2.3
CO 1:	This paper is very specific about developing critical thinking about local and global population issues like overcrowding and consequences of the increasing density, imbalance in sex ratio, literacy levels, problems of migration etc.,
CO 2:	Qualitative and quantitative terminology related to social demography make their understanding population related issues and better their writing and speaking skills.
CO 3:	A study of national and global fluctuation in the demographic rates and composition of population triggers the interpersonal interactive mode not only within classroom but also in debates outside it.
CO 4:	Vital statistics in certain sectors of the society, consequent poverty, unemployment, uneven sex ratio, health indices etc., make them empathetic towards marginalized sections of the population, make more responsible citizens of the society.

CO 5:	Ethical issues pertaining population dynamics are of particular saliency in the study of social demography.
CO 6:	The paper highlights the increased vulnerability to climate change of impoverished populations in the country a finding that echoes an earlier analysis, exploring population growth considerations Adaptation Plans of Action. The study seeks to restore the issue of population and its relationship to environment, sustainability and population health to prominence.
CO 7:	Internal/external control personality traits have a significant correlation with demography. Personality traits are also changed through learning, and age, gender, and educational degree will influence personality traits and self-directed learning ability.
Course Name:	Theoretical Perspectives in Sociology-I
Course Code:	MAS 2.4
CO 1:	A study of Classical and Post-modern theories has a strong bearing on critical perception and judgements of the pupils.
CO 2:	Effective communication is imperative in understanding and articulating post-modern and post-colonial theoretical models.
CO 3:	Micro sociological theories like Symbolic Interactionism equip students with better modes of interactions at the interpersonal settings.
CO 4:	Political issues discussed in various sociological perspectives make students self-critical and sensitize them toward their role as effective citizens.
CO 5:	Ethical problems involved in the diverse methodology influence their judgements to be ethically neutral, non-partisan, non-parochial.
CO 6:	Critical theory and Risk theory are two specific perspectives which draw the attention of the learners to environment and sustainability issues.
CO 7:	Some of the theoretical underpinnings have far reaching effect on the personality. Personality traits are also changed through learning, and age, gender, and educational degree will influence personality traits and self-directed learning ability.
Course Name:	Sociology of Education
Course Code:	MAS SC3
CO 1:	Sociological and Philosophical thoughts on Education provides a strong basis for critical thinking.
CO 2:	Pedagogic exercises that the paper entails would address better communicative skills of the learners.
CO 3:	Pedagogic exercises like Group discussion, Role play would involve pupils actively in interactive sessions.
CO 4:	History of Educational thought & practice will provide a firm ground for effective citizenship.
CO 5:	Ethics and Pragmatism are integral part of Sociology of Education
CO 6:	Without inter-generational education, very little in a human context can

	be sustainable. Education for sustainable development (ESD) promotes the development of the knowledge, skills, understanding, values and actions required to create a sustainable world, which ensures environmental protection and conservation, promotes social equity and encourages economic sustainability.
CO 7:	Instructional strategy where the students, with guidance from the teacher, decide what and how they will learn. It can be done individually or with group learning, but the overall concept is that students take ownership of their learning.

Third Semester

Course Name:	Advanced Sociological Theory
Course Code:	MAS 3.1
CO 1:	Paper is designed to the critique of modernity in the works of Theodor Adorno and Max Horkheimer of the Frankfurt School
CO 2:	New concepts like Hegemony, Habitus etc., and ideology of critical theory help them to enhance their linguistic abilities.
CO 3:	Micro sociological theories like Symbolic Interactionism equip students with better modes of interactions at the interpersonal settings.
CO 4:	Political issues discussed in Neo-Marxian and critical theories make students self-critical and sensitize them toward their role as effective citizens.
CO 5:	Ethical problems involved in the diverse methodology influence their judgements to be ethically neutral, non-partisan, non-parochial.
CO 6:	Critical theory and Risk theory are two specific perspectives which draw the attention of the learners to environment and sustainability issues.
CO 7:	Some of the theoretical underpinnings have far reaching effect on the personality. Personality traits are also changed through learning, and age, gender, and educational degree will influence personality traits and self-directed learning ability.
Course Name:	Gender and Society
Course Code:	MAS 3.2
CO 1:	An attempt is made to eliminate Gender Bias & critically evaluate gender stereotypes.
CO 2:	Breaking the Glass ceiling and such new concepts are introduced to their language.
CO 3:	Offers an excellent opportunity for Group interaction
CO 4:	Gender issues related to 33% reservation in political bodies sensitize them toward their role as effective citizens.
CO 5:	Ethics is an integral part of learning Gender and Society paper
CO 6:	A Particularly good opportunity to learn about Eco-feminism and sustainable development.
CO 7:	Personality traits are also changed through learning problems of education

	of women & marginalized sections will influence their perception and self-directed learning abilities.
Course Name:	Sociology of Health & Medicine
Course Code:	MAS 3.3
CO 1:	Healthcare programs and policies in India, role of national and international organizations make learners more critical in their approach
CO 2:	An understanding of various Health Systems in India has provided many new concepts to their parlance like prophylaxis, etiology, pandemic and so on.,
CO 3:	The sick role and patients' role initiated a lot interaction among the students in the class.
CO 4:	Health equality and justice and a reflection of Health research has an impact on their role as good citizens of the country
CO 5:	Health care programmes and privatization of health care have initiated many ethical issues and to have a just opinion on health care facilities
CO 6:	A study of socio -cultural causes of diseases have a direct bearing on the importance of protecting the environment and sustainable development.
CO 7:	The sociological perspective on health will influence their perception and self-directed learning abilities.
Course Name:	Sociology of Work
Course Code:	MAS 3.4
CO 1:	The context of Global inequality presented in this paper makes learners more critical in their views about inequality and discrimination.
CO 2:	Many legal concepts related to Employer-employee relationships, social security of working class etc., have added new concepts to their reading and expression.
CO 3:	Learning of Trade Unionism & Workers' participation in Management has initiated a lot of pros & cons in their interpersonal interactions.
CO 4:	Learning of Industrial Relations, Labour Laws, Bargaining procedures etc., sensitize their role as responsible citizens of the country.
CO 5:	Learning of Gender & Domestic labour, Unemployment initiate a lot of ethical issues for discussion.
CO 6:	Learning of Global cultural imperialism opens up how technology has affected our environment and need for protecting the environ and dependent populations and sustenance of tribal areas.
CO 7:	Learning about Displacement of labour in technological projects and Tribal belts alter their perception and self-directed learning abilities.
Course Name:	Indian Diaspora
Course Code:	MAS SC5
CO 1:	Problems faced by Indian Diaspora makes learners to think more critically

	about international affairs.
CO 2:	Diaspora itself is a new concept & terms pertaining to various modes of emigration, dual citizenship etc., are learnt and included in their usage.
CO 3:	Discussions related to migration and consequent issues trigger a healthy intellectual interaction.
CO 4:	The entire paper revolved round citizenship, dual-citizenship and the problems beset with migration to other nations.
CO 5:	Ethical issues related to repatriation, adherence to international justice etc., are learnt.
CO 6:	Socio-economic implications of Diaspora relate to Global environmental issues and sustainable development.
CO 7:	Multi-dimensional learning in Sociology creates opportunities for lifelong, self-directed learning.

Course Name:	Open Elective: Industrial Relations & Labour Laws
Course Code:	MAS OE
CO 1:	The context of Industrial Relations presented in this paper makes learners more critical in their views about inequality and discrimination in the work setting.
CO 2:	Many legal concepts related to Employer-employee relationships, social security of working class etc., have added new concepts to their reading and expression.
CO 3:	Learning of Trade Unionism & Industrial strife has initiated a lot of pros & cons in their interpersonal interactions.
CO 4:	Learning of Industrial Relations, Labour Laws, Bargaining procedures etc., sensitize their role as responsible citizens of the country.
CO 5:	Learning of Gender & Domestic labour, Unemployment initiate a lot of ethical issues for discussion.
CO 6:	Learning of Global cultural imperialism opens up how technology has affected our environment and need for protecting the environ and dependent populations and sustenance of tribal areas.
CO 7:	Learning about Displacement of labour in technological projects and Tribal belts alter their perception and self-directed learning abilities.
CO 8:	The context of Global inequality presented in this paper makes learners more critical in their views about inequality and discrimination.

Fourth Semester

Course Name:	Sociology of Science
Course Code:	MAS 4.1
CO 1:	Logic and Scientific thinking and reasoning. Limitations of empiricism taught in this paper make learners to have critical aptitude.
CO 2:	Contributions of Stanislaw Andreski, Thomas Kuhn and Paul Feyerabend introduce many new concepts into learners speech and writing.
CO 3:	For & Against empirical method initiate a lot of interaction among the learners in discussions that follow.

CO 4:	Political discussions of the western theory sharpen the responsibilities of learners towards their part as citizens in the country.
CO 5:	Positivism, Objectivity, Responsibilities of the researcher towards respondents, value-neutrality etc., bring a lot of ethical issues to the forefront.
CO 6:	How acute scientism, heavy reliance on technology affected our environment and eco system. It generates the need for environmental protection and sustainable development.
CO 7:	The entire debate over empiricism and value orientation lead to a change in learners' perception and self-directed learning abilities.
Course Name:	Sociology of Rural Development
Course Code:	MAS 4.2
CO 1:	A thorough study of 'Rural Development Strategies' in India and elsewhere makes learners to be critical in their thinking and attitude.
CO 2:	Many new concepts are added to the armory of learners' communicative skills. They start using such concepts in their day to day parlance.
CO 3:	Social interactive mode is enhanced through participatory method in the classroom. Discussions clarify many of their doubts on Rural development issues of the country.
CO 4:	The articles on current Rural development issues and models, make them empathetic about displaced groups in the society.
CO 5:	The main objectives of this paper are to generate an interest in social values and humanitarian attitude in the land of villages.
CO 6:	Constitutional predicaments like Art. 73 and programmes undertaken by the Government instill in the learner the social responsibility and civic rights towards their environment.
CO 7:	Technology and Development initiatives have created a plethora of negative consequences. A glance at these would make them to undertake cost-benefit analysis of the Rural development programmes and become alert of irrational application of technology.
Course Name:	Dissertation
Course Code:	MAS 4.3
CO 1:	Reasoning techniques inculcated for collection of Primary & secondary data; tools of data analysis make learner to be more skeptical. Object of the paper itself is to bring about objective and positive critical thinking among the learners.
CO 2:	When conducting qualitative interviews, the expert use of triangulation of communication skills will enhance the quality and quantity of data gathered. To this end, guidance aims at education and practice of using communication skills to best effect, in order to ensure the validity and completeness of their data.
CO 3:	Research in the social sciences itself is to explore social interactions, systems and processes. While writing dissertation learners will have an in-

	depth understanding of the ways people come to understand, act and manage their day-to-day situations in particular interactive settings.
CO 4:	The top-down approach to the notion of citizenship often used in Methodology, is aimed to examine the ways in which official policies and naturalization processes are being understood and negotiated by the people involved. From Sociological point of view project is drawn upon as an early social constructionist approach to the study of citizenship in social science, highlighting the complexity, ambiguity, and ambivalence of 'citizenship in action'
CO 5:	Ethics is an integral part of Research. Many of the norms of research promote a variety of other important moral and social values , such as social responsibility, human rights, animal welfare, compliance with the law, and public health and safety. Objectivity, accountability, mutual respect, and fairness are the cardinal principles taught in this paper.
CO 6:	The framework of dissertation writing, and presentation of Viva entails the learner to be conscious of civic responsibilities and good citizenship.
CO 7:	Several Case studies and Survey reports introduce the students to the importance of Environment and sustainability
Course Name:	Sociology of Media and Communication
Course Code:	MAS 4.4
CO 1:	The intricate relationship between media and society make students to be more skeptical and critical in their approach.
CO 2:	The main intent of the paper is to introduce techniques of sound communication techniques.
CO 3:	This paper itself is to explore social interactions, systems, and processes. While dealing with media presentations learners will have an in-depth understanding of the ways people come to understand, act, and manage their day-to-day situations in particular interactive settings.
CO 4:	Ideally, media study should be non-judgmental when compiling findings. Because complete neutrality is impossible, this characteristic is a controversial aspect of media study.
CO 5:	Media censorship, debates on popular culture, portrayal of women and children in the media bring many ethical issues to the limelight.
CO 6:	The framework of media writing, and presentation entails the learner to be conscious of tolerance and good citizenship.
CO 7:	Several Case studies and media reports on Global warming, climate change etc., introduce the students to the importance of Environment and sustainability
Course Name:	Sociology of Disaster & Disaster Management
Course Code:	MAS SC5
CO 1:	Learners are made to caustic and critical regarding man-made disasters.
CO 2:	Many new concepts regarding natural and man-made disasters are added to the armory of learners' communicative skills. They start using such

	concepts in their day to day parlance.
CO 3:	Sociological perspectives on Disaster management understanding of the ways people come to understand, act, and manage their day-to-day situations in particular interactive settings.
CO 4:	Discussions related to Disasters and consequent issues related to management of disasters trigger many value-loaded judgements.
CO 5:	the role of the state in preventing, apprehending, and Managing disasters, particularly displacement of population brings many ethical issues to the forefront.
CO 6:	The havoc created by disasters like Bhopal Gas tragedy make students to be more sensitive to their role as good citizens.
CO 7:	Natural disasters like floods introduce the students to the importance of Environment and sustainability.

Master of Science (M.Sc in Computer Science)

Programme Outcomes(POs)

The M.Sc Programme enables students to:

P01: To analyze, design and develop computing solutions by applying foundational concepts of Computer Science.

P02: To apply software engineering principles and practices for developing quality software for scientific and business applications.

P03: To adapt to emerging Information and Communication Technologies (ICT) to innovate ideas and solutions to existing/novel problems.

P04: To help software professionals who are already employed to further their knowledge in their respective domains.

P05: To enhance the Designing & Analysis skills.

P06: To facilitate software professionals to take lead roles.

P07: To understand and assimilate knowledge and skills to apply in industry.

P08: To introduce contemporary theoretical concepts about the processes, standards and practices in software development life cycle.

Course Outcome

First Semester

Course Name : Object Oriented Analysis And Design

Course Code: C1

CO 1:

Possess an ability to practically apply knowledge software engineering methods, such as object-oriented analysis and design methods with a clear emphasis on UML.

CO 2:

Have a working ability and grasping attitude to design and conduct object-oriented analysis and design experiments using UML, as well as to analyze and evaluate their models.

CO 3:

Have a capacity to analyze and design software systems, components to meet desired needs.

Course Name : Design And Analysis Of Algorithms

Course Code: C2

CO 1:

Apply design principles and concepts to algorithm design. Developing mathematical foundation in analysis of algorithms

CO 2:

Understand different algorithmic design strategies.

CO 3:

Analyze the efficiency of algorithms using time and space complexity theory.

Course Name : Database Management Systems

Course Code: C3

CO 1:

Student will understand the different issues involved in the design and implementation of a database system.

CO 2:

To study the physical and logical database designs, database modeling, relational, hierarchical, and network models. To understand and use data manipulation language to query, update, and manage a database.

CO 3:	To develop an understanding of essential DBMS concepts such as: database security, integrity, concurrency.
Course Name :	Python Programming
Course Code:	C4
CO 1:	Interpret the fundamental Python syntax, semantics and be fluent in the use of Python control flow statements.
CO 2:	Express proficiency in the handling of strings and functions.
CO 3:	Determine the methods to create and manipulate Python programs by utilizing the data structures like lists, dictionaries, tuples and sets.
CO 4:	Articulate the Object-Oriented Programming concepts such as encapsulation, inheritance and polymorphism as used in Python.
Course Name :	Statistics
Course Code:	C5
CO 1:	Explain basic statistical concepts such as statistical collection, species characteristics, statistical series, tabular and graphical representation of data, measures of central tendency, dispersion and asymmetry, correlation and regression analysis, time series analysis
CO 2:	Apply knowledge to solve simple tasks using computer (MS Excel)
CO 3:	Independently calculate basic statistical parameters (mean, measures of dispersion, correlation coefficient, indexes).
CO 4:	Based on the acquired knowledge to interpret the meaning of the calculated statistical indicators.
CO 5:	Choose a statistical method for solving practical problems.
Course Name :	Python Lab
Course Code:	L1
CO 1:	Examine Python syntax and semantics and be fluent in the use of Python flow control and functions.
CO 2:	Demonstrate proficiency in handling Strings and File Systems.
CO 3:	Create, run and manipulate Python Programs using core data structures like Lists.
CO 4:	Dictionaries and use Regular Expressions.
Course Name :	Data Base Management Systems Lab
Course Code:	L2
CO 1:	On completion of the course, the students acquire the knowledge able to perform various database operation like creating, updating, inserting, modifying table structure, setting credentials to table using SQL quires.
CO 2:	Creation and updating of databases by passing queries.
Course Name :	Complementary Skills - I
Course Code:	S1
CO 1:	Development Communicative Skills
CO 2:	Technical writing Documentation Patterns
CO 3:	Stress Management, Life Style and Health
Second Semester	

Course Name :	Software Testing
Course Code:	C6
CO 1:	Formulate problem by following Software Testing Life Cycle.
CO 2:	By designing manual Test cases for Software Project.
CO 3:	Identify the realistic problem for different category of software.
CO 4:	Use automation testing tool students will be able test the software.
Course Name :	Data Mining
Course Code:	C7
CO 1:	Understanding data mining principles and techniques.
CO 2:	Introducing Data Mining as a cutting edge business intelligence method and acquaint the students with the DM techniques for building competitive advantage through proactive analysis, predictive modeling, and identifying new trends and behaviors.
CO 3:	Learning how to gather and analyze large sets of data to gain useful business understanding.
CO 4:	Learning how to produce a quantitative analysis report/memo with the necessary information to make decisions.
CO 5:	Describing and demonstrating basic data mining algorithms, methods, and tools.
CO 6:	Identifying business applications of data mining.
Course Name :	Enterprise Application Development
Course Code:	C8
CO 1:	Implement a code in JDBC to communicate with database.
CO 2:	Develop web applications using Servlets and JSP.
CO 3:	Integrate Servlets, JSP and JDBC and build a web application.
CO 4:	Build Enterprise Applications using Session Bean, Entity Bean and MDB.
Course Name :	Operating Systems And Network Programming
Course Code:	C9
CO 1:	Implementing small programs to demonstrate operating system function
CO 2:	Develop programs using system calls.
CO 3:	Demonstrate program on inter process communication.
CO 4:	Build communication programs between client machine and server machine using sockets.
Course Name :	Advanced Computer Networks
Course Code:	C10
CO 1:	Independently understand basic computer network technology.
CO 2:	Understand and explain Data Communications System and its components.
CO 3:	Identify the different types of network topologies and protocols.
CO 4:	Enumerate the layers of the OSI model and TCP/IP. Explain the function(s) of each layer.
CO 5:	Identify the different types of network devices and their functions within a network.

CO 6:	Understand and building the skills of sub netting and routing mechanisms.
CO 7:	Familiarity with the basic protocols of computer networks, and how they can be used to assist in network design and implementation.
Course Name :	Enterprise Application Development Lab
Course Code:	L3
CO 1:	On completion of the course, the students acquire the knowledge to build the logic and develop a solution for a problem statement. Using Java Scripts, CSS, J2EE, XML and Web services
CO 2:	Write a servlet program
CO 3:	Program to illustrate SESSION and COOKIES.
Course Name :	Network Programming And Design Lab
Course Code:	L4
CO 1:	On completion of the course, the students acquire the knowledge to build the logic and develop a solution for a Network related problem statement using C on Linux and windows platform and also algorithm like dynamic programming and backtracking analysis of time complexity
CO 2:	Writing Programs to establish communication between Parent and Child process using two PIPES.
Course Name :	Complementary Skills - II
Course Code:	S2
CO 1:	Time Management Personal Software Process (PSP)
CO 2:	Project Management such as PERT concepts
CO 3:	Team work by willingness and ability to learn from other people. Teaching, mentoring, and knowledge sharing
Third Semester	
Course Name :	Introduction To Big Data Analytics
Course Code:	C11
CO 1:	Understanding the concept and challenge of big data and why existing technology is inadequate to analyze the big data
CO 2:	Collect, manage, store, query, and analyze various form of big data
CO 3:	Gain hands-on experience on large-scale analytics tools to solve some open big data problems
CO 4:	Understanding the impact of big data for business decisions and strategy.
Course Name :	Web Application Development With Android
Course Code:	C12
CO 1:	Explain mobile devices, including their capabilities and limitations.
CO 2:	Use current mobile platforms and their architectures.
CO 3:	Develop mobile applications on a popular mobile platform.
CO 4:	Evaluate development with another mobile platform.
Course Name :	Machine Learning
Course Code:	C13
CO 1:	List the objectives and functions of modern Artificial Intelligence.

CO 2:	Categorize an AI problem based on its characteristics and its constraints.
CO 3:	Understand and implement search and adversarial (game) algorithms.
CO 4:	Understand mathematical models such as belief networks and Markov decision processes and apply them to a range of AI problems.
CO 5:	Have a glance at machine learning algorithms and extracting knowledge models from data.
CO 6:	Learn different logic formalisms and decision taking in planning problems.
CO 7:	Learn how to analyze the complexity of a given problem and come with suitable optimizations.
Course Name :	Big Data Platform
Course Code:	C14
CO 1:	At the end of the module, a student will have an understanding of role of HPC in science and engineering.
CO 2:	The most commonly used HPC platforms and parallel programming models.
CO 3:	The means by which to measure analyze and assess the performance of HPC applications and their supporting hardware.
CO 4:	Mechanisms for evaluating the suitability of different HPC solutions to common problems found in Computational Science.
CO 5:	Importance of various cloud computing service and there implementation.
CO 6:	Able to understand the virtualization technologies and there implementation.
CO 7:	Write map reducing program to analyze weather forecast data
Course Name :	Android Lab
Course Code:	L5
CO 1:	On completion of the course, the students acquire the knowledge to build the Android application for smart phone.
CO 2:	Writing programs for shared preference and fragment.
Course Name :	Big Data Practical Lab
Course Code:	L6
CO 1:	On completion of the course, the students acquire the knowledge to apply various analytics functions to extract useful information from BIG data set.
Course Name :	Webpage Designing
Course Code:	OE
CO 1:	Students will be able to Create web page using word press.
CO 2:	Word Press website with blog.
CO 3:	Designing a user friendly website using colors, images, accessibility.
CO 4:	Will able to install a template, include plug-in.
CO 5:	Create static pages, include images, use widgets.
Course Name :	Complementary Skills-III
Course Code:	S3

CO 1:	To develop Systems Thinking and Critical Thinking
CO 2:	To handle Conflict Management and Negotiation Skills
CO 3:	Development of Interview Skills
Fourth Semester	
Course Name :	Internet Of Things
Course Code:	C15
CO 1:	To understand the application areas of IOT.
CO 2:	Able to realize the revolution of Internet in Mobile Devices, Cloud & Sensor Networks.
CO 3:	Able to understand building blocks of Internet of Things and characteristics.
CO 4:	Understand State of the Art – IoT Architecture, Real World IoT Design Constraints, Industrial.
Course Name :	Internet Of Things Lab
Course Code:	L7
CO 1:	On completion of the course, the students acquire the knowledge and develop different applications using IoT kit.
CO 2:	To write programs for connecting data using WiFi modules
CO 3:	To launch projects on Maths work
Course Name :	Project Work
Course Code:	P1
CO 1:	The student experiences and learns the industry software development methodologies.
CO 2:	It is a real-time development which involves all stages of Software development.

Master of Commerce(M.Com)

Programme Outcomes(POs)

The M.Com Programme enables students to:

PO 1: Students will get an orientation to the various changes, challenges and trends in the various subjects of Commerce.

PO 2: It will develop the necessary skills in students to deal with real time situations and finding solutions to complex problems by allowing them to understand the influences of Accounts, Business and Advertisement.

PO 3: It will help to inculcate conceptual knowledge, logical reasoning ability and analytical skills through Practical Approach in the domain of Commerce and Business.

PO 4: They also will be able to apply the knowledge of Commerce in order to bring a positive change in the society.

PO 5: Students will be able to develop multicultural and global perspective in the knowledge area of Commerce & Business by inculcating Entrepreneurial & Employability skills.

PO 6: The students will develop an ability to apply knowledge acquired in problem solving.

PO 7: Ability to work in terms with enhanced communication and inter – personal skills.

PO 8: Students will be able to pursue their career in teaching and research.

PO 9: The students will be ready for employment in functional areas Accounting, Taxation, Banking, Insurance and Corporate Law.

PO 10: To inculcate ethical value, team work, leadership and managerial skills.

PO 11: Ability to start entrepreneurial activities.

Course Outcomes

First Semester

Course Name :	Managerial Decision for Corporate Finance
Course Code:	MC1.1
CO 1:	Aiming to enable the students to get the Know-how of corporate finance in its wide aspects.
CO 2:	To create an interest in investment habit keeping its wide scope
CO 3:	Explain the implications of recent cognitive research into human decision making for individual and group decision making
CO 4:	Apply tools, techniques and frameworks to solve a range of decision situations that managers commonly confront
CO 5:	Analyze organizational systems to identify opportunities to improve decision quality
Course Name :	Business Environment and Government Policy
Course Code:	MC1.2
CO 1:	To familiarize with global business environment

CO 2:	To make them understand about different trade policy on export and import
CO 3:	To develop the knowledge about international business
CO 4:	To understand the concepts of social audit, business policy and capitalist economy
CO 5:	To provide an introduction on Business system and its function.
Course Name :	Organizational Theory and Behavior
Course Code:	MC1.3
CO 1:	To equip the students with the basic idea and introduction on organizational behavior as a concept.
CO 2:	To give a light on the concept and difference theories on motivation.
CO 3:	Explain and helps the students to gain more knowledge on Group Behavior.
Course Name :	Quantitative Techniques for Business Decisions
Course Code:	MC1.4
CO 1:	To introduce the meaning and scope of operation research.
CO 2:	To give practical exposure to Linear programming problems.
CO 3:	To give practical exposure to transportation and assignment problems
CO 4:	To helps to facilitates the learning of network analysis
Course Name :	Basics of Monetary System
Course Code:	MC1.5
CO 1:	To provide an idea regarding Balance of trade and Payment.
CO 2:	Enabling the students to familiarize international monitoring System.
CO 3:	Appreciate the relationship between money and inflation.
CO 4:	Elucidate the origin of monetary policy.
CO 5:	Discuss the present status of monetary policy.
Course Name :	Computer Applications I
Course Code:	MC1.6
CO 1:	To provide them with conceptual knowledge about E-Commerce.
CO 2:	Technologies are used in a typical commercial system.
CO 3:	Acquire knowledge on Mobile Commerce.
Second Semester	
Course Name :	Advanced Financial Management
Course Code:	MC2.1
CO 1:	Calculate common investment criteria and project cash flows associated with corporate project evaluation.

CO 2:	Apply measures of cost of capital and financial leverage to form long-term financial policies for business.
CO 3:	Judge the merits of leasing over borrowing to purchase assets.
CO 4:	Describe the common factors influencing dividend policy.
CO 5:	Describe applications of options in financial management.
CO 6:	Relate capital investment decisions and financial policies to business valuations.
Course Name :	Strategic Management
Course Code:	MC2.2
CO 1:	Understand the strategic decisions that organizations make and have an ability to engage in strategic planning.
CO 2:	Explain the basic concepts, principles and practices associated with strategy formulation and implementation.
CO 3:	Integrate and apply knowledge gained in basic courses to the formulation and implementation of strategy from holistic and multi-functional perspectives.
CO 4:	Analyze and evaluate critically real life company situations and develop creative solutions, using a strategic management perspective.
Course Name :	IFRS and IND Accounting Standards
Course Code:	MC2.3
CO 1:	Provides an in-depth analysis of the accounting and disclosure requirement under £ IFRS.
CO 2:	Understand the approach to restate and interpret the financial statements as per IFRS.
CO 3:	After completing the course, participant will be able to understand & implement Indian Accounting Standards in there organization.
Course Name :	Business Research Methods
Course Code:	MC2.4
CO 1:	Develop data collection instrument according to the underlying theoretical framework.
CO 2:	Explain how to conduct data collection (quantitative and qualitative)
CO 3:	Discuss and apply different research approaches and methodologies
Course Name :	Business Marketing
Course Code:	MC2.5
CO 1:	Understand fundamental marketing concepts, theories and principles in areas of marketing policy; of market and consumer behavior; of product, distribution, promotion and pricing decisions.
CO 2:	Understand the role of marketing as a fundamental organizational policy process.
CO 3:	Analyze the interaction of marketing and environmental forces through

	an understanding of marketing decisions and practices with social, technological, economic and political forces.
CO 4:	Apply the knowledge, concepts, tools necessary to understand challenges and issues of marketing in a growing international and global context.
Course Name :	Computer Applications II
Course Code:	MC2.6
CO 1:	To gain knowledge of typical ERP systems.
CO 2:	Design the ERP implementation strategies.
CO 3:	To be able to map business processes using ERP concepts and techniques.
CO 4:	To Create reengineered business processes for successful ERP implementation.
Third Semester	
Course Name :	Strategic Cost Management
Course Code:	MC3.1
CO 1:	Describe some of the techniques and process which are available to assist managers in planning and controlling organizational activities
CO 2:	Analyze the processes involved in identifying, measuring, analyzing, interpreting and communicating information to managers in pursuit of the organization's goals.
CO 3:	Explain the role of cost information in organizations.
CO 4:	Analyze the linkage between cost data and systems and the organization of activities and resource flows in a range of manufacturing and service activities.
Course Name :	International Business
Course Code:	MC3.2
CO 1:	Develop and implement strategies to negotiate effectively within various cultural environments and to address the impact of cultural differences on an organization's integrative trade initiatives.
CO 2:	Develop and present an international marketing plan, and evaluate sales strategies that support an organization's integrative trade initiatives.
CO 3:	Identify and interpret relevant international financial documents, and evaluate financial strategies that support an organization's integrative trade initiatives.
CO 4:	Analyze the impact of an organization's integrative trade initiatives on its human resources management strategies, policies and practices
Course Name :	Insurance and Risk management
Course Code:	MC3.3
CO 1:	To have a discussion and explain in detail financial instruments such as options, futures, swaps and other derivative securities.
CO 2:	Describe and understand the economic environment in which such

	instruments operate.
CO 3:	Identify and explain features of private and public insurance available to meet each identified need.
CO 4:	Apply these instruments in managing the risk of investing and hedging activity at the individual and the corporate level.
Course Name :	Cost and Management Accounting
Course Code:	MC3.4A
CO 1:	To introduce the concept of fund flow and cash flow statement.
CO 2:	To provide knowledge about budget control keeping in mind the scope of the concept.
CO 3:	To develop the know-how and concept of marginal costing with practical problems.
Course Name :	Financial Services
Course Code:	MC3.4B
CO 1:	To give an idea about fundamentals of financial services and players in financial sectors.
CO 2:	To create awareness about merchant banking, issue management, capital markets and role of SEBI.
CO 3:	To provide knowledge about leasing and hire purchase concepts.
CO 4:	To make them understand about different types of insurance and IRDA Act.
Course Name :	Corporate Tax Planning
Course Code:	MC3.5A
CO 1:	Students who complete this course will be able identify the difference between tax evasion and tax planning.
CO 2:	By the end of the course students will able to describe how the provisions in the corporate tax laws can be used for tax planning.
CO 3:	Students of the course will able to explain different types of incomes and their taxability and expenses and their deductibility.
CO 4:	Students who complete this course will be able to outline the corporate tax laws.
Course Name :	Financial Markets & New Trends
Course Code:	MC3.5B
CO 1:	It refers to collective use of marketing tactics employed by marketers in financial services sector
CO 2:	The course describes and examines financial derivatives such as Forward, Future and option, drawing real world financial market experience and application.
CO 3:	Evaluate the economic environment and the impact of governmental economic policies on consumers and financial institutions.

Fourth Semester	
Course Name :	Management of Non - Profit Organizations
Course Code:	MC4.1
CO 1:	Demonstrate knowledge and awareness of the standards and codes of conduct that are appropriate to professionals and volunteers in philanthropy and the nonprofit sector.
CO 2:	Develop a thorough understanding of the various technical, functional, and operational areas of a nonprofit organization and be able to apply this knowledge to organizational practice and planning.
CO 3:	Describe the history, role, and function of governance and executive leadership in achieving the mission and vision of nonprofit organizations.
Course Name :	Regulatory framework
Course Code:	MC4.2
CO 1:	Learn the difference between valid void and voidable contract.
CO 2:	Memorize difference between contract of guarantee and indemnity.
CO 3:	Analysize the rights and duties of pawnor and Pawnee under contract of bailment.
Course Name :	Accounting Standards and Corporate Reporting
Course Code:	MC4.3A
CO 1:	Demonstrate an understanding of the Indian external reporting environment and its challenges.
CO 2:	Demonstrate a deep and broad understanding of the objectives and social and economic roles played by financial accounting and reporting.
CO 3:	Analyze, evaluate and interpret various advanced measurement and disclosure issues and other specialized topics pertaining to an economic entity.
CO 4:	Apply main features of a selection of Indian accounting standards.
Course Name :	Security Analysis & Portfolio Management
Course Code:	MC4.3B
CO 1:	Describe the steps of the portfolio management process.
CO 2:	Make investment policy recommendations, including the determination of an optimal asset allocation.
CO 3:	To create an awareness about risk and return of different investments.
CO 4:	To make them understand the investment decisions and portfolio performance.
Course Name :	Goods and service tax
Course Code:	MC4.4A
CO 1:	Understand various concepts of Goods & Service Tax.

CO 2:	Understand the impact of new regulation on distribution of pesticides and kind of changes needed to be done.
CO 3:	Gain an insight on the recording and analyzing the transactions for compliance under GST especially in supply chain & distribution.
CO 4:	Getting familiar with the technology and the flow of return filing under GST.
Course Name :	International Financial Management
Course Code:	MC4.4B
CO 1:	Identify the key aspects of international trade and calculate its potential gains to participating nations.
CO 2:	Describe the characteristics of foreign exchange markets, identify the different currency regimes, and measure the gains/losses from engaging in speculative and arbitrage activities.
CO 3:	Judge whether international parity conditions are met and predict the impact of imbalances on foreign exchange markets.
Course Name :	Business Lab
Course Code:	MC4.5
CO 1:	Students get basic knowledge of Project Management concepts, highlighting the fundamental differences between a project and a programme.
CO 2:	It help participants to create a work environment that values individuals by increasing personal motivation and favoring integration with other group components in order to obtain better results.

Department of English

Program Specific Outcome Language English

The student demography of the college is 'semi-rural' and 'Semi urban' students. The main outcome is to enable them to compete in the global environment on a similar level as the urban learners.

In keeping with that,

PSO 1: To enable the students to write grammatically correct and to make them comfortable with the English Language.

PSO 2: To understand, perceive and challenge the socio-cultural aspects through texts and to be able to write precise of a given passage.

PSO 3: To Critique socio-political-cultural literature and acquire the employability skills (letter, memo, circular and notice); and prepare them to write personal essay i.e. Photo journalistic essay.

PSO 4: Position n argue with respect to race, gender and contemporary issues, and write a blog post and also acquire critical reasoning skill.

Program Specific Outcome Optional English

PSO 1: Understand the significance of spatial approach to literature.

PSO2: Understand the significance of conceptual framework to comprehend and critique literary texts.

PSO 3: Acquire academic literary skills of reading and writing.

PSO 4: Know research methods in English.

PSO 5: Understand the importance of folklore and Popular culture .

Course Outcome

First Semester

Course Name:	English-I
Paper Title:	Language English
Course Code:	LBAE-C1
CO 1:	Understand and Remember the basic rules of English Grammar; Apply and Create a sentence of their own.
CO 2:	Understand and Remember format of writing a paragraph; apply and Create a sample based on a given topic
CO 3:	Understand and Apply various aspects of reading a/the literary text; and Create an essay appreciating the literary text
CO 4:	Understand, Remember, Apply and Create
Course Name:	Optional English-I
Paper Title:	Introduction to Literatures-I
Course Code:	OE -C1
CO 1:	Understand and remember the key terms
CO 2:	Remember the aspects of film making viz costume, music, images etc; , Apply and Create a response to the scenes
CO 3:	Understand that orality is very much a part of literature
CO 4:	Understand and Remember concepts discussed

Second Semester	
Course Name:	English-II
Paper Title:	Language English
Course Code:	LBAE-C2
CO 1:	Understand, Remember, Apply the various aspects of reading skills
CO 2:	Understand and Apply rules of making linear notes; and Create a sample based on a given passage
CO 3:	Understand and Remember format of the resume; apply and Create a sample based on a given question
CO 4:	Evaluate the ideas presented in the novella and create an essay expressing their opinions and understanding
Course Name:	Optional English-II
Paper Title:	Introduction to Literatures-I
Course Code:	OE-C2
CO 1:	Understand and apply the concept of spatiality
CO 2:	Understand and remember the philosophy of language as discussed in the text
CO 3:	Apply and evaluate a text as it critiques/depicts the reality; and create an analytical essay
CO 4:	Understand and remember
CO 5:	Understand, remember and create
Third Semester	
Course Name:	English-III
Paper Title:	Language English
Course Code:	LBAE-C3
CO 1:	Understand and Remember format of writing a short paragraph ; apply and Create a sample based on a given topic
CO 2:	Understand and Remember format of the official letter writing skill; apply and Create a sample based on a given question
CO 3:	Evaluate and critique the different voices present in the text; create an analytical response to the same
CO 4:	Understand the notions of patriarchy, Apply these notions and Evaluate a literary text
CO 5:	Apply and Evaluate a given literary text; Create an analytical essay
Course Name:	Optional English-III
Paper Title:	Introduction to Literatures III
Course Code:	OE-C3
CO 1:	Understand literary representation of reality
CO 2:	Understand and Apply the elements of a good film to write a critical review
CO 3:	Understand the key concepts; Apply and Evaluate texts prescribed

CO 4:	Understand the aspects of stylistic analysis
CO 5:	Remember and Apply characteristics of stylistic analysis; evaluate a poem/passage based on this understanding

Fourth Semester

Course Name:	English-IV
Paper Title:	Language English
Course Code:	LBAE-C4
CO 1:	Understand and Remember format of the blog post;; apply and Create a sample based on a given idea/issue
CO 2:	Understand the politics of culture
CO 3:	Understand and Remember format of the short skill; apply and Create a sample based on a given question
CO 4:	Understand the notion of race and apply the understanding to critique and express their opinion

Course Name:	Optional English-IV
Paper Title:	Introduction to Literatures IV
Course Code:	OE-C4
CO 1:	Remember, Understand and Apply the key concepts in Postcolonialism to the texts prescribed
CO 2:	Understand, Apply and evaluate the notion of gender as depicted in different texts and critique it
CO 3:	Remember and Apply the critical skills of discourse analysis

Fifth Semester

Course Name:	Optional English-V
Paper Title:	Literatures-Classical
Course Code:	OE-C5.5
CO 1:	Understand the idea of classical literature and remember its features across world literature
CO 2:	Understand, evaluate and apply the understanding of folklore from the world
CO 3:	Understand and remember the definition of the concept
CO 4:	Understand 'folktales' as important literary genre and thier importance to the present
CO 5:	Understand the concept of classical; , Evaluate texts from different Ages from this comprehension of the concept

Course Name:	Optional English-VI
Paper Title:	Literatures-20th Century
Course Code:	OE-C5.6
CO 1:	Understand 20th C as an age of formulation of different voices; Analyse andApply the understanding to the texts prescribed;
CO 2:	Understand the concept and apply it to the texts to comprehend

CO 3:	Understand the academic skills requisite for the research and Apply and Create using these skills
CO 4:	Understand the concept and evaluate the texts
Sixth Semester	
Course Name:	Optional English-VII
Paper Title:	Postcolonial Studies
Course Code:	OE-C6.7
CO 1:	Understand Postcolonialism as an important theoretical study to comprehend 20th C literatures written by previously colonised nations
CO 2:	Understand the concepts and apply the same in order to discuss the notions depicted in the text
CO 3:	Understand the concept of 'marginalised' and analyse the texts for the concept to critique the societal hierarchy
CO 4:	Understand the required research skills like close reading and apply the same to write critically
Course Name:	Optional English-VIII
Paper Title:	Popular Culture
Course Code:	OE-C6.8
CO 1:	Understand the distinction between 'high' and 'low' / 'popular' culture; , Remember the scholarly definition to analyse and apply the understanding to the texts prescribed for study
CO 2:	Understand the dynamics of the genres of popular culture
CO 3:	Appreciate and apply the knowledge of 'popular culture' to artists
CO 4:	Understand the role of films in shaping and critiquing the prevalent cultural norms
Course Name:	Communicative English
Paper Title:	Communicative Skills
Course Code:	CE
CO 1:	Understand the importance of the speaking coherently in all professional situations
CO 2:	Understand the stipulation of debate; apply the subsidiary skills of evaluation and present an argument
CO 3:	Understand and remember the rules of creating effect slides; apply and create effective PPT to make academic presentations
CO 4:	Analyse, Apply and Create academic PPT for presentation
CO 5:	Understand the significance of of Group Dynamics; Create amicable group in which they present their views and ideas

Department of Hindi

Programme Specific Outcomes

PSO 1: To Understand the Hindi literature in association with the contemporary requirements.

PSO 2: To identify and explain the various forms of writings; prose, novel, drama, poem and short stories.

PSO 3: Explain the different types of grammar of Hindi language in simple language.

PSO 4: To equip students with cinematic perspective by comparative studies of Hindi literature and its extensive use in Indian cinema.

PSO 5: To gain research oriented aspirations among students.

PSO 6: To promote and spread the Hindi language usage among youth.

PSO 7: To enhance the communication and reading-writing abilities.

PSO 8 : To cultivate the value education.

PSO 9: To increase the attentiveness towards the core areas of the subject.

Course Outcomes

First Semester

Course Name :	Hindi-I
Course Code:	LBAH-C1/ LBSH-C1/ LBCH-C1/ LBMH-C1
CO 1:	Understanding learners in appreciating aesthetics in classical language.
CO 2:	All the details of the subject, the essence of the story, essay, travel narration etc were explained on time.
CO 3:	Able to understand the present societal issues.

Second Semester

Course Name :	Hindi-II
Course Code:	LBAH-C1/ LBSH-C1/ LBCH-C1/ LBMH-C2
CO 1:	Poetry taught the lessons of life, peace and humankind.
CO 2:	Able to learn prose work , it will improve learner's proficiency.
CO 3:	Understanding the learning process and the nature, the structure of the Hindi language.

Third Semester

Course Name :	Hindi-III
Course Code:	LBAH-C1/ LBSH-C1/ LBCH-C1/ LBMH-C3
CO 1:	Able to understand the ethical values of present days.
CO 2:	Understand general public at every age and all levels of formal and non formal education.
CO 3:	It Development of society is based on languages. The introduction of literary works was done in a scientific way.

Fourth Semester

Course Name :	Hindi-IV
Course Code:	LBAH-C1/ LBSH-C1/ LBCH-C1/ LBMH-C4
CO 1:	Able to understand the ethical values of present days.
CO 2:	The ideology of the writers from the drama was delivered to the students.
CO 3:	It gives moral values of life in students that will inculcate or lead and influence them towards right path in their materialistic world.

Department of Kannada

Programme Specific Outcomes

PS01: Learning classical Literature, History of Kannada Literature, Modern literature, folklore in the form of Epics, Poetry, Novels, Drama, Small Stories, and Essays will prepare students for better human being.

PS02: Study of translation of various literary language throw light on how aboriginal culture been affected. It reveals the effect of freedom on its natives.

PS03: Learns the gender equality, gender respect and to boycott extremely immoral social disparity.

PS04: Study and discussion of cultural diversity compose students to understand the valuable thoughts achieving superior characters.

PS05: Industrialization gave birth to modern literature. Study of the consequences of it made the students for better preparedness to face the hurdles of globalization. This strengthens the importance of learning multi skills.

PS06: Study of folklore throws light on the facts that are not recorded in social and cultural history. This enlightens the values of life.

PS07: Overall study of literature strengthens students to enhance writing skills, vocabulary and higher education. It gives concrete moral courage, life values and confidence.

Course Outcomes

First Semester

Course Name :	Kannada-I
Course Code:	LBAK-C1 & LBMK-C1
CO 1:	LOVE: Creating awareness among students the need for human relationships through the concept of love. Motivate the creation of a society free of hostility using the concept of love.
CO 2:	REGIONALISM: To create the awareness among students to learn the essence of regional languages. Through this concept of regionalism encouraging them to create literature in this Desi Saga.
CO 3:	MODERNISM : Exposure to the modern literature to students enhances the learning to build the value-based life and retaining the sensitivity in the modern and mechanical life.
CO 4:	EQUALITY: To create awareness among students concerning the social and gender disparity in society and motivate to fight towards equality.
Course Name :	Kannada-I
Course Code:	LBSK-C1 & LBCK-C1
CO 1:	VIOLENCE : Educating the students about the impact of violence and make an effort to build humanitarian values.
CO 2:	ENVIRONMENT : Educating awareness among students on environmental protection through the concept of ecology
CO 3:	MODRENISM: Educating students about the necessity to preserve life values in the modern world.

CO 4:	SOCIAL EQUALITY: To create awareness among students concerning the social and gender disparity in society and motivate to fight towards equality.
CO 5:	SCIENCE: Developing scientific thinking through the teaching of science articles.
Course Name :	Optional Kannada-I
Course Code:	OK-C1
CO 1:	Students learn the emergence of Kannada Naadu, Nudi and Polite Literature through history of Kannada literature.
CO 2:	They learn about the way this literature grew. They also understand the religion, culture and lordship in literary creation.
CO 3:	Students learn the application of versification in literary writing.
CO 4:	Also exposure to language-specificity and fluency.
CO 5:	Provide exposure to different forms of literature developing the critical approach with social concern
Second Semester	
Course Name :	Kannada-II
Course Code:	LBAK-C2 & LBMK-C2
CO 1:	STATUS QUO : Understand the current status quo and motivate them to adopt appropriate behavior.
CO 2:	DREAM : Building sense of better dreams for better future.
CO 3:	MODERNISM : Exposure to the modern literature to students enhances the learning to build the value-based life and retaining the sensitivity in the modern and mechanical life.
CO 4:	EQUALITY: To create awareness among students concerning the social and gender disparity in society and motivate to fight towards equality.
Course Name :	Kannada-II
Course Code:	LBSK-C2 & LBCK-C2
CO 1:	SCIENCE : Build scientific temperament to prepare the students for better livelihood.
CO 2:	RELATIONSHIP : Motivating the students about the creation of a cohesive and beautiful society by conveying the meaning of human relationships
CO 3:	MODERNISM: Exposure to the modern literature to students enhances the learning to build the value-based life and retaining the sensitivity in the modern and mechanical life.
CO 4:	RATIONALISM: Provide exposure to different forms of literature developing the critical approach with social concern.
Course Name :	Optional Kannada-II
Course Code:	OK-C2
CO 1:	VACHANA SAHITHYA : To educate the students about the contribution of Allama, Basavanna, Akkamahadevi and others about their contribution towards social change and value based society through effective use of simple poetry.

CO 2:	DASA SAHITHYA: Addressing the possibility of social transformation through the introduction of Simple Musical Literature of Kanaka, Purandara and others.
CO 3:	Prepare the students for creative thinking and developing writing skills.
Third Semester	
Course Name :	Kannada-III
Course Code:	LBAK-C3 & LBMK-C3
CO 1:	ANCIENT LITERATURE : Educating the students about the relationship of different time period of literature and society.
CO 2:	THOUGHTFUL LITERATURE: Learning socio-cultural views.
CO 3:	DIVERSE PROSE : Introducing the elegance of regional fragrance.
CO 4:	WRITING SKILLS : In-depth learning of writing skills and life values.
Course Name :	Kannada-III
Course Code:	LBSK-C3 & LBCK-C3
CO 1:	ANCIENT LITERATURE : Educating the students about the relationship of different time period of literature and society.
CO 2:	THOUGHTFUL LITERATURE: Learning socio-cultural views.
CO 3:	DIVERSE PROSE : Introducing the elegance of regional fragrance.
CO 4:	WRITING SKILLS : In-depth learning of writing skills and life values.
Course Name :	Optional Kannada-III
Course Code:	OK-C3
CO 1:	POETICS: Provide an understanding of the basic tools of poetry and its benefits.
CO 2:	DRAMA: Teaching the values of life effectively through visual poetry.
CO 3:	NOVEL: Creating the love for reading which yields to understand the life.
CO 4:	MOVEMENTS: Teaching leadership qualities about the movements of various era and their effects.
Fourth Semester	
Course Name :	Kannada-IV
Course Code:	LBAK-C4 & LBMK-C3
CO 1:	DRAMA : Improving Social Awareness through Performing Arts and Language Arts.
CO 2:	NOVEL : Elevating awareness of life through detailed analytical literature.
CO 3:	SMALL STORIES: Briefly raise awareness of the incident.
CO 4:	ESSAY : Educating the importance of content analysis and developing analytical qualities.
Course Name :	Kannada-IV
Course Code:	LBSK-C4 & LBCK-C3
CO 1:	DRAMA : Improving Social Awareness through Performing Arts and Language Arts.
CO 2:	NOVEL : Elevating awareness of life through detailed analytical literature.
CO 3:	SMALL STORIES: Briefly raise awareness of the incident.
CO 4:	ESSAY : Educating the importance of content analysis and developing analytical qualities.

Course Name :	Optional Kannada-IV
Course Code:	OK-C4
CO 1:	FOLKLORE : Educating the elegance and culture through the introduction of desi literature
CO 2:	ANCIENT LITERATURE: Teaching the moral values for life.
CO 3:	CRITICS : Teaching the skills of literary criticism which yields the social, analytical skills.
CO 4:	ASSOCIATION AND ORGANIZATION : Educating the role of organizations in the preservation of Naadu and Nudi.
Fifth Semester	
Course Name :	Optional Kannada-V
Course Code:	OK-C5.5
CO 1:	DRAMA: Exposure to gender inequality through the study of MEDIA, a Greek Tragedy.
CO 2:	THE EPIC : Teaching Sri Ramayana Darshanam exposes the students to the unique intuition of Kuvempu with reference to modern times.
CO 3:	VACHANA SAHITHYA: Learning the literary elegance and social values of Vachanas.
CO 4:	TRAVEL LITERATURE : Educating the students about Peruvian and Cuban commitment and struggle in rebuilding their nations.
CO 5:	THOUGHTFUL LITERATURE : Developing analytical and inter-personal skills.
Course Name :	Optional Kannada-VI
Course Code:	OK-C5.6
CO 1:	Teaching the systematic skills of language structure.
CO 2:	Learning the history of Kannada Grammar and Major Grammarians.
CO 3:	Teaching a systematic approach to the use of sound (DWANIMA) in word formation.
CO 4:	Teaching a systematic approach to the use of words (AKRUTIMA) in sentence formation.
CO 5:	Building the self confidence in students through systematic different writing skills.
Sixth Semester	
Course Name :	Optional Kannada-VII
Course Code:	OK-C6.7
CO 1:	CHAMPU SAHITHYA: Addressing the nature and essence of tenth-century literature.
CO 2:	DRAMA: Raising awareness of life anomaly (ASANGATHA) and social conditions through the Plays (Dramas) of Da Ra Bendre and G B Joshi.
CO 3:	SMALL STORIES: Introduction of various forms and complexities of life through this event-centred literature.
Course Name :	Optional Kannada-VIII
Course Code:	OK-C6.8
CO 1:	Educate the literature students that linguistic awareness is the most essential to understand different forms of language.

CO 2:	Educate the origin and evolution of language.
CO 3:	Educating about the language category and their features.
CO 4:	Teaching about the Kannada dialects and its reasons.
CO 5:	Bring about the relationship between the Language and technology.

Department of Sanskrit

Programme Specific Outcomes

PSO 1 : Learning classical Literature, History of Sanskrit Literature, folklore in the form of Epics, Poetry, Novels, Drama and Essays will prepare students for better human being.

PSO 2 : Learns the gender equality, gender respect and to boycott extremely immoral social disparity.

PSO 3 : Study and discussion of cultural diversity compose students to understand the valuable thoughts achieving superior characters.

PSO 4 : Study of the consequences of it made the students for better preparedness to face the hurdles of globalization.

PSO 5 : Study of folklore throws light on the facts that are not recorded in social and cultural history. This enlightens the values of life.

PSO 6 : Overall study of literature strengthens students to enhance writing skills, vocabulary and higher education.

PSO 7 : It gives concrete moral courage, life values and confidence.

Course Outcomes

First Semester

Course Name :	Sanskrit-I
Course Code:	LBAS-C1/ LBSS-C1/ LBCS-C1/ LBMS-C1
CO 1:	Understanding learners in appreciating aesthetics in classical language.
CO 2:	Understanding Mahakavya and Khandakavya and its characters.
CO 3:	Able to understand the present societal issues.

Second Semester

Course Name :	Sanskrit-II
Course Code:	LBAS-C2/ LBSS-C2/ LBCS-C2/ LBMS-C2
CO 1:	Understand type of Kavya which is bit difficult.
CO 2:	Able to learn prose work, it will improve learner's proficiency.
CO 3:	Understanding the learning process and the nature, the structure of the Sanskrit language.

Third Semester

Course Name :	Sanskrit-III
Course Code:	LBAS-C3/ LBSS-C3/ LBCS-C3/ LBMS-C3
CO 1:	Able to understand the ethical values of present days.
CO 2:	Understand general public at every age and all levels of formal and non formal education.
CO 3:	It gives moral values of life in students that will inculcate or lead and influence them towards right path in their materialistic world.

Fourth Semester

Course Name :	Sanskrit-IV
Course Code:	LBAS-C4/ LBSS-C4/ LBCS-C4/ LBMS-C4
CO 1:	Able to understand the ethical values of present days.
CO 2:	Understand general public at every age and all levels of formal and non formal education.
CO 3:	It gives moral values of life in students that will inculcate or lead and influence them towards right path in their materialistic world.

Department of Economics

Program Specific Outcome

PSO 1: Understand the basic concepts and theories its evolution, Scope, Importance and Nature of Economics as a subject

PSO 2: Evaluate the economic system of India and understand the strengths and weakness of the country

PSO 3: Accessing the economic planning and its competence with the Private sector and monetary police

PSO 4: Extending the knowledge of International business and public finance

PSO 5: Understanding the need of International Trade and corporate economy

PSO 6: Evaluating the set up of International economic policy and HRM

PSO 7: To know the essence of world Trade in the course of Indian economy

PSO 8: Discuss the budget Indian

PSO 9: Understanding the ethical moral values in economy

PSO 10: Conceptual understanding of rural development

PSO 11: Evaluating the role of money in the Global level

PSO 12: Understanding the new trends in LPG (liberalization privatization globalization) such as New economic zone

Course Outcomes

First Semester

Course Name:	Economics-I
Paper Title:	Principles of Economics – I
Course Code:	ECO-C1
CO 1:	The students will gain the basic principles of microeconomic theory.
CO 2:	They will develop the skills to think like an economist.
CO 3:	The students would be able to apply tools of consumer behaviour and firm theory to economic situations
CO 4:	To able to understand price determination in different types of markets
CO 5:	The students will also be made aware of how microeconomic concepts can be applied to analyse real-life situations.

Second Semester

Course Name:	Economics-II
Paper Title:	Principles of Economics – II
Course Code:	ECO-C2
CO 1:	Students would be able to apply the modern tools of macro-economic analysis so as to minimize the adverse impact of macro-economic factors on economic activities.
CO 2:	The students will gain an understanding of the macroeconomic challenges and policy management in progressive nations.
CO 3:	Able to understand classical & Keynesian theories of output and employment
CO 4:	Able to understand process of credit creation by commercial banks.
CO 5:	The students will attain the ability for objective reasoning about macroeconomic issues.

Third Semester

Course Name:	Economics-III
Paper Title:	Quantitative methods in Economics
Course Code:	ECO-C3

CO 1:	To enable the students to understand economic concepts with the aid of mathematical tools.
CO 2:	Students would be armed with the knowledge of using different statistical tools very much required in the decision making process in any economic activities.
CO 3:	To able to understand methods of data collection & analysis.
CO 4:	Able to understand measuring central tendency.
CO 5:	To enrich the students awareness about Research Techniques.

Fourth Semester

Course Name:	Economics-IV
Paper Title:	International Economics
Course Code:	ECO-C4
CO 1:	To able to understand theories international trade.
CO 2:	The students will gain strong foundation in the principles of international economics
CO 3:	Students would be able to know the trade policies at the national and international levels
CO 4:	To able to understand foreign exchange market.
CO 5:	To able to understand international financial institutions.
CO 6:	Able to understand impact of the globalization on income, employment and social standards in the current international scenario, also gain an understanding of the trade policies.

Fifth Semester

Course Name:	Economics-V
Paper Title:	Fiscal Economics
Course Code:	ECO-C5.5
CO 1:	To able to understand concept of public fiancé.
CO 2:	To able to understand concept of fiscal policy.
CO 3:	Insight into the various functions of the government and problems in the allocation of the resources.
CO 4:	The students will gain theoretical and practical knowledge about the fiscal policy instruments and its relevance in the economic stabilisation.
CO 5:	Students would be able tounderstand the Centre state relations and problems confronted in the federal finance.

Course Name:	Economics-VI
Paper Title:	Karnataka Economy
Course Code:	ECO-C5.6
CO 1:	The student is able to understand the features and structural changes of Karnataka economy and compare with the growth pattern and challenges of other economies..
CO 2:	To understand the challenges and growth structure of regional economies are discussed in line with Karnataka economy
CO 3:	To able to understand role of agriculture and industry in Karnataka economy
CO 4:	To create an awareness about the financial operations of the Karnataka government.
CO 5:	The course enables the student to apply the theoretical knowledge in the actual working of Karnataka economy.

Sixth Semester

Course Name:	Economics-VII
Paper Title:	Indian Economic Development
Course Code:	ECO-C6.7
CO 1:	To understand the basic concepts related to economic development.
CO 2:	To enrich the students awareness about the Indian economy
CO 3:	The student is able to understand the features and structural changes of Indian economy and compare with the growth pattern and challenges of other economies.
CO 4:	Able to identify the key performance indicators and policies of the present economic environment of the country
CO 5:	To enable the students to comprehend and critically appraise the current trends and issues in the economy.
Course Name:	Economics-VIII
Paper Title:	Indian Financial Markets
Course Code:	ECO-C6.8
CO 1:	The student will acquire financial literacy skill particularly by giving information about the financial system, markets, services and regulatory bodies in India.
CO 2:	Able to understand role & activities of financial institutions.
CO 3:	To able to understand Non-banking financial institutions & financial services in India.
CO 4:	To able to understand new development in Indian financial system periods.
CO 5:	To able to understand international aspects of the Indian financial system.

Department of Journalism

Program Specific Outcomes

- PSO1:** Understand the Conceptual and Theoretical knowledge in Journalism and Mass Communication.
- PSO2:** Remembering the evolution, growth and Development of Mass Media.
- PSO3:** Discuss the functioning of Media Organisation. Train Students in with skills fulfilling the requirements of Media Organisation and Production house.
- PSO4:** Learns Reporting and Editing techniques.
- PSO5:** Discuss the Constitutional obligation rights and responsibilities.
- PSO6:** Aware of Socio-economic, Political, International view and opinions.
- PSO7:** Analysing New Media Technology.
- PSO8:** Understand Media Research and carryout dissertation.
- PSO9:** Discussing Professional Ethics to be followed in Media Industry.
- PSO10:** Trained in Producing Radio Programme, Live News, Documentaries, Short Films and Pagination.
- PSO11:** Hands on training on software used to Produce programmes.
- PSO12:** Analyse to build image of an organization and use skill in PR Profession.

Course Outcomes

First Semester

Course Name :	Journalism-I
Paper Title:	Introduction to Communication
Course Code:	JOR-C1
CO 1:	Students will understand basic concepts of Mass communication and Mass Media.
CO 2:	To familiarize with working of Mass Media
CO 3:	Introduce students to the Process of Communication and various models of Communication.
CO 4:	Understand the different type and Level of communication which makes them equipped.
CO 5:	Understand different Mass Media types and there characteristics.
CO 6:	Students would be able understand the role of Media on Society
CO 7:	Students will understand the role of various media in development on Globalization.

Second Semester

Course Name :	Journalism-II
Paper Title:	Introduction to Journalism
Course Code:	JOR- C2
CO 1:	Understand basic concepts of Journalism, Its Principles and Functions
CO 2:	Students would be able to understand the various types of Journalism and its importance.
CO 3:	Students understand the History, Growth and development of Printing, Print Media in India.
CO 4:	Introduce students to the role of Press Pre and Post Independences struggle in India.

CO 5:	Students will be able to understand the growth and development of Journalism in Karnataka.
CO 6:	To able to know the role and struggle of Kannada Press during Pre and Post- independence in Karnataka.
CO 7:	Understand the role of Language Press in India.
CO 8:	Introduce Theories of Press which will make them understand working of Media in various political setups.

Third Semester

Course Name :	Journalism-III
Paper Title:	Reporting
Course Code:	JOR- C3
CO 1:	Students would be able to understand the concepts of news, Reporting and Interview
CO 2:	Students will be able gather news, the report under different circumstances for different media types.
CO 3:	Student will be familiarized with the structure of Writing News story and Learn various methods of writing News Story.
CO 4:	Students learn Reporting types like Crime, Investigative, Development, Sports, Speech, Court and Page 3.
CO 5:	Students will be able to conduct Interviews
CO 6:	Students would be able to understand the duties and responsibilities of the reporter.

Course Name :	Journalism Lab-III
Course Code:	JOR-P3
CO 1:	Students will be trained to Report, Edit, Translate and Rewrite in Print Media.
CO 2:	Students will understand the aesthetics of reporting for TV and trained to produce Live Programme
CO 3:	Students would be able to do Field Reporting and PTC

Fourth Semester

Course Name :	Journalism-IV
Paper Title:	Editing Techniques
Course Code:	JOR-CO4
CO 1:	Introduce students to the functioning of the Newspaper Organization and Room.
CO 2:	Learns the role of Sub Editor, News Editor, and Chief Editor in Newsroom
CO 3:	Familiarize Editing Symbols and Editing techniques.
CO 4:	Students would be able to understand Headline Writing types and Functions.
CO 5:	Introduce students to Re-Writing and Translation and its principles
CO 6:	Learns the concept of typography and Purpose of it.
CO 7:	Familiarize the Software used in Page Designing

CO 8:	Students will understand the concepts of Page Layout and Designing and Learns the Designing types and principles.
Course Name :	Journalism Lab-IV
Course Code:	JOR-P4
CO 1:	Students will learn the Principles of Designing.
CO 2:	Students will be familiar with Indesign Software and trained to use the Editing Tools.
CO 3:	Students will learn the recent trends in designing Newspaper and magazine so they can produce 4 sheets newspaper.
Fifth Semester	
Course Name :	Journalism-V
Paper Title:	Basic Audio Visual Media
Course Code:	JOR-C5.5
CO 1:	Students will be aware of India's History, Growth and Development of Radio, Television and Cinema.
CO 2:	Students would be able to understand the Television and Radio Programme formats
CO 3:	Students familiarize with the broadcasting committees of India.
CO 4:	Students understand Cinema and Types of Cinema like documentaries, Short Films, Feature Films, Art Films and Corporate Films.
CO 5:	Learns Storyboard, Screenplay and Scripting for Television, Radio an Cinema
CO 6:	Understands impact of Electronic and New Media on Society.
Course Name :	Journalism-VI
Paper Title:	Media Laws an Acts
Course Code:	JOR-C5.6
CO 1:	Students will be able to understand Press Freedom in India in comparison with UK and USA
CO 2:	Students will understand Freedom of Speech and Expression and Reasonable restrictions
CO 3:	Students learn Press Legislation and Media Regulations in India.
CO 4:	Students will be familiar with laws like Defamation, Obscenity, Sedition, Contempt of Court and parliamentary Privileges.
CO 5:	Students learn Cyber laws and IT Act.
CO 6:	Students will be familiar with the case studies relating to it.
CO 7:	Students will be provided with knowledge on Media Acts and Ethics.
CO 8:	Students will Learn the provisions of RTI.
Course Name :	Journalism Lab-V
Course Code:	JOR-P5

CO 1:	Students are Trained with Lighting, Camera Angles, Camera tools and Video Editing
CO 2:	Student will be trained in Writing scripts for Programmes and Commercials and Also learns sound Editing
CO 3:	Students will be trained to Produce a Video Documentary and short film.
Sixth Semester	
Course Name :	Journalism-VII
Paper Title:	Media Research Methods
Course Code:	JOR – C6.7
CO 1:	Students would be able to get conceptual and theoretical knowledge on Scientific Research.
CO 2:	Students will be familiarized with research procedure.
CO 3:	Students would understand the framework of the research topic
CO 4:	Students will be trained to design and conduct research.
CO 5:	Students would be able to use the research Methodology, techniques and statistics.
CO 6:	Students would be able to produce Dissertation.
Course Name :	Journalism-VIII
Paper Title:	Advertising and Public Relations
Course Code:	JOR-C6.8
CO 1:	Familiarize students with the history of Public Relations and advertising in India.
CO 2:	Students would be able to learn the basic concepts of Advertising and Public Relations.
CO 3:	Students are trained to do Design advertising for Print and TV Commercials
CO 4:	Students understand the ethics to be followed in Advertising and Public Relation.
CO 5:	Students learn to design Advertising and Public Relations Campaigns.
CO 6:	Students will be introduced to functioning of Public Relation in Public and Private Sector.
CO 7:	Students will understand the role of Advertising on Society.
CO 8:	Students will learn Press conference functioning as they are assigned to do Mock Press conference.
Course Name :	Journalism Lab-VII
Course Code:	JOR-P6
CO 1:	Students will be trained in Mic, Sound Recording, Field recording and Audio Editing.
CO 2:	Students will be trained in writing script for various format of Radio Programme
CO 3:	Students are trained to produce a various programme format.

Department of Sociology

Program Specific Outcomes

PSO 1: Develop a strong foundation of Sociology as a distinctive discipline in Social Science arena, its nature, scope and relationship with other social sciences, basic concepts, principles and different perspectives.

PSO 2: Conceptualize with critical appraisal the grand theories of Sociology and contemporary social issues along with the History of the emergence of Sociology in the Classical era, the Western Classical Sociological thought and the contributions of the pioneers of Sociology in India.

PSO: Conceptualize the process of social change, development of modern organizations, and the importance of demography in bringing about social change..

PSO 4: Understand the significance of Sociology in studying human societies by studying Social Anthropology with variable features and attaining different positions across a variable continuum of stages of technological, economic and social development and change

PSO 5: Understand the methodology of Sociological research, its importance and application of different approaches to understand, analyse and resolve social issues for a better life in society as a whole.

PSO 6: Undertake a first-hand experience of sociological research in form of a survey-based dissertation with social issues of individual interest

PSO 7: Be competent to analyse, understand the problem at hand through literature survey; to develop the research question, to decide on proper methodology and limitations; to collect, analyse and interpret the data to arrive at unbiased conclusions and offer suggestions.

PSO 8: Conceptual understanding of rural development

PSO 9: Understanding the ethical moral values in industrial relations

PSO 10: Evaluating the current social problems

Course Outcomes

First Semester

Course Name:	Sociology-I
Paper Title:	Introductory Sociology; concepts and principles - I
Course Code:	SOC-C1
CO 1:	The students will understand the basic concepts of Sociology
CO 2:	They will develop the skills to think like a Sociologist.
CO 3:	The students would be able to understand the society in Sociological Perspective
CO 4:	To able to understand the basic concepts can be applied to analyse the society with sociological observations
CO 5:	It helps in competitive examinations like UPSC, KPSC, etc

Second Semester

Course Name:	Sociology-II
Paper Title:	Principles of sociology; Themes and perspectives - II
Course Code:	SOC-C2
CO 1:	Students will demonstrate the ability to communicate sociological knowledge to others.
CO 2:	The students will gain an understanding of the gender discrimination and inequalities in sociological perspective.
CO 3:	Students will develop the knowledge, skills and attitudes necessary to be engaged members of the community.
CO 4:	Able to understand process of social change and application of its theories.
CO 5:	Students are able to define knowledge and comprehension and explain the

relevance of each concept.

Third Semester

Course Name: Sociology-III

Paper Title: Sociology of Indian Society; perspectives on structure and change

Course Code: SOC-C3

CO 1: To enable the students to understand Indian society and explore the roots of Indian civilization through sociological perspective

CO 2: It enables students to know about the basic issues of society like Unity in Diversity, race, caste system etc.

CO 3: Define the globalization and analyses its impact on social, economic, political and cultural spheres.

CO 4: Able students to understand the importance of family in Indian society.

CO 5: To enrich the students awareness about the Indian villages through ages.

Fourth Semester

Course Name: Sociology -IV

Paper Title: Social Anthropology with reference to India

Course Code: SCO-C4

CO 1: To able to understand the basic knowledge regarding social Anthropology.

CO 2: The students will gain information regarding different theories propounded by theorists

CO 3: Students would be able to know the different forms of marriage, forms of kinship and distribution of people based on kinship in Indian society

CO 4: Introduce them with the geographical distribution, economy, polity, social organisation of tribal life in India.

CO 5: To know the problems faced by the tribes and policies programs taken by the government for the upliftment of tribes.

Fifth Semester

Course Name: Sociology -V

Paper Title: Methods and Techniques of social Research

Course Code: SOC-C5.5

CO 1: To able to understand meaning, scope, and types and significance of social research.

CO 2: To able to understand importance of research design in social research and know to formulate it.

CO 3: Enables to collect, analyses data and also enables to write a field report.

CO 4: The students will gain strong foundation regarding research knowledge which will help them in conducting field surveys and research activities

CO 5: Students would be able to understand the importance of research to join research oriented activities.

Course Name: Sociology -VI

Paper Title: Sociology of Demography

Course Code: SOC-C6.

CO 1: To understand the basic concepts related to social Demography.

CO 2: To enrich the students awareness about demographic factors of social change.

CO 3: The student is able to understand the theories of population and policies

CO 4: Able to understand the factors affecting mortality and fertility among Indian

	society
CO 5:	To enable the students to understand the population policy in India and also focuses on the social problems and eradication measures.
Sixth Semester	
Course Name:	Sociology-VII
Paper Title:	Sociology of Social Problems in India
Course Code:	SCO-C7
CO 1:	It enables students in creating awareness among them about the current social problems
CO 2:	To know the factors affecting the society through social problems.
CO 3:	To understand the challenges in solving social problems in this global era.
CO 4:	To make students in search of solutions to the social problems and keeping them aware of the current social issues concerning to the day to day life
CO 5:	It also enables to focus on providing eradicating measures to solve social problems.
Course Name:	Sociology-VIII
Paper Title:	Sociology of Rural development in India
Course Code:	SCO-C8
CO 1:	The student will acquire knowledge about the rural areas and developmental activities.
CO 2:	Understand and analyse social, economic and political aspects of rural development.
CO 3:	It focuses on the decentralisation of power and the participation of the public with respect to panchayat raj institution.
CO 4:	To able to understand the rural development programs which brought changes in the rural society.
CO 5:	To understand the changes in rural society with reference to cooperative movements to till present scenario.

Department of Botany

Programme Specific Outcomes

PSO1:A holistic development and academic excellence to contribute effectively to the understanding of the subject.

PSO2:Develop an aptitude towards innovative research in science, technology & nature.

PSO3:Enhance the research culture & uphold the scientific integrity & objectivity.

PSO4:To impart quality education in the field of Botany enabling students to confidently face the job market & equip young talented mind for self - employment.

PSO5:To sensitize the students towards the need for keeping the environment clean, conservation of precious natural resources & combating pollution.

PSO6:Develop industrial focused skills to lead a successful carrier.

PSO7:Motivation of students with specific temperament & transferable skills.

PSO8:Skills & understanding of variety of genomics & environmental biotechnology and bio-medical nanotechnology.

Course Outcomes

First Semester

Course Name:	Botany-I
Paper Title:	Microbiology, Virology, Cellular Prokaryotes & Phycology
Course Code:	BOT – C1
CO 1:	Awareness of new viruses in nature like H1N1, Ebola & Nipah.
CO 2:	Role of Bacteria in agriculture, industries & medicine.
CO 3:	Importance of Cyanobacteria in Food industry& agriculture.
CO 4:	Application of Phycology in industries.
CO 5:	Students obtain fundamentals & application knowledge of micro-organisms.
CO 6:	Awareness of phycology in bioremediation
CO 7:	Knowledge of cyanobacteria & algae in Bio – fertilizer industry.
CO 8:	Motivates students for Research assistant.

Course Name:	Botany Lab-I
Course Code:	BOT – P1
CO 1:	Develop the knowledge of identification & cultivation algae species.
CO 2:	Lab activities focus on specific identification of microbes.
CO 3:	Observations of various microscopes.

Second Semester

Course Name:	Botany-II
Paper Title:	Cell Biology, Mycology, Plant Pathology & Bryophyta
Course Code:	BOT – C2
CO 1:	Understanding the basic concepts of cell biology.
CO 2:	Awareness of symptoms, etiology & control measures of plant diseases.
CO 3:	Knowledge of Mycology in industries like medicine, baking & alcohol.
CO 4:	Medicinal values of bryophytes.

CO 5:	Cultivation of non- vascular plants as ornamentals & interior decorator.
CO 6:	Application of cell biology in research work.
CO 7:	Role of mycology in food industry.
CO 8:	Awareness of fungicides on health & environment.
Course Name:	Botany Lab-II
Course Code:	BOT – P2
CO 1:	Lab skills includes the use of hemocytometer in counting fungal spores.
CO 2:	Plant disease identifications.
CO 3:	Awareness of various types of Lichens.
Third Semester	
Course Name:	Botany-III
Paper Title:	Pteridophyta, Plant Anatomy, Classical Ecology & Embryology of Angiosperms - I
Course Code:	BOT – C3
CO 1:	Understand the ecological key features of biomes & aquatic ecosystems.
CO 2:	Awareness of cultivating pteridophytes as ornamental plants.
CO 3:	Ecologist& Conservationist.
CO 4:	To acquire the fundamental knowledge of embryology of angiosperms.
CO 5:	The knowledge of Plant Anatomy in dendrochronology.
CO 6:	Awareness of ecological succession & ecological adaptations.
CO 7:	Knowledge of Pteridophytes as bio fertilizer.
CO 8:	Plant anatomy in wood industry.
Course Name:	Botany Lab-III
Course Code:	BOT – P3
CO 1:	Slide preparations of Pteridophytes & Angiosperms.
CO 2:	Information of plant anatomy in Timber Industry.
CO 3:	Identification & Classification of Pteridophytes.
Fourth Semester	
Course Name:	Botany-IV
Paper Title:	Gymnosperms, Paleobotany & Organic Evolution, Embryology of Angiosperms – II & Applied Ecology and Phytogeography
Course Code:	BOT - 4
CO 1:	To study the structural & economic aspects of Gymnosperms.
CO 2:	Understand the environment conservation & combating pollutions.
CO 3:	To sensitize the students towards tissue culture & transgenic Plants.
CO 4:	Understand the evolutionary changes & behavior of organisms.
CO 5:	The knowledge of Phytogeographical regions of Karnataka & India.
CO 6:	Awareness of Paleobotany in the process of fossilization & types.
CO 7:	Fundamental knowledge of experimental embryology.
CO 8:	Evolutionary aspects of non-vascular & vascular plants.

Course Name:	Botany Lab-IV
Course Code:	BOT – P4
CO 1:	The analysis of physio-chemical parameters of water.
CO 2:	Plant embryological studies.
CO 3:	Slide preparations of angiosperms & gymnosperms.
Fifth Semester	
Course Name:	Botany-V
Paper Title:	Angiosperm Taxonomy, Economic, Ethnobotany & Horticultural Botany
Course Code:	BOT – C5.5
CO 1:	Botanical Survey of Plants in India.
CO 2:	Role of ethnobotany in medicine and drug extraction.
CO 3:	Acquire the knowledge of agro- based skills in horticulture.
CO 4:	Awareness of economic importance of oils, fibers & Beverages.
CO 5:	Understanding binomial nomenclature ICBN & its principles.
CO 6:	Knowledge of recent trends in taxonomy.
CO 7:	Awareness of Botanical Gardens of India.
CO 8:	Motivates the students to enroll in diploma courses of ethnobotany & horticulture.
Course Name:	Botany Lab-V
Course Code:	BOT – P5.5
CO 1:	Understand the economic importance of various plants.
CO 2:	Learn types of classifications, identifications of plants.
CO 3:	Cultivation of plants by horticulture method.
Course Name:	Botany-VI
Paper Title:	Plant Biochemistry, Cytogenetics & Plant Breeding & Molecular Biology
Course Code:	BOT – C5.6
CO 1:	Application of Plant biochemistry in nutrition, health care & medicine.
CO 2:	Understand various concepts of genetics & its impact on Plants & nature.
CO 3:	Acquire the new trends in plant breeding techniques.
CO 4:	Applications of breeding techniques in horticulture & floriculture.
CO 5:	The knowledge of molecular biology motivates to take research work among students.
CO 6:	Knowledge of natural products of plants like tannin, resin & essential oils, gums & alkaloids.
CO 7:	Applications of natural products in various industries.
CO 8:	Fundamental knowledge of molecular biology & genetics develops an aptitude towards science & nature.
Course Name:	Botany Lab-VI
Course Code:	BOT – P5.6

CO 1:	The Scientific Laboratory technician.
CO 2:	Slide preparations of mitosis & meiosis.
CO 3:	Plant biochemist in health care.
Sixth Semester	
Course Name:	Botany-VII
Paper Title:	Molecular Biology – II, Plant Physiology I & II.
Course Code:	BOT – C6.7
CO 1:	The knowledge of molecular biology in medicine and drug industries.
CO 2:	Plant physiology enhances the research culture among students.
CO 3:	Impact of quality education in Botany enables the students to face job market.
CO 4:	Molecular biology enables the students to understand the gene actions in prokaryotic & eukaryotic organisms.
CO 5:	Plant Physiology motivates teaching ability among students.
CO 6:	Molecular biology helps in understating the concept of gene regulation.
CO 7:	The fundamental concepts of plant physiology enhance the students thinking skills.
CO 8:	Practical applications of growth regulator motivate experimental skills of the student.
Course Name	Botany Lab-VII
Course Code:	BOT – P6.7
CO 1:	Impart an insight into the various plant – water relations.
CO 2:	Applications of growth regulators in horticulture & floriculture
CO 3:	The knowledge of molecular biology in Bio – Medical Science.
Course Name:	Botany-VIII
Paper Title:	Bioenergetics, Biotechnology, Modern Investigative Techniques in Biology & Frontiers of Modern Biology
Course Code:	BOT- C6.8
CO 1:	The fundamental concepts of bioenergy develop the knowledge & understanding of various process of plants Physiology.
CO 2:	To impart the knowledge of basic principles of biotechnology and various omics.
CO 3:	The knowledge of industrial biotechnology in vaccine production, enzyme production, agriculture & medicine.
CO 4:	Motivates students for higher studies in Bio – Medical Instrumentation.
CO 5:	The knowledge of biotechnology in Chemical & Pharmaceutical Industries.
CO 6:	Develop an aptitude towards innovative research in Science, technology & nature.
CO 7:	To equip young & talented students for self- employment.
CO 8:	Future challenges such as finding new way to combat disease, reduce pollution and feed the world's population.
Course Name:	Botany Lab-VIII

Course Code:	BOT – P6.8
CO 1:	Learn skills & techniques related to plant physiology which enhance their research skills.
CO 2:	Physiological effects of growth regulators.
CO 3:	The role of enzymes & growth hormones in tissue culture.

Department of Chemistry

Program Specific Outcomes

PSO1: Learns the basis of all sections of chemistry.

PSO2: Understands the importance of physical chemistry in the areas of atomic structure, magnetic properties, solid state, thermodynamics, phase rule, chemical kinetics, photo chemistry.

PSO3: Gains the necessity of organic chemistry in the areas of everyday life reaction mechanisms, stereochemistry, substitution and derivative formation.

PSO4: Appreciates the potential of inorganic chemistry in the sections of elements of periodic table, coordination chemistry, types of bonding, and bio inorganic chemistry .

PSO5: Validates the multiple utility of chemistry in the regions of medicinal chemistry, industrial and polymer chemistry .

PSO6: Studies the analytical skills in conducting experiments in the areas of inorganic, organic and physical chemistry.

Course Outcomes

First Semester

Course Name:	Chemistry-I
Paper Title:	Quantum Mechanics, Periodic Table and properties
Course Code:	CHE C1
CO 1:	Dual nature of electron can explain by de-Broglie. Wave nature of electron can explain by Schrodinger wave equation.
CO 2:	Electronegativity of elements can calculate by Pauling's method. Ionic character in the Covalent bond can be calculated. General properties of elements are determined.
CO 3:	To give brief introduction to oxidative- reduction reactions. It helps to prepared required normality of solutions.
CO 4:	An inorganic non-aqueous solvents is a solvent other than water, that is not an organic compound. These solvents are used in chemical reaction and industry for reactions.
Course Name:	Chemistry Lab-I
Course Code:	CHE-P1
CO 1:	Determination of the percentage of available Chlorine in a sample of bleaching powder.
CO 2:	Estimation of Carbonate and bicarbonate in a given mixture.
CO 3:	Estimation of Iodine in Potassium dichromate solution.

Second Semester

Course Name:	Chemistry-II
Paper Title:	Thermodynamics, Chemical bonding, Alkenes and Alkynes
Course Code:	CHE-C2
CO 1:	Helps to calculate changes in kinetic potential, enthalpy and internal energy. Able to construct energy and mass balance for unsteady -flow process. Calculation of thermal efficiency & co-efficient of performance of heat engine, refrigerator & heat pumps can be understand.

CO 2:	To calculate the energy required to formation of NaCl. Explain the Structure and bond angle for water, ammonia based on VSEPR theory. Metals can classified into conductors, semi conductor & insulators based on band theory.
CO 3:	These are derived from the silicate on SO_4^{4-} . These are used to make glass and ceramics.
CO 4:	Used for heating and cooking, electricity generations. The alkenes which have high number of carbon atoms are used for surfacing roads, manufacture of plastic or plastic products.
Course Name:	Chemistry Lab-II
Course Code:	CHE-P2
CO 1:	Analyze the colligative properties of nonvolatile solute & effects on its boiling points. Walker-lumsden apparatus can give the variation in temperature & effects of solute & solvents.
CO 2:	Determination of percentage composition of binary solution by surface tension method.
CO 3:	Determination of density, Viscosity & surface tension of a water and organic liquids.
Third Semester	
Course Name:	Chemistry-III
Paper Title:	Chemical Kinetics, Metallurgy, Alcohols and Thiols
Course Code:	CHE-C3
CO 1:	Helps to determine rate law of chemical change based on experimental data. Be able to be identifying the reaction order for the chemical change. Understand the Concepts of mechanism.
CO 2:	is the part of materials .Metals and the engineering of metal components for use in consumer products and manufactured goods. Metallurgy is the study and understanding of the physical and chemical. The use of materials technologies to manage bio-pathogens/microbes.
CO 3:	Able to apply <i>used</i> both stoichiometrically in research and industrial chemical reactions, as well as in the role of catalysts to increase the rates of such reactions.
CO 4:	Alcohol and thiol groups are important functional groups for applications ranging from enzyme reactions to making flexible contact lenses.
Course Name:	Chemistry Lab-III
Course Code:	CHE-P3
CO 1:	Manufacture of Aspirin
CO 2:	Preparation of metadinitrobenzene from nitrobenzene
CO 3:	Determination of melting points,boiling points for solids and liquids respectively.
Fourth Semester	
Course Name:	Chemistry-IV
Paper Title:	Aldehydes and Ketone
Course Code:	CHE-C4
CO 1:	Learn Surface Chemistry and Phase Rule: As a consequence, these <i>surface</i> atoms with changed atomic and electronic structures exhibit

	high <i>chemical</i> reactivity. The <i>phase rule</i> is a general principle governing systems in thermodynamic equilibrium. A phase is a form of matter that is homogeneous in <i>chemical</i> composition and <i>physical</i> state. ... is not influenced by gravitational, electrical or magnetic forces.
CO 2:	Able to analyze is the scientific study of the chemical and biochemical phenomena that occur in natural places. Students learn the basic principles of <i>environmental chemistry</i> .
CO 3:	:are usually more reactive toward nucleophilic substitutions than ketones because of both steric and electronic effects. In aldehydes, the relatively small hydrogen atom is attached to one side of the carbonyl group, while a larger R group is affixed to the other side.
CO 4:	Carboxylic acids and their derivatives: A number of similar molecules are considered <i>derivatives</i> of <i>carboxylic acids</i> . These compounds involve substitution of <i>the</i> hydroxyl group with another group, such as a chlorine atom. These <i>derivatives</i> are all linked by <i>their</i> combination of an acyl group with an electronegative element in <i>the</i> substituent group.
Course Name:	Chemistry Lab-IV
Course Code:	CHE-P4
CO 1:	Systematic qualitative analysis of simple organic salt mixture. i) $\text{NH}_4\text{Cl} + \text{ZnSO}_4$
CO 2:	ii) $\text{NH}_4\text{Br} + \text{MnCO}_3$
CO 3:	iii) $\text{KNO}_3 + \text{ZnCO}_3$
Fifth Semester	
Course Name:	Chemistry-V
Paper Title:	Organic Chemistry
Course Code:	CHE-C5
CO 1:	Thalidomide used as a therapy for leprosy. Woman must use it with contraceptives to prevent pregnancy.
CO 2:	More detail understandings of molecules present in human body cells and tissues. Molecules and their interaction with protein. So developed the pharmaceutical drugs (paracetamol, ranitidine).
CO 3:	These are very important for human survival. These are information carriers. Neurotransmitter and pyrimidines and nucleosides are a part of genetics materials that transfer information from one generation to other.
CO 4:	IR- It is used to determine functional groups in a molecule. UV-Detection of Conjugation and presence of aromatic ring in molecules. NMR-Detection of Shielding and deshielding spin-spin coupling in the molecules.
Course Name:	Chemistry Lab-V
Course Code:	CHE P5
CO 1:	Detection of Urea.
CO 2:	Detection of Glucose.
CO 3:	Qualitative analysis of different Organic compounds.
Course Name:	Chemistry-VI

Paper Title:	Physical Chemistry
Course Code:	CHE C6
CO 1:	It is uses in industry. The principle of cells are used to make electrical batteries in science and technology, a battery is device that store chemical energy and makes it available in an electrical form. Movement of electron from one element to other in a reaction is known as redox reaction.
CO 2:	By knowing the dipole moment values of the molecules to predicting of i) Geometry ii) differentiating trans and cis form iii) Ortho, para and Meta isomers of the Compounds.
CO 3:	Rotational Spectra studies i) moment of inertia ii) bond length & bond angle in a heterodiatomic molecules. Vibration Spectra: i) Determination of chemical composition. ii) Function group present in a molecule. Raman Spectra: It arises due to light Scattering, polarisibility of a molecules, water is used as solvent.
CO 4:	It is the study of chemical process that occur because of the absorption of light. To generate electricity is great practical significance.
Course Name:	Chemistry Lab-VI
Course Code:	CHE P6
CO 1:	Determination of pK_a of weak acid by pH metric method.
CO 2:	Determination of percentage NaCl by phenol water system.
CO 3:	Estimation of copper by colorimetric method.
Sixth Semester	
Course Name:	Chemistry-VII
Paper Title:	Inorganic Chemistry
Course Code:	CHE-C7
CO 1:	Explain metal ion binding to biomolecules and functions, transfer applications of Bio-Inorganic Chemistry.
CO 2:	Recognize symmetry elements in a molecule, this molecule will develop skills innumeracy ,point grasp and problem solving.
CO 3:	Understand the construction and working of various equipment's used in distillation, extraction leaching, absorption and filtration.
CO 4:	Coordination and Organometallic Chemistry: Describe various metal – ligand interactions in terms of sigma & pi bonding interactions. Describe & Explain the bonding in the metal complexes using crystal field & ligand field theories.
Course Name:	Chemistry Lab-VII
Course Code:	CHE P7
CO 1:	Metal ion estimation is very important for industry, students get idea of different methods of estimation of a large number of ions present.
CO 2:	This helps to develop necessary skills & understand the basic principle to estimate hardness of water in the industry.
CO 3:	Estimation of copper in brass in Gravimetric method.
Course Name:	Chemistry-VIII
Paper Title:	Biochemistry

Course Code:	CHE-C8
CO 1:	It gives the idea about the effect of metal ions in living system and also with different drugs. Enumerates the biochemical function of water, buffer and cell.
CO 2:	Know the hormone structure, function and its role in regulating the metabolism. The chemical and molecular process occurs in and between cells.
CO 3:	The students will have Knowledge of metabolic pathways leads to synthesis and catabolism of major biomolecules. Relate the movement of electrons to redox reactions. Describe how cells store & transfer free energy using ATD.
CO 4:	Describe the classification & mechanism of enzyme action.
Course Name:	Chemistry Lab-VIII
Course Code:	CHE-P8
CO 1:	Biochemistry major will gain proficiency in basic laboratory techniques. Determining the oxidation of glucose in the blood or in the urine is possible.
CO 2:	As knowledge of main characteristics of the various milk protein is essential to obtain reliable analytical data concerning in the various dairy products. Students will analyze primary technique, include evaluation of experimental techniques.

Department of Computer Science

Program Specific Outcomes

PSO 1: Demonstrate an understanding of core concept in the area of Computer Science.

PSO 2: Acquire knowledge to analyze, design and develop computer programs.

PSO 3: Apply standard Software Engineering practices and strategies in software project development using open-source programming environment to deliver a quality product for business success.

PSO 4: Be acquainted with the contemporary issues, latest trends in technological development and thereby innovate new ideas and solutions to existing problems.

PSO 5: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools.

Course Outcomes

First Semester

Course Name :	Computer Science-I
Paper Title:	Computer Organization and Programming in C
Course Code:	CS-C1
CO 1:	Be familiar with the history and development of modern computers. Be familiar with Number System and Boolean algebra.
CO 2:	Be familiar with Combinational and logic circuits. Be familiar with organization and design of modern computer and its architecture.
CO 4:	Analyze the given problem and write the algorithm, flowchart.
CO 5:	Implementing different concepts in developing applications including control structures, arrays, strings, pointers and functions.
Course Name :	Computer Science Lab-I
Course Code:	CS-P1
CO 1:	Students acquire the knowledge to build the logic and develop a solution for a problem statement .
CO 2:	Students acquire the knowledge to build the logic.

Second Semester

Course Name :	Computer Science-II
Paper Title:	Data Structures using C and Operating System
Course Code:	CS-C2
CO 1:	Understanding the need for Data Structures when building applications.
CO 2:	Able to apply different types of data structures like stack, queues, linked list etc. based upon the requirement.
CO 3:	Student will gain experience in implementing and manipulating common components of modern operating systems.
CO 4:	Summarizes the full range of considerations in the design of file systems, summaries techniques for achieving synchronization in an operation system.
Course Name :	Computer Science Lab-II

Course Code:	CS-P2
CO 1:	Upon completion of the course, the students acquire the knowledge to build the logic using different data structure concepts.
CO 2:	Able to develop a optimized solution for the given problem statement.
Third Semester	
Course Name :	Computer Science-III
Paper Title:	Unix Operating System and Software Engineering
Course Code:	CS-C3
CO 1:	Able to understand the Unix Operating System and the working of the built in commands available in Unix.
CO 2:	Design and develop shell programming, communication, System calls and terminology.
CO 3:	Design and develop UNIX File I/O and UNIX Processes.
CO 4:	Ability to apply software engineering principles and techniques.
CO 5:	Ability to develop, maintain and evaluate large-scale software systems.
CO 6:	To produce efficient, reliable, robust and cost-effective software solutions.
Course Name :	Computer Science Lab-III
Course Code:	CS-P3
CO 1:	Able to write Shell programs.
CO 2:	Able to use unix commands.
CO 3:	Able to write menu driven programs and file handling programs.
Fourth Semester	
Course Name :	Computer Science-IV
Paper Title:	Database Management Systems
Course Code:	CS-C4
CO 1:	Have a broad understanding of database concepts and database management system software.
CO 2:	Have a high-level understanding of major DBMS components and their function.
CO 3:	Be able to model an application's data requirements using conceptual modeling tools like ER diagrams and design database schemas based on the conceptual model.
CO 4:	Learning structured query language.
CO 5:	Understanding query optimization.
Course Name :	Computer Science Lab-IV
Course Code:	CS-P4
CO 1:	Students are familiarized in developing simple and complicated queries.
CO 2:	Able to handle DDL and DML Commands.
Fifth Semester	
Course Name :	Computer Science-V
Paper Title:	Object Oriented Programming using Java
Course Code:	CS-C5.5
CO 1:	Read and understand Java-based software code of medium-to-high

	complexity.
CO 2:	Upon completing requirements for this course, the student will be able to create a software application using the Java programming language.
CO 3:	Understanding Interfaces, Multiple Inheritance, And Packages.
CO 4:	Able to use exceptions Handling , threads other error handling.
CO 5:	Able to Creating Applets and event handling.
CO 6:	Handling Abstract Window Toolkit and working.
Course Name :	Computer Science Lab-V JAVA PRGRAMIN LAB
Course Code:	CS-P5.5
CO 1:	Able to design and execute Java programs.
CO 2:	Able to Create objects for tree sets.
CO 3:	Able to create stacks and applets.
Course Name :	Computer Science-VI
Paper Title:	Visual Programming
Course Code:	CS-C5.6
CO 1:	The student will be able to Design, create, build, and debug Visual Basic applications. Explore Visual Basic's Integrated Development Environment (IDE).
CO 2:	Understand .NET Framework and describe some of the major enhancements to the new version of Visual Basic.
CO 3:	Describe the basic structure of a Visual Basic.NET project and use main features of the integrated development environment (IDE)
CO 4:	Able to create Console and Windows applications.
CO 5:	Able to design database applications using ADO .NET.
Course Name :	Computer Science Lab-VI
Course Code:	CS-P5.6
CO 1:	Able to develop VB programs.
CO 2:	Able to work with concepts like ADO.Net, Datagrid and Crystal report.
CO 3:	Able to implement object oriented concepts like inheritance, polymorphism, and abstraction.
Sixth Semester	
Course Name :	Computer Science-VII
Paper Title:	Mobile Computing and Wireless Communications
Course Code:	CS-C6.7
CO 1:	Able to describe wireless and mobile communications systems and be able to choose an appropriate mobile system from a set of requirements.
CO 2:	Able to avoid or work around the weaknesses of mobile computing, or to reject mobile computing as a solution
CO 3:	Demonstrate basic skills for cellular networks design.
Course Name :	Computer Science Lab-VII
Paper Title:	CS-P6.7

Course Code:	PROJECT WORK
CO 1:	Develop a functional application based on the software design.
CO 2:	Apply coding, debugging and testing tools to enhance the quality of the software.
CO 3:	Construct new software system based on the theory and practice gained through this exercise.
CO 4:	Prepare the proper documentation of software projects following the standard guidelines.
CO 5:	Learn technical report and oral presentation skills.
Course Name :	Computer Science-VIII
Paper Title:	CS-C6.8
Course Code:	Computer Networks
CO 1:	Independently understand basic computer network technology.
CO 2:	Understand and explain Data Communications System and its components
CO 3:	Identify the different types of network topologies and protocols.
CO 4:	Enumerate the layers of the OSI model and TCP/IP. Explain the function(s) of each layer.
CO 5:	Identify the different types of network devices and their functions within a network.
CO 6:	Understand and building the skills of subnetting and routing mechanisms.
CO 7:	Familiarity with the basic protocols of computer networks, and how they can be used to assist in network design and implementation.

Department of Electronics

Programme Specific Outcomes

PSO1: Understanding the working of basic topics like transistors, FETs, Power Devices, Op-amp, digital circuits and Signals and systems.

PSO2: Understanding various communication Systems like analog, digital, pulse, microwave, optical fibers, Cellular communication and satellite communication system.

PSO3: Understanding research topics like MEMS technology and Thin Film technology.

PSO4: Analyze of the applications of microcontroller, PLD's, CPLD and FPGA.

PSO5: Analyze the programming languages like Assembly, C, embedded C, Verilog and MATLAB.

PSO6: Perform procedures as per laboratory standards in the areas like Basic devices, digital circuits, microcontroller, analog communication systems, digital and pulse communication systems, microwave and optical fiber communication systems.

PSO7: Programs based on various languages using tools like Turbo C++, Keil, Xilinx, MATLAB are performed as per the laboratory standards.

PSO8: Understanding the applications of electronics in the field of Agriculture, Avionics, biomedical instrumentation, Control systems, DSP, image processing, Hardware designing, VLSI, MEMS, thin film, Nano and NEMS technology.

Course Outcomes

First Semester

Course Name:	Electronics-I
Paper Title:	Basic Electronics-I
Course Code:	ELE-C1
CO 1:	Strengthens the Basics of Electronics.
CO 2:	Able to analyze the circuits using Network theorems.
CO 3:	Able to Analyze the Series and parallel resonant circuits.
CO 4:	Able to Analyze the BJT and FET circuits.
CO 5:	Able to Analyze the BJT and FET Amplifier circuits.
CO 6:	Able to Understand the Working of digital electronics circuits.

Course Name:	Electronics Lab-I
Course Code:	ELE-P1
CO 1:	Students are made to rig up the circuit on a breadboard.
CO 2:	Students Trouble shoot the basic electronic circuits and basic digital circuits.

Second Semester

Course Name:	Electronics-II
---------------------	-----------------------

Paper Title:	Basic Electronics-II
Course Code:	ELE-C2
CO 1:	Strengthen the basics of Electronics
CO 2:	Able to analyze the feedback amplifier circuits
CO 3:	Able to analyze the oscillator circuits
CO 4:	Able to analyze the Power amplifier circuits
CO 5:	Able to analyze the UJT and SCR circuits
CO 6:	Able to recognize the different types of sensors and transducers
CO 7:	Able to find their application in different areas
Course Name:	Electronics Lab-II
Course Code:	ELE-P2
CO 1:	Students are made to rig up the circuit on a breadboard.
CO 2:	Students Troubleshoot the op-amp circuits
CO 3:	Students can study the characteristics of power electronics devices
Third Semester	
Course Name:	Electronics-III
Paper Title:	Advanced Electronics-I
Course Code:	ELE-C3
CO 1:	Able to design the logical circuits for sequential circuits,
CO 2:	Students can write the codes using C programming
CO 3:	Gets the knowledge about nano materials and its synthesis mechanism and characterization techniques.
Course Name:	Electronics Lab-III
Course Code:	ELE-P2
CO 1:	Students understand the working of sequential logic circuits.
CO 2:	Encourages student to write C programs
Fourth Semester	
Course Name:	Electronics-IV
Paper Title:	Advanced Electronics-II
Course Code:	ELE-C4
CO 1:	Able to understand the application of digital electronics
CO 2:	Able to write the codes for microcontroller using assembly level language as well as embedded C.
CO 3:	Students will get the knowledge of MEMS technology in the research area.
Course Name:	Electronics Lab-IV
Course Code:	ELE-P4
CO 1:	Students write assembly level programs for microcontroller 8051.
CO 2:	Students write programs in embedded C for microcontroller 8051.
CO 3:	Higher level programming like timer, counter, interrupt and serial programs are executed in KEIL software.

Fifth Semester	
Course Name:	Electronics-V
Paper Title:	Communications
Course Code:	ELE-C5.5
CO 1:	Able to explain the basics of Communications Techniques and Devices.
CO 2:	The students will also be able to explain about the various types of Communications Techniques.
CO 3:	A through knowledge on antennas
CO 4:	A brief introduction to Mobile communication system.
CO 5:	A brief introduction to Satellite communication system.
CO 6:	A brief introduction to microwave communication system.
Course Name:	Electronics Lab-V
Course Code:	ELE-P5.5
CO 1:	Students Rig up communication circuits on a bread board.
CO 2:	Analysis of the outputs of various communication systems and trouble shooting.
Course Name:	Electronics-VI
Paper Title:	Verilog And Instrumentation
Course Code:	ELE-C5.6
CO 1:	Able to understand hardware programming basics.
CO 2:	Students will learn various verilog programming description types.
CO 3:	Able to write program and design circuit for any given truth table or Boolean equation.
CO 4:	A brief introduction to Biomedical Instrumentation system
CO 5:	Vital biomedical devices like ECG, EEG, Respiratory, pacemaker and defibrillator are studied.
Course Name:	Electronics Lab-VI
Course Code:	ELE-P5.6
CO 1:	Write verilog programs to design digital circuits
CO 2:	Use XILINX software to simulate the written verilog [programs
CO 3:	Download the verilog code on to a FPGA kit and prototypes the design.
Sixth Semester	
Course Name:	Electronics-VII
Paper Title:	Semiconductor Devices And Nano Technology
Course Code:	ELE-C6.7
CO 1:	Students are given basic knowledge on semiconductor theory.
CO 2:	A through introduction to nano devices and materials.
CO 3:	Characterization technique and devices to study nano devices.
CO 4:	Introduction to MEMS and MEMS application.
CO 5:	MEMS sensors and Actuators: various types, construction, working and applications.

Course Name:	Electronics Lab-VII
Course Code:	ELE-P6.7
CO 1:	Analysis of various advanced communication systems.
CO 2:	Study the outputs of circuits like TDMA, Delta, PAM etc.,
CO 3:	Study various microwave devices like magic tees, directional couplers using microwave bench
Course Name:	Electronics-VIII
Paper Title:	Signals & Systems
Course Code:	ELE-C6.8
CO 1:	Able to analyze the functioning of a signal and the mechanism behind the processing of a digital signal.
CO 2:	Learn signal analyzing techniques like Fourier, Laplace and Z transform
CO 3:	Learn to manipulate signals by understanding their properties.
CO 4:	Study the analysis of LTI Systems.
Course Name:	Electronics Lab-VIII
Course Code:	ELE-P6.8
CO 1:	Learn to work on MATLAB
CO 2:	Write programs to manipulate the signals
CO 3:	Analyze the output plots.

Department of Mathematics

Program Specific Outcomes

PS01:Familiar with different areas of Mathematics.

PS02:Formulate and develop mathematical arguments in a logical manner.

PS03:Acquire good knowledge and understanding in advanced area of Mathematics.

PS04:Able to solve problems using broad range of significant mathematical techniques.

PS05:Think critically and communicate clearly mathematical concepts and solutions to real world problem.

PS06:Develop the skills necessary to formulate and understand proofs and to provide justification.

PS07:To enable the students to cultivate a mathematical way of thinking.

PS08:To provide high quality mathematical education at all levels that will vital for scientific technological developments.

PS09:Understand, formulate and use quantitative models arising in social science business and other context

PS010:Identify the applications of Mathematics in other disciplines and society.

Course Outcome

First Semester

Course Name :	Mathematics-I
Paper Title:	Algebra-I, Calculus-I and Geometry
Course Code:	MAT-C1
CO 1:	Analyze mapping groups, abelian groups, symmetric groups and their properties.
CO 2:	Gain knowledge in the structure of permutation groups.
CO 3:	Understand difference between ordinary derivatives and partial derivatives.
CO 4:	Apply calculus in physical sciences and social sciences.
CO 5:	Solve the problems of lines in 3 dimensions, planes, spheres and cylinders and how geometry is related to algebra by using their algebraic equations.
Course Name :	Mathematics Lab-I
Course Code:	MAT-P1
CO 1:	Students will be able to understand the command line computing environment of SCILAB and use some of its most basic commands.
CO 2:	Solve the problems and theorems on calculus by using maxima software.
CO 3:	Perform arithmetic operations and inbuilt functions and interpret their output mathematically.

Second Semester

Course Name :	Mathematics-II
Paper Title:	Algebra-II, Calculus-II and Differential equations-I
Course Code:	MAT-C2
CO 1:	Gain knowledge in matrix theory, determinants and their applications to system of linear equations.
CO 2:	Find Eigen values and Eigen vectors of matrices and reduction of system of linear equation into simpler system of easily tractable nature.
CO 3:	Find length, area, surface area and volume of certain curves using integral

	calculus.
CO 4:	Recognize different types of first order ODEs including separable, Exact, homogeneous linear Bernoulli's equation.
CO 5:	Solve model problems in nature using ordinary differential equation.
Course Name :	Mathematics Lab-II
Course Code:	MAT-P2
CO 1:	Students will be able to use operations on matrices and verify some theoretically established results and apply matrix operations to solve a system of linear equations.
CO 2:	Use commands to draw graphs in two and three dimensions.
CO 3:	Solve differential equations by maxima commands.
Third Semester	
Course Name :	Mathematics-III
Paper Title:	Algebra-III, calculus-III and differential equations-II
Course Code:	MAT-C3
CO 1:	Decide whether given group is cyclic and given finite cyclic group find a generator for a subgroup of given order.
CO 2:	Have the knowledge to know convergence of the sequence.
CO 3:	Have working knowledge of basic applications problems.
CO 4:	Have full knowledge of calculus involving the fundamental tools such as continuity and differentiability.
CO 5:	Identify and apply the intermediate value theorem, mean value theorem and L'Hospitals rule.
Course Name :	Mathematics Lab-III
Course Code:	MAT-P3
CO 1:	Student will be able to understand Geometrical representation and problem solving on MVT and Rolle's theorem by using maxima software.
CO 2:	Finding extreme values of function by using maxima software.
CO 3:	Test the convergence of sequences by using maxima commands.
Fourth Semester	
Course Name :	Mathematics-IV
Paper Title:	Algebra-IV, Real analysis-II, Fourier series, and Mathematical methods-I
Course Code:	MAT-C4
	After completion of this course students will be able to :
CO 1:	Gain knowledge of normal sub group and understand the structure and characteristics of this group.
CO 2:	Determine if infinite series is convergent or divergent by selecting appropriate test like p-series comparison test , ratio test, root test etc.
CO 3:	Learn to find sum to infinity of the series.
CO 4:	Analyze and solve real world problems by using Fourier series.
CO 5:	Apply Laplace transform to determine general or complete solution to linear ODEs.

Course Name :	Mathematics Lab-IV
Course Code:	MAT-P4
CO 1:	Student will be able to find differentiation and integration of Laplace transform and find the inverse Laplace transform by using maxima.
CO 2:	Test the convergence of series by using maxima commands.
CO 3:	Find Fourier series and half range Fourier series using maxima commands.
Fifth Semester	
Course Name :	Mathematics-V
Paper Title:	Algebra-V, Calculus-V and Numerical method-I
Course Code:	MAT-C5.5
CO 1:	Gains the knowledge in ring theory and expose to the concepts of quotient rings and fields.
CO 2:	Determine and apply important quantities associated with scalar fields such as gradient and directional derivative.
CO 3:	Demonstrate the use of various interpolation method to find intermediate values in given tabulated data.
CO 4:	Calculate definite integral using an appropriate numerical methods.
CO 5:	Apply numerical analysis which has enormous application in the field of science.
Course Name :	Mathematics Lab-V
Course Code:	MAT-P5.5
CO 1:	Students will be able to Analyze Rings, Integrals domains, Fields, Ideals, quotient rings, Homomorphism, isomorphism and their properties by using Scilab/Maxima.
CO 2:	Evaluate Gradient and Directional derivative of scalar field, Divergence and Curl of vectors fields by using Scilab\Maxima.
CO 3:	Learns general programs on interpolations with equal and unequally spaced points and also learns programs of various methods of numerical integration.
Course Name :	Mathematics-VI
Paper Title:	Mathematical method-II and Calculus-VI
Course Code:	MAT-C5.6
	After completion of this module students will be able to :
CO 1:	Understand that functionals have some appreciation of their applications.
CO 2:	Give account of foundations of calculus of variations and of its application in Mathematics and Physics.
CO 3:	Apply the technics of double and triple integral to various problems of finding area , volume , moment of inertia of the plane and solid region.
CO 4:	Find line integral, double integral and triple integrals to verify Greens theorem, Gauss divergence theorem and Stokes theorem.
CO 5:	Apply integral theorems in physical sciences.
Course Name :	Mathematics Lab-VI
Course Code:	MAT-P5.6

CO 1:	Students will be able to write a program on standard examples of Euler's equations.
CO 2:	Evaluate multiple integrals by using Scilab/maxima programs.
CO 3:	Verify the integral theorems using Scilab/maxima.
Sixth Semester	
Course Name :	Mathematics-VII
Paper Title:	Algebra-VII and Differential equations-III
Course Code:	MAT-C6.7
CO 1:	Use the concepts of basis and dimension of vector space, linear depends and linear independents to solve problems.
CO 2:	Use curvilinear coordinate system in vector calculus.
CO 3:	Express cylindrical and spherical co-ordinate system in orthogonal curvilinear system.
CO 4:	Understand basic properties of standard PDE.
CO 5:	Demonstrate capacity to model physical phenomenon using PDE.
Course Name :	Mathematics Lab-VII
Course Code:	MAT-P6.7
CO 1:	Students will be able to solve partial differential equations using maxima commands.
CO 2:	Find Dimension and basis of a vector space and prove their properties and also Analyze Linear Transformations using Scilab/maxima commands.
CO 3:	Find the solution of one dimension heat and wave equations by using maxima commands.
Course Name :	Mathematics-VIII
Paper Title:	Analysis-III and Numerical methods-II
Course Code:	MAT-C6.8
CO 1:	Evaluate integrals along a path in the complex plane.
CO 2:	Understand the theory and technics of complex integration.
CO 3:	Apply the concept and consequences of analyticity and C-R equations and results on harmonic functions and fundamental theory of algebra.
CO 4:	Construct conformal mappings between many kinds of domain.
CO 5:	Solve algebraic and transcidental equation, system of linwar equations by numerical methods.
Course Name :	Mathematics Lab-VIII
Course Code:	MAT-P6.8
CO 1:	Students will be able to learn programs on various numerical methods to solve algebraic and transcidental equations.
CO 2:	Analyze the different concept on complex analysis.
CO 3:	Solve the problems on Cauchy integral formula by using Scilab/maxima.

Department of Physics

Program Specific Outcome

PS01: Demonstrate an understanding of core theories and principles of Physics Chemistry, Mathematics.

PS02: Through this program the students will acquire the capacity to apply the knowledge acquired in the classroom and laboratories to specific problems in theoretical and experimental Physics, Chemistry and Mathematics.

PS03: Engage in current discussions of advanced topics in Physical and Applied Sciences.

PS04: The fundamental concepts and applications will enable the students to use this knowledge to analyze new situations and learn skills and tools like mathematics, engineering and technology to find the solution, interpret the results and make predictions for the future developments.

PS05: The program exposes the student to the vast scope of Physics as a theoretical and experimental science with applications in solving most of the problems in nature spanning from 10^{-15} m to 10^{26} m in space and 10^{-10} eV to 10^{25} eV in energy dimensions.

PS06: The Program emphasizes that, the discipline of Physics along with Chemistry and Mathematics is most important combination of science for pursuing the interdisciplinary and multidisciplinary higher education and/or research in interdisciplinary and multidisciplinary areas.

PS07: Discuss the importance of a research based Mathematical program.

Take up higher education and become researchers as well as teachers of Science which is the need of the country today.

PS08: The program emphasizes Physics Chemistry and Mathematics as the most important discipline for sustaining the existing industries and establishing new ones to create job opportunities at all levels of employment.

PS09: Contribute to the knowledge base of Science by being innovative having been exposed to the recent developments in the field of science.

PS010: Exhibit a scientific temperament which is the chief objective of this institution.

Course Outcomes

First Semester

Course Name:	Physics-I
Paper Title:	Mechanics, Heat, Thermodynamics, Properties of matter, Waves and Oscillations
Course Code:	PHY-C1
CO 1:	Cartesian and polar coordinate systems are learnt with vector representation of velocity and acceleration. Graphical visualization is understood. The students will be able to apply the basic Newton's laws of motion in problem solving, the nature of different types of friction forces and drawing free body diagrams.
CO 2:	In thermodynamics, the students learn to interpret pV diagrams, meaning of heat and work done and various processes of heat transfer. Calculations involving idealized Carnot cycle for engines and refrigerators, meaning of entropy and how to use this concept to analyze thermodynamic processes.

CO 3:	The thermal physics helps in understanding the basic gas laws, concept of degrees of freedom and calculation of mean free path of gas molecules. Surface tension calculation and interpretation, capillary action, and the factors affecting surface tension are learnt.
CO 4:	Waves and oscillation help in understanding the concept of simple harmonic motion and its projection, different types of waves and the mathematics behind it. The basic concept of Fourier analyses is learnt.
Course Name:	Physics Lab-I
Course Code:	PHY-P1
CO 1:	The concept of conservation of energy and linear momentum is learnt.
CO 2:	The calculation of 'g' using a spring and bar pendulum is done. The thermal properties are experimentally understood and studied.
CO 3:	The concept of surface tension is understood and calculated.
Second Semester	
Course Name:	Physics-II
Paper Title:	Mechanics, Heat, Thermodynamics, Properties of matter, Gravitation and viscosity
Course Code:	PHY-C2
CO 1:	The concept of inertial and non-inertial along with its applications to different frames are understood. The concept of Coriolis force is brushed upon. Moment of inertia is understood along with the calculation of the same for various cases. The relation between angular momentum and torque is proved mathematically.
CO 2:	The concepts of internal energy, enthalpy and free energy are introduced. The concept is further built and Maxwell's thermodynamic potential, Clausius Clapeyron equations and the internal energy are learnt. The low temperature physics is used to introduce concepts of Thomson effect, temperature inversion, adiabatic demagnetization and different methods of liquefaction of gases.
CO 3:	The concept of elasticity is put forth with the intention of teaching about stress, strain, Poisson's ratio, elastic work done, couple per unit twist, single cantilever. The concept of buoyant force, equation of continuity and Bernoulli's theorem- its applications are introduced. The concept of viscosity and the factors affecting it, types of flow and Poiseuille's formula for fluids is understood.
CO 4:	The Newton's laws are derived in vector form. Kepler's laws are deduced from Newton's law of gravitation. The calculation of universal gravitational constant is done by Boy's method.
Course Name:	Physics Lab-II
Course Code:	PHY-P2
CO 1:	Young's modulus is calculated using single cantilever and by stretching
CO 2:	The concept of couple per unit twist is for verification of parallel and perpendicular axes theorem, M.I of irregular body, M.I of fly wheel, torsional pendulum and rigidity modulus by dynamic method.

CO 3:	The concept of couple is used for calculating rigidity modulus by static method.
Third Semester	
Course Name:	Physics-III
Paper Title:	Electricity, Magnetism and Radiation
Course Code:	PHY-C3
CO 1:	The basics of magnetism is reviewed to help the student with the concepts. This is further built to help understand Lorentz force, ballistic galvanometer, Biot- Savart law, ampere's law and the problem application.
CO 2:	The concepts of curl and divergence is learnt. This is then used to teach the concepts of electromagnetism, setting up of Maxwell's equations, Poynting theorem and skin effect and their application to problems.
CO 3:	The network theorems are introduced and its numerical problems are taught. The growth and decay of current and charges are learnt for RC, LC and LCR circuit. The response of these circuits to AC is also understood along with the concepts of impedance and resonance circuits. Problem solving techniques for these concepts are taught.
CO 4:	The various thermoelectric effects s studied and their application in problems is learnt.The concept of different laws of radiations is introduced.
Course Name:	Physics Lab-III
Course Code:	PHY-P1
CO 1:	The verification of various network theorem is practically demonstrated.
CO 2:	de-sauty's bridge, and resonance in LCR circuits are learnt.
CO 3:	The working of the ballistic galvanometer is observed.
Fourth Semester	
Course Name:	Physics-IV
Paper Title:	Acoustics, Optics and Lasers
Course Code:	PHY-C4
CO 1:	Using different methods to find velocity of light merits and demerits of each method.
CO 2:	Applying Concept of elasticity to understand different aspects of waves.
CO 3:	Use the principles of wave motion and superposition to explain the Physics of polarization, interference and diffraction
CO 4:	Theoretical Concepts laser and production of the same followed by its application in different fields
Course Name:	Physics Lab-IV
Course Code:	PHY-P4
CO 1:	In the laboratory course, student will gain hands-on experience of using various optical instruments and making finer measurements of wavelength of light using diffraction by reflection and transmission experiment.
CO 2:	Through Newton Rings and air wedge experiments radius of curvature

	and thickness of obstacle
CO 3:	An application of diffraction to find diameter of a wire and analyzing spring structure
Fifth Semester	
Course Name:	Physics-V
Paper Title:	Relativity & Electronics
Course Code:	PHY-C 5.5
CO 1:	Understanding the concepts of relativity length contraction, time dilation and mass increase through theoretical concepts and experimental analysis.
CO 2:	Semiconductor concepts, progress to understand different types of transistors their properties, behavior and their usage in different contexts followed by FET's and their applications. CRO and its applications.
CO 3:	understanding number systems in the background of digital electronics, different number systems, binary system and their relation to codes, Boolean algebra and application to logic statements. Theorems that operate on logic statements and equations. Concept design and application of Operational amplifiers
Course Name:	Physics Lab-V
Course Code:	PHY-P5.5
CO 1:	FET transistor its characteristic and application
CO 2:	Usage of Operational Amplifiers as integrator, differentiator, inverter and non-inverter. Using CRO.
CO 3:	RC circuits as coupled amplifiers and phase shift oscillators.
Course Name:	Physics-VI
Paper Title:	Quantum Mechanics, Atomic and Molecular physics
Course Code:	PHY- C 5.6
CO 1:	Transition from classical to quantum mechanics different examples.
CO 2:	Schrödinger equation its design and learning its possibilities to explain various sub atomic processes. Difference between atomic and molecular spectra, study of molecular spectra and understanding structure of a molecule.
CO 3:	Learning structure of atom in different layers through various atomic spectral methods and analysis.
Course Name:	Physics Lab-VI
Course Code:	PHY-P5.6
CO 1:	Spectral analysis for structure of atoms
CO 2:	Study of quantum nature of radiation through Photo cell, ionization and LED experiments.
CO 3:	Charge to mass ratio of electron to study its fundamental nature.
Sixth Semester	
Course Name:	Physics-VII

Paper Title:	Statistical physics &Solid-state physics
Course Code:	PHY-C 6.7
CO 1:	The students will enliven the various statistics as applied to atomic systems at different temperatures.
CO 2:	The reasons for behavior of metals with unique features, the free electron theory and related aspects. The basics of Nano materials.
CO 3:	The Science of semiconductors and superconductors.
CO 4:	X-ray as a tool in understanding atomic structure.
Course Name:	Physics Lab-VII
Course Code:	PHY-P6.7
CO 1:	Analyzing X Ray photographs for structural analysis of unit cells.
CO 2:	Study of energy gap, Fermi energy through LDR solar cells and other methods to understand structural aspects of semiconductors and metals.
CO 3:	Transistor as a tool.
Course Name:	Physics-VIII
Paper Title:	Astrophysics, Atmospheric physics & Nuclear physics
Course Code:	PHY-C 6.8:
CO 1:	Basic astrophysical aspects of stars luminosity, radius, pressure, temperature and other aspects. Understanding of distribution of stars based on physical properties with the help of H R Diagram, Edward Pickering chart. Finally, evolution of stars – Life cycle from Main sequence to red giant - white dwarfs – neutron stars –black holes.
CO 2:	Structure and dynamics of atmosphere around earth.
CO 3:	Concepts of radioactivity and understanding different processes of nature.
CO 4:	Concept – structure – and nature of nucleus. Different processes of nucleus and understanding nature.
Course Name:	Physics Lab-VIII
Course Code:	PHY-P6.8
CO 1:	Understanding stars by analyzing their physical properties. Understanding stellar measurement methods –parallax.
CO 2:	Operational amplifiers its application as various filters.
CO 3:	GM counter as a tool in studying various aspects of radiation/nuclear radiation and application.

Department of Zoology

Program specific outcomes

PS01: Understand the nature, unicellular to multicellular organisms and basic concepts of cell biology, genetics, taxonomy, physiology, ecology and applied Zoology.

PS02: Analyze the relationships among animals, plants and microbes.

PS03: Perform procedures as per laboratory standards in the areas of Taxonomy, Physiology, Ecology, Cell biology, Genetics, Applied Zoology, Clinical science, tools and techniques of Zoology.

PS04: Acquire the knowledge in Toxicology, Entomology, Nematology Sericulture, Biochemistry, Fish biology, Animal biotechnology, Immunology and research methodology.

PS05: Understand the applications of biological sciences in Apiculture, Aquaculture, Agriculture and Medicine.

PS06: Gains knowledge about research methodologies, effective communication and skills of problem solving methods.

PS07: Understand the biodiversity and to apply the knowledge to conserve the nature.

Develop need based industry focused skills to lead quality and successful life in the society.

PS08: Contributes the knowledge for Nation building.

Course Outcome

First Semester

Course Name:	Zoology-I
Paper Title:	Non-Chordata Part-I
Course Code:	ZOO-C1
CO 1:	Enable to describe general taxonomic rules on classification of animals
CO 2:	Able to Classify the phyla from Protozoa to Annelida with examples.
CO 3:	Understand the Occurrence causes, symptoms, mode of transmission and preventive measures of protozoan and Platyhelminthes parasites.
CO 4:	Understand the life history of parasites like plasmodium.
CO 5:	Able to understand the economic importance of phyla from Protozoa to Annelida forms
CO 6:	Enable understand the vermiculture and vermicomposting
CO 7:	Enable to describe the ecological and parasitic adaptations protozoans to annelidans.
CO 8:	Gain knowledge about the corals and their formation.

Course Name:	Zoology Lab-I
Course Code:	ZOO-P1
CO 1:	Enable to understand the externals and internals structures of protozoans, sponges, coelenterates and annelids
CO 2:	Able to understand the digestive , reproductive nervous , larval stages and mouth parts of liver fluke, round worms, leech, earthworms
CO 3:	Understand the Economic zoology and viva voice.

Second Semester

Course Name:	Zoology-II
Paper Title:	Non-Chodata Part-I
Course Code:	ZOO-C2
CO 1:	Enable to understand the general taxonomic rules on classification of animals especially higher invertebrates. Classify the phyla from arthropoda to echinodermata with examples
CO 2:	Knowledge about the minor phyla and larval forms of echinodermata.
CO 3:	Enable to understand type study and serial appendages of Prawn
CO 4:	Able to describe the cephalization, integument significance
CO 5:	Enable to understand the trophi and sense in insects like mosquitos, cockroaches, housefly and butterfly.
CO 6:	To know the apiculture and prawn culture
CO 7:	Understand the different systems study of Unio and foot modification in phylum Mollusca.
CO 8:	To know the social organization in insects and role of insects in agriculture
Course Name:	Zoology Lab-II
Course Code:	ZOO-P2
CO 1:	Understand the externals and internals structures of arthropoda to Mollusca and echinodermata phyla.
CO 2:	To know the mouth parts of mosquitos, cockroaches, housefly and butterfly.
CO 3:	Able to understand the shell pattern of molluscans. Economic zoology and viva voice about higher invertebrates.
Third Semester	
Course Name:	Zoology-III
Paper Title:	Chordata
Course Code:	ZOO-C3
CO 1:	Understand the general characters and classification protochordates, Pisces, Amphibia, Reptile, Aves and Mammals.
CO 2:	Enable to know the origin, significance and classification of vertebrates
CO 3:	To know the externals of Balanoglossus, coelomic divisions, tornaria larva and significance.
CO 4:	Able to Understand Amphioxus internal systems, Ascidia externals, and retrogressive metamorphosis and classification and general characters of Agnatha.
CO 5:	Enable to understand Sense organs in fishes, study of Latimeria, accessory respiratory organs, migration of fishes,, fisheries, fishes processing, preservation and importance.
CO 6:	Able to analyze the metamorphosis and parental care neoteny, paedogenes is, and adaptation in Amphibia.
CO 7:	Able to understand Adaptation in reptiles, venom types, anti-venom first-Aid, study of Sphenodon and economic of reptiles.

CO 8:	Understand the flight adaptation, fowl farming, migration of birds, economic importance of birds, adaptation in mammals, dentition in mammals and adaptation in mammals.
Course Name:	Zoology Lab-III
Course Code:	ZOO-P3
CO 1:	Able to understand the externals of protochordates, Cyclostomates, Pisces, Amphibians, Reptiles and Aves
CO 2:	Enable to understand the circulatory and nervous systems of shark
CO 3:	Enable to understand about skeletal system of frog and birds.
Fourth Semester	
Course Name:	Zoology-IV
Paper Title:	Comparative Anatomy, Human Anatomy And Histology
Course Code:	ZOO-C4
CO 1:	Enable to understand comparative anatomy of vertebrates from shark to mammals.
CO 2:	Enable to know evolutionary trends in hearts, aortic arches, respiratory systems, excretory systems and brains in vertebrates.
CO 3:	Enable to understand the unique characters of human.
CO 4:	Enable to understand human skeleton
CO 5:	Enable to understand the gross anatomy of circulatory system, respiratory system, excretory system, brain and spinal cord, eye and ear and reproductive systems in human.
CO 6:	Enable to understand the Histological structure of Mammalian organs-Tongue, Stomach, Small Intestine, liver and Pancreas,
CO 7:	Enable to understand the Histological structure of Mammalian organs-, Testis, Ovary, Pituitary, and Adrenal gland.
CO 8:	Gain the knowledge about Histochemistry - Stains/Dyes Types, preparation and application
Course Name:	Zoology Lab-IV
Course Code:	ZOO-P4
CO 1:	Enable to understand comparative anatomy of vertebrates,
CO 2:	Able to understand the human skeleton. Describe the Histological details of mammalian organs
CO 3:	Enable to understand the Histochemistry, disorders of eye and ear, diagnostic tools, and therapeutic interventions like, angioplasty, bypass surgery, dialysis, lithotripsy, laser technology and biopsy.
Fifth Semester	
Course Name:	Zoology-V
Paper Title:	Genetics, Bio-technology and Research Methodology
Course Code:	ZOO-C5.5
CO 1:	Enable to understand the heredity and environment, Mendel principle, and classic examples.
CO 2:	Able to gain the knowledge about the genes interactions, epistasis and

	multiple alleles,
CO 3:	Enable to understand Application of linkage, crossing over, sex-linked, genetic sex determination and gynandromorphs and freemartins.
CO 4:	Enable to understand the human karyotyping, chromosomal aberrations, in born errors of metabolism, gene concept, eugenics and genetic counseling.
CO 5:	Able describe the genetic engineering tools, and gene therapy.
CO 6:	Enable to understand the applications of biotechnology and environmental biotechnology, beneficial and harmful effects of biotechnology.
CO 7:	Enable to understand the research problems, research design, and samples collections
CO 8:	Enable to understand the statistical analysis of data and report writing.
Course Name:	Zoology Lab-V
Course Code:	ZOO-P5.5
CO 1:	Enable to understandthe genetic problems in relation to Mendel's laws, inheritance and Drosophila genetic.
CO 2:	Enable to Identification of blood groups in man , buccal smear preparation and DNA extraction
CO 3:	Enable to understand Solving problems related to statistical analysis.
Course Name:	Zoology-VI
Paper Title:	Cell Biology, Immunology & Ecology
Course Code:	ZOO-C5.6
CO 1:	Enable to understand the microscopy, principles of light, phase contrast and electron microscope.
CO 2:	Enable to understand the ultra-structure and functions of plasma membrane and Singer and Nicolson model.
CO 3:	Able to gain knowledge on cell-cell interaction, surface markers, cell fractioning and application of centrifugation.
CO 4:	Enable to understand the parthenogenesis and its types with examples.
CO 5:	Enable to understand the monoclonal and polyclonal antibodies, T and B lymphocytes, secondary immunity and immunization.
CO 6:	Able to understand the properties of cancer cells, carcinogens, and structural variation of cancers cells. Describe the AIDS, And organ transplantation.
CO 7:	Enable to understand the habitat, abiotic factor, energy flow, population ecology, and community ecology.
CO 8:	Enable to understand the biodiversity and its conservation, and wild life management.
Course Name:	Zoology Lab-VI
Course Code:	ZOO-P5.6
CO 1:	Enable to understandthe squash preparation for Mitosis and meiosis by using grasshopper testes and onion root tips.

CO 2:	Able to Explain the mounting of salivary glands, blood smear, haemocytometer, and micrometry. Staining of Mitochondria by using Janus B green stain.
CO 3:	Enable to understand the estimation of salinity, oxygen, organic matter, pH, and hardness of water samples.
Sixth Semester	
Course Name:	Zoology-VII
Paper Title:	Developmental Biology, Ethology & Organic Evolution
Course Code:	ZOO-C6.7
CO 1:	Enable to understand the types of theories of development, types of cleavage, regulative, mosaic, determinate and indeterminate types of eggs
CO 2:	Enable to understand the comparative developmental biology of fate maps, blastula, gastrula in Amphioxus, frog and chick.
CO 3:	Enable to understand cell lineage, significance of cleidoic eggs, role of organizers and transplantation experiment
CO 4:	Enable to gain knowledge about the human reproductive cycles, placenta, types, and histological and morphological type of placenta.
CO 5:	Enable to analyse infertility and infertility control in humans.
CO 6:	Enable to understand the animal behavior, learning, imprinting, habituation, animal communication and social organization in primates.
CO 7:	Describe the theories of evolution, Hardy Weinberg law, evidence of evolution
CO 8:	Enable to understand the paleontological evidences, zoo-geographical evidence of evolution and evolution of man and horse.
Course Name:	Zoology Lab-VII
Course Code:	ZOO-P6.7
CO 1:	Enable to understand of structure of different stages of chick embryology, mammalian embryology and histology placenta.
CO 2:	Enable to understand behaviour of paramecium and earthworm by T-maze experiment.
CO 3:	Able to understand homologous organs, and analogous organs for organic evolution
Course Name:	Zoology-VIII
Paper Title:	Animal Physiology & Nutritional Biology
Course Code:	ZOO-C6.8
CO 1:	Enable to understand the homeostasis, neural and hormonal regulation of digestive secretion and common gastrointestinal disorders and role of microorganism in digestion of ruminants and termites.
CO 2:	Able to understand the circulatory related disorders
CO 3:	Enable to understand the respiratory system, transport of gases, and disorders.
CO 4:	Describe excretion, types, ionic and water balance in teleosts, Eels, Turtle, Camel and Man.
CO 5:	Enable to understand osmoregulation, and muscle contraction

CO 6:	Enable to understand physiology of vision, hearing and olfaction and neuro endocrine regulation.
CO 7:	Enable to understand micro and macro nutrients,
CO 8:	Able to understande types and food, composition of food,
Course Name:	Zoology Lab-VIII
Course Code:	ZOO-P6.8
CO 1:	Enable to understand to determine the glucose, sucrose, starch, proteins, ammonia, urea and uric acid
CO 2:	Enable to understandthe estimation of temperature on heartbeat of Unio, oxygen consumption by crab, salt gain and salt loss in crab,
CO 3:	Enable to understandMicro preparation of slides, staining and determination moisture content in food and estimation of vitamins like A, C and D
Course Name:	Environmental Science
Course Code:	EVS
CO 1:	Enable to understand the scope , importance and need for public awareness about EVS
CO 2:	Enable to understand the forest, water, mineral and energy resources.
CO 3:	Able to understand the biodiversity and its conservation
CO 4:	Enable to understandthe causes , effects and control measures with one case study for air pollution, water pollution, soil pollution, noise pollution, radioactive pollution
CO 5:	Enable to analyse sustainable development and urban related problems
CO 6:	Enable to understand water conservation and rain water harvesting.
CO 7:	Enable to understand on watershed and solid waste management
CO 8:	Enable to understand the global warming, acid rain, ozone layer, nuclear accidents, and environmental protection acts.

Indian Constitution & Human Rights , Value Education

Course Outcome

Course Name :	Indian Constitution & Human Rights
Course Code:	IC
CO 1:	Students come to know the Administration as well as judiciary system, and aware about their Rights and duties.
CO 2:	Students will get the knowledge about importance of human rights and right to information privileges.
CO 3:	Able to understand and know the way to handle their legal problems.
Course Name :	Value Education
Course Code:	VE
CO 1:	Students come to know the importance of values in their life.
CO 2:	Students get the knowledge about the social ethics and environment awareness
CO 3:	Students become able to handle the problem of their life.

