Programme Educational Objectives

Within 3-5 years of education, graduates of MCA programme of CSIBER institute will be able to:

- ➢ **PEO 1:** Design and develop quality software using emerging technologies as per industry standards
- ➢ **PEO 2:** Exhibit life long learning capabilities with concern to drastic changes in emerging technologies.
- ➢ **PEO 3:** Exhibit successful professional career by providing software solutions for complex problems in a time-bound manner.
- ➢ **PEO 4:** Adopt themselves to the constantly evolving technology by peer reviewing, by working collaboratively and developing expertise in emerging fields.

MSc (CS) Programme Specific Outcomes

- ➢ **PSO1.** Demonstrate knowledge about computer science concepts and solutions effectively and professionally
- ➢ **PSO2.** Use and application of computing knowledge to produce effective designs and solutions for   problem under consideration.
- ➢ **PSO3.** Use of modern software development tools, systems, and platforms effectively and efficiently.
- ➢ **PSO1.** Demonstrate knowledge about computer science concepts and solutions effectively and professionally
- ➢ **PSO2.** Use and application of computing knowledge to produce effective designs and solutions for   problem under consideration.
- ➢ **PSO3.** Use of modern software development tools, systems, and platforms effectively and efficiently.

MSc (CS) Programme Outcomes (PO)

- ➢ **PO1** : Provide Sound theoretical knowledge to understand computer science concepts.
- ➢ **PO2** : Analyze the given problem to get clear idea about what should be done and prepare alternatives solutions for the given problem.

- PO3: Design and develop complete solution using computer system to solve the given problem.
- PO4: use modern tools to design and develop the solution and verify and validate the solution.
- PO5 : Develop ability to work in a team as a responsible member and/or leader in a diversified team.
- PO6 : Inculcate lifelong learning ability to learn and understand new methods, techniques and tools for solving complex problems.
- PO7 : Develop research attitude to contribute new concepts, ideas, tools, techniques and methods to the field of computer science.

Semester	I	Total Credit	4
Course Code	CC101	Credit Pattern	L-48, T-12, P-0
Course Title	COMPUTER ORGANIZATION AND ARCHITECTURE		
Course Objectives			
1	To feature a strong emphasis on the fundamentals underlying digital circuit design		
2	To build problem-solving skills required for digital circuit design		
3.	To explore computer design components like Boolean Algebra, Combinational, Sequential Circuit Design, Memory and CPU Organization, Input Output Processing		
Course Outcomes: The students will able to			
1.	Build a combinational circuit by simplifying Boolean function using K-map or Boolean Algebra postulates (Applying)		
2.	Demonstrate the building up of Sequential logic from basic gates and flipflops (Understanding)		
3.	Comprehend the design of various functional units of digital computers (Understanding)		
4.	Explain basic structure and functioning of operating system		
5.	Solve problems related to process management and synchronization		
6.	Compare and Contrast different CPU scheduling techniques, memory management techniques		
7.	Demonstrate the cause, effect related to deadlocks.		

Semester	I	Total Credit	4
Course Code	CC 102	Credit Pattern	L-48, T-12, P-0
Course Title	Software Engineering And Project Management		
Course Objectives			
1	To learn and understand the principles of Software Engineering.		
2	To Learn and understand Software Development Life Cycle.		
3.	To apply Design and Testing principles to S/W project development.		
4.	To introduce the tasks and concepts in project management.		
5.	To find out various metrics and its usage.		
Course Outcomes: The students will able to			

1.	Identify and Summarize Software Engineering concepts.
2.	Choose appropriate model for software development.
3.	Construct a model for Software under consideration.
4.	Decide a technique for managing the project.
5.	Solve the problem of the user using Software Engineering Principles.

Semester	I	Total Credit	4
Course Code	AEC101 -A	**Credit Pattern**	**L-48, T-12, P-0**
Course Title	DESIGN AND ANALYSIS OF ALGORITHM		

Course Objectives	
1	To provide a solid foundation in algorithm design and analysis.
2	Become familiar with fundamental data structures and with the manner in which these data structures can best be implemented; become accustomed to the description of algorithms in both functional and procedural styles.
3	To develop problem solving abilities using mathematical theories.
4	To apply algorithmic strategies while solving problems. Also expected to understand find out the time complexity of the algorithm.
5	To study the important algorithmic design paradigms and methods of analysis.

Course Outcomes: After successful completion of the course, the students would be able to	
1.	Learn good principles of algorithm design;
2.	To analyze worst-case running times of algorithms using asymptotic analysis.
3.	Describe the Divide-and-Conquer, Bound and Branch-programming, greedy paradigm and explain when an algorithmic design situation calls for it.
4.	Explain the major graph algorithms and their analyses. Employ graphs to model problems.

Semester	I	Total Credit	4
Course Code	CC 104	**Credit Pattern**	**L-45, T-8, P-7**
Course Title	**OBJECT ORIENTED PROGRAMMING WITH C++**		
Course Objectives			

1	This subject introduces and explains the concepts like classes, constructors, destructors, inheritance, overloading, polymorphism and stream I/O operation.
2	Chapters have a practical orientation, with example programs in all sections to start practicing what is being explained right away.

Course Outcomes: The students will able to	
1.	To write C++ programs using object oriented language features
2.	Utilize Object Oriented Programming concepts to design C++ programs.
3.	Develop industrial-strength, high-performance computer applications.

Semester	I	Total Credit	4
Course Code	CC 105	Credit Pattern	L-45, T-8, P-7
Course Title		Web Design and Development	
Course Objectives			
1	To teach the basic internet concepts and train them to develop internet applications.		
2	Knowledge of the new JavaScript APIs.		
3.	To introduce various tools for web services.		
4	To introduce PHP and MySQL and its usages		
Course Outcomes: The students will able to			
1.	Design and develop internet applications.		
2.	Do JavaScript APIs.		
3.	Use various tools for web services.		
4.	Design and develop web application using PHP and MySQL		

Semester	I		Total Credit	2
Course Code	AECC-I		Credit Pattern	L-26, T-4
Course Title	Professional Communication Skills			
Course Objectives				
1	To familiarize learners with the mechanics of communication.			
2	To develop students written expression of thought and build connections between content areas			
3	To develop students oral communication skills by a variety of communication activities, from informal discussion to formal presentation			

Semester	II	Total Credit	2
Course Code	AEC- II	Credit Pattern	L-24, T-6, P-0
Course Title	Problem Solving and Logical Skills		
Course Objectives			
1	To provide a solid foundation in algorithm design and analysis.		

2	Become familiar with fundamental data structures and with the manner in which these data structures can best be implemented; become accustomed to the description of algorithms in both functional and procedural styles.
3	To develop problem solving abilities using mathematical theories.
4	To study different logical strategies and techniques
5	To study the important algorithmic design paradigms and methods of analysis.

Course Outcomes: After successful completion of the course, the students would be able to	
1.	Reflect upon their own capacity for problem-solving.
2.	Apply algorithmic thinking to understand, define and solve problems
3.	Apply logical skills while solving problems.
4.	Demonstrate problem solving logical inference skills

Semester	I	Total Credit	2
Course Code	AEC- I	Credit Pattern	L-30, T-00, P-00
Course Title	C. Social Ethics		

Course Objectives	
1	To study basic moral ethics of students
2	To check out learners social ethics learnt by students

Course Outcomes	
After completion of this course the student will be able to:	
1	Analyse basic moral and social ethics of lerners
2	Assess social, moral , ethical standards practices of learners

Semester	I	Total Credit	2
Course Code	AEC-I	Credit Pattern	L-25, T-05
Course Title	STRESS MANAGEMENT		

Course Objectives	
1	To understand the scientific foundations, nature and symptoms of stress
2	To assess risk factors of stress
3.	To develop resilience to stress
4	To apply stress management techniques

Course Outcomes: The students will able to	
1.	Comprehend the scientific foundations, nature and symptoms of stress
2.	Discuss risk factors of stress
3.	Develop resilience to stress
4.	Apply stress management techniques

Semester	I	Total Credit	4
Course Code	DSE I (A)	Credit Pattern	L-48, T-12, P-0
Course Title	THEORETICAL COMPUTER SCIENCE (TCS)		

Course Objectives	
1	To comprehend languages, grammars, and computation models
2	To learn regular languages and context free languages which are crucial to understand how compilers and programming languages are built
3.	To discuss the concepts of Push Down Automata and Turing Machines
4	To strengthen rigorous mathematical reasoning skills

Course Outcomes: The students will able to	
1.	Understand how compilers and programming languages are built
2.	Demonstrate knowledge of basic mathematical models of computation and describe how they relate to formal languages.
3.	Apply knowledge of computing and mathematics appropriate to the discipline

Semester	I	Total Credit	4
Course Code	DSE-I (B)	Credit Pattern	L-48, T-12, P-0
Course Title	Cloud Computing		

Course Objectives	
1	To understand the concept of Virtualization and design of cloud Services
2	To understand cloud computing technologies.
3.	To introduce the broad perceptive of cloud architecture and model To learn to design the trusted cloud Computing system
4.	To introduce the fundamental ideas of the cloud computing model and its origin
5.	To introduce the broad perceptive of cloud architecture and model To learn to design the trusted cloud Computing system
6.	To understand the features of cloud simulator

Course Outcomes: The students will able to	
1.	Identify the architecture and delivery models of cloud computing.
2.	Identify infrastructure.
3.	Understand security, privacy and interoperability issues.
4.	select suitable cloud player
5.	apply suitable virtualization concept
6.	implement cloud services and set a private cloud

Semester	I	Total Credit	4
Course Code	DSE 101 - C	Credit Pattern	L-48, T-12, P-0
Course Title	Information Security and Cryptography		

Course Objectives

1	To understand basics of Information security and Cryptography.
2	To be able to secure a message over insecure channel by various means.
2	To learn about how to maintain the Confidentiality, Integrity and Availability of a data.

Course Outcomes: After successful completion of the course, the students would be able to	
1.	Provide security of the data over the network.
2.	Do research in the emerging areas of cryptography and Information security

Semester	**III**	**Total Credit**	**4**
Course Code	**GE**	**Credit Pattern**	**L-44, T- 08, P-08**
Course Title	**Basics of Indian Economy**		

Course Outcomes: Students will be able to	
1	Identify the main issues in Indian economic development
2	Critically analyse the Indian economic policy environment

Semester	**II**	**Total Credit**	**4**
Course Code	CC 201	**Credit Pattern**	**L-48, T-12, P-0**
Course Title	**Operating System**		

Course Objectives	
1	Learn objective and functions of modern operating systems.
2	To get in-depth knowledge of process management and inter-process communication
3	Learn the different memory management and input-output techniques.

Course Outcomes: After successful completion of the course, the students would be able to	
1.	Capable of explaining the basic structure and functioning of operating system.
2.	Able to point the problems related to process management and synchronization as well as is able to apply learned methods to solve basic problems.
3.	Capable of explaining the cause and effect related to deadlocks and is able to analyze them related to common circumstances in operating systems.

4.	Able to explain the basics of memory management, the use of virtual memory in modern Operating systems as well as the structure of the most common file-systems.

Semester	II	Total Credit	4
Course Code	CC 202	Credit Pattern	L-45, T-8, P-7
Course Title	Linux Administration and Programming		

Course Objectives	
1	To familiarize the student with Linux operating system environment and basic shell script programming..
2	To introduce various system calls, Communication utilities in Linux and the Linux administration.
Course Outcomes : The Students will able to	
1	Write shell script programs in Linux
2	Use various Filters and editors
3	Create and manager file access permissions
4	Use various system calls
5	Administration of Linux system

Semester	II	Total Credit	4
Course Code	CC 303	Credit Pattern	L-45, T-7, P-8
Course Title	Java Programming		

Course Objectives	
1	To provide a student with the solid foundation of the syntax and semantics of java Programming and object-oriented concepts in Java.
2	To familiarize the student to the application of Exception Handling mechanism in Java application
3	To familiarize the student to the development of console-based and event handling applications in Java
4	To demonstrate use of multi threaded application development in Java.
5	To demonstrate interfacing Java application with various Database Management Systems.
Course Outcomes: Students will be able to;	
1	To design console based application, accessing command-line arguments and parameterized applets.
2	To design java applications employing streams and exception handling mechanism in Java.
3	To explore different types of JDBC drivers for connecting and accessing data from different backend database management systems.
4	To design and develop networked applications in both connection-oriented and connectionless architecture in Java.
5	To design and implement event handling applications in Java using AWT and Swing.

II		Total Credit		4
Course Code	CC 203	Credit Pattern		L-48, T-0, P-12
Course Title		Data and File Structures		
Course Objectives				
1	To find out types and difference between primitive and non-primitive structures.			
2	To Design and apply appropriate data structures for solving computing problems.			
3.	To Understand and use various file structures.			
Course Outcomes: The students will able to				
1.	Differentiate between primitive and non-primitive structures.			
2.	Design and create appropriate data structures for solving computing problems.			
3.	Assess and develop new data structure if required.			
4.	Understand and use various file structures.			

Semester	II		Total Credit	2
Course Code	AECC-I		Credit Pattern	L-26, T-4
Course Title	Professional Communication Skills			
Course Objectives				
1	To familiarize learners with the mechanics of communication.			
2	To develop students written expression of thought and build connections between content areas			
3	To develop students oral communication skills by a variety of communication activities, from informal discussion to formal presentation			

Semester	II	Total Credit	2
Course Code	GE I A	Credit Pattern	L-22, T-8
Course Title	FUNDAMENTALS OF MANAGEMENT		

Course Objectives	
1	To Understand the different concepts in Management.
2	To understand the different Functions of Management
Course Outcomes: Students will be able to;	
1.	Discuss management functions and how it can affect future managers
2.	Analyze and attain elementary level of skills in management process and functions: planning, organizing, directing and controlling.

Semester	II	Total Credit	2
Course Code	GE I B	Credit Pattern	L-23, T-07, P-0
Course Title	ENVIRONMENT AND DEVELOPMENT		

Course Objectives	
1	Understand the basics functional areas of Environment.
2	Define concepts of pollution, pollutants and natural resources
3	Explain historical development of struggle for Environmental protection

Course Outcomes: The students will able to	
1.	Differentiate biotic and abiotic components of ecosystem & able to understand concept of habitat, interactions in between different components & their Interrelationships.
2.	Develop ability of identification of local issues related with natural resources.
3.	Adopt various pollution control techniques.
4.	Able to know various environmental policies as well as National & International Organizations involved.

Semester	II	Total Credit	2
Course Code	GE I C	Credit Pattern	L-20, T-5, P-5
Course Title	INDIAN SOCIAL PROBLEMS AND SOCIAL SERVICES		

Course Outcomes: Students will be able to	
1	Implement various social welfare services provided by GO's & NGO's
2	Asses the socio- economic factors and their implications of beneficiaries

Semester	II	Total Credit	4
Course Code	GE I D	Credit Pattern	L-44, T-08, P-08
Course Title	Principles of Economics		

Course Outcomes: Students will be able to	
1	Understand the micro variables and approach for microeconomic issues
2	Identify the macro variables in any economy

Semester	II	Total Credit	4
Course Code	DSE 301(B)	Credit Pattern	L-48, T-12, P-0
Course Title	Computer Graphics		
Course Objectives			
1.	To understand the basics and elements of computer graphics.		
2.	To understand the basic idea of scan conversion techniques and various algorithms in graphic primitive generation.		
3.	To learn basic of 2D and 3D transformation and its techniques .		
4.	To understand and learn the concepts of viewing transformations, clipping, projections and rendering with algorithms		
Course Outcomes: After successful completion of the course, the students would be able to			
1.	Present various aspects of computer graphics		
2.	Design and develop graphics programming.		
3.	Build understanding and problem-solving skills required for graphics applications		

Semester - I		Total Credit	4	
Course Code	CC 303	Credit Pattern		L-48, T-12, P-0
Course Title		Ethical Hacking		
Course Objectives				
1		To familiarize the student with ethical hacking concepts and tools		
2		To introduce various ethical hacking skills and types of attacks		

3.	To know how protect systems from hacking threats

Course Outcomes: The students will able to

1.	Will be able to identify the type of hacking attack
2.	Will be acquainted with ethical hacking skills
3.	Will be able to use various ethical hacking tools

Semester	III	Total Credit	4
Course Code	CC 301	Credit Pattern	L-48, T-12, P-0
Course Title	Computer Networks		

Course Objectives	
1	To learn technology behind network architecture with layered organization.
2	Gain in depth knowledge of network core and network edge
3	Uniform coverage of principles, architecture, practical insights of networks

Course Outcomes	
After completion of this course the student will be able to:	
1	Present conceptual aspects of network applications such as web, file transfer, e-mail, and remote access, file sharing.
2	Understand various protocols such as HTTP, SMTP,POP3,IMAP,FTP, DNS, DHCP and the basic structure of IP V4 , IP V6 Address
3	Understand routing concept and working of routing protocols such as RIP, OSPF and BGP
4	Understand layered architecture of TCP/IP model and design network applications
5	Build understanding and problem-solving skills required for network design
6	Understanding of wireless networks and protocols

Semester	II	Total Credit	4
Course Code	CC 302	Credit Pattern	L-48, T-12, P-0
Course Title	Artificial Intelligence		

Course Objectives	
1	To endow with various disciplines of artificial intelligence and its applications
2	To explore knowledge representation techniques in AI.
3	To demonstrate machine learning through artificial neural networks
4	To explain handling uncertainty using fuzzy logic.

Course Outcomes: The students will able to	
1.	Apply problem solving by intelligent search approach.
2.	Represent knowledge using AI knowledge representation techniques.
3.	Design machine learning solution to real life problems.
4	Derive solutions for problems with uncertainty using fuzzy theory.

Semester	III	Total Credit	4
Course Code	CC-303	Credit Pattern	L-48, T-6, P-6
Course Title	DATA WARE HOUSING AND DATA MINING		

Course Objectives	
1	To provide students with basic concepts of data warehouse and data mining.
2	To develop abilities to solve real time problem by applying appropriate data mining algorithm.
2	To make students acquaint to different tools and techniques used for Knowledge Discovery in Databases.

Course Outcomes: The students will able to	
1.	Develop acquaintance with the tools and techniques used for Knowledge Discovery in Databases.
2.	Discover interesting patterns from large amounts of data to analyze and extract patterns to solve problems
3.	Evaluate and select appropriate data-mining algorithms
4.	Apply, and interpret and report the output appropriately

Semester	III	Total Credit	4
Course Code	CC 304	Credit Pattern	L-45, T-8, P-7
Course Title	.Net Programming		

Course Objectives	
1	To explore the knowledge on different types of applications of .net
2	To know about the design methodologies with concentration on object oriented concepts.
3.	Giving the students a complete knowledge on .net framework and .net environment.
4	To provide the knowledge on developing internet applications and how to design and implement complete applications over the web using web form and MVC technology.
	Giving the students a quick review on web servers, client side programming, server side programming and various web technologies.

Course Outcomes: The students will able to	
1.	The syntax and semantics of C# and procedural programming including variable definitions, arithmetic and Boolean expressions, control structures, methods, subroutines, arrays, and References.
2.	Event-based programming and GUI design
3.	An idea of what objects are how to design programs using object-oriented design
	Database management using ADO.net and entity framework technologies

Semester	III	Total Credit	4
Course Code	CC-305	Credit Pattern	L-48, T-12, P-0
Course Title	Mobile Computing		

Course Objectives	
1	To introduce challenges in app development for thin clients.

2	To provide acquaitance with popular Android editors such as Eclipse/Android Studio.
3	To familiarize the students about android stack, android sdk, application life cycle, and basic components.
4	To introduce Android's APIs for data storage, retrieval, user preferences, files, databases, and content providers
5	5. To introduce persistent data storage using SQLite
Course Outcomes: Students will be able to;	
1	Build android apps in Eclipse/Android Studio.
2	Design and develop useful Android applications using activities, intent and manifest
3	Design and develop useful Android applications Utilizing the power of background services, threads, and notifications
4	Develop applications for data storage and retrieval.
5	Sharing data between applications using Content Provider.

SEM-III	AEC- II (A)	Deployment Skills	Credits - 2	Contact Hours - 30
COURSE OBJECTIVES				

COURSE OBJECTIVES
1. To introduce various technologies to manage continuous change
2. To make them aware about continuous change management process
3. To handle configuration management in effective manner.

COURSE OUTCOMES

After Completion of this course students will be able to
1. Apply various technologies for software deployment.
2. Compare different technologies for change management.
3. Decide the technology to use for deployment process.
4. Prepare a strategy for project deployment.

Semester	III	Total Credit	4
Course Code	AEC- II	Credit Pattern	L-24, T-06, P-00
Course Title	b. Open Source Platform		

Course Objectives	
1	Introduce open source paradigm.
2	Comprehend the problems with traditional commercial software.
3	Understand concepts, strategies, and methodologies related to open source software development.
4	Understand the business, economy, societal and intellectual property issues of open source software.
5	Be familiar with open source software products and development tools currently available on the market.
Course Outcomes	
After completion of this course the student will be able to:	
1	Leaned the need of open source technology, open source development model, application of open sources, aspects of open source movement
2	The students will be aware about the problems with traditional commercial software.

Semester	III	Total Credit	4
Course Code	AEC-II	Credit Pattern	L-24, T-06, P-00
Course Title	c. Work Ethics		

Course Objectives	
1	To explain explain concept of ethics.
2	To explain characteristics of Good Work Ethics
3	To discuss different ethical theories
4	To discuss OHS and related Acts

Course Outcomes	
After completion of this course the student will be able to:	
1	Develop strong work ethics
2	Apply critical thinking skills.
3	Apply conflict resolution strategies and skills
4	Follow ethical principals
5	Follow OHS Acts

Semester	III	Total Credit	2
Course Code	AEC- II	Credit Pattern	L-30,
Course Title	d. Organization Behavior		

Course Objectives	
1	To help the students to develop cognizance of the importance of human behaviour.
2	To enable students to describe how people behave under different conditions and understand why people behave as they do.
3.	To provide the students to analyse specific strategic human resources demands for future action.
4.	To enable students to synthesize related information and evaluate options for the most logical and optimal solution such that they would be able to predict and control human behaviour and improve results.

Course Outcomes: The students will able to	
1.	CO1: Demonstrate the applicability of the concept of organizational behavior to understand the behavior of people in the organization.
2.	CO2: Demonstrate the applicability of analyzing the complexities associated with management of individual behavior in the organization.
3.	CO3: Analyze the complexities associated with management of the group behavior in the organization.
4.	CO4: Demonstrate how the organizational behavior can integrate in understanding the motivation (why) behind behavior of people in the organization.

Semester	III	Total Credit	4
Course Code	DSE-III (A)	Credit Pattern	L-45, T-7, P-8

Course Title	Advanced Java
Course Objectives	
1	To introduce a student to an entirely a new way to build distributed, desktop and mobile applications.
2	To provide a student with the solid foundation of the syntax and semantics of java Programming as well as application architecture, data access technology geared to facilitate the development of distributed systems.
3	To familiarize the student with the development of N-tier web-based applications
4	To inculcate the skills among student for developing application in par with industry standards.
5	To familiarize student with MVC architecture and OR mapping tools
Course Outcomes: Students will be able to;	
1	To design two-tier, three-tier and scalable N-tier web applications.
2	To design java applications employing various middle tier technologies.
3	To design applications by integrating struts2 and hibernate technologies.
4	To explore dependency injection and aspect oriented programming features of Spring framework.
5	To design applications by integrating struts2, hibernate and spring technologies.

Semester	III	Total Credit		4
Course Code	DSE-III (C)	Credit Pattern		L-48, T-12, P-0
Course Title	Cryptanalysis			
Course Objectives				
1	To understand basics of Cryptanalysis and Cryptography.			
2	To be able to secure a message over insecure channel by various means.			
2	To learn about how to "crack" enciphered messages without knowing, at the outset, the enciphering keys.			
Course Outcomes: After successful completion of the course, the students would be able to				
1.	Provide security of the data over the network.			
2.	Do research in the emerging areas of cryptanalysis and Information security			

Semester		Total Credit	2
Course Code		Credit Pattern	L-22, T-4, P-4
Course Title	Entrepreneurship Development		

Course Objectives	
1	To understand the concept and importance of entrepreneurship
2	To develop entrepreneurial skills and abilities among the students to run business efficiently and effectively
3	To provide insights to the students on entrepreneurship opportunities

4	To familiarize students with the support system provided by the government for entrepreneurship.

Course Outcomes: Students will be able to	
1	Explain Basic Concept of Entrepreneurship and link the Entrepreneurship with Economic Development.
2	Develop the Business Plan for any kind of new enterprise.
3	Discuss Role of Central and State Government in Entrepreneurship Development.

Semester	III	Total Credit	2
Course Code	GE 301 E	Credit Pattern	L-23, T-07, P-0
Course Title	DISASTER MANAGEMENT		

Course Objectives	
1	Understand the concept and impact of disasters.
2	Describe the causes, effects and control measures of disasters.

Course Outcomes: After completion of this course students will have capacity to	
1.	Recognize the various global and regional environmental concerns/hazards due to natural causes and/or human activities, and the impact of these on various forms of life .
2.	Obtain and communicate information on risks, relief needs and lessons learned from earlier disasters in order to formulate strategies for mitigation in future scenarios
3.	Describe and evaluate the environmental, social, economic, legal and organizational aspects influencing vulnerabilities and capacities to face disasters.
4.	Relate theoretically and practically in the processes of disaster management (disaster risk reduction, response, and recovery)

Semester	III	Total Credit	2
Course Code	GE	Credit Pattern	L-20, T-5, P-5
Course Title	CORPORATE SOCIAL RESPONSIBILITY		

Course Objectives	
1	To understand the scope and complexity of corporate social responsibility.
2	To gain knowledge of the impact of CSR implementation on societies
3	To acquire skills to frame and design CSR policies and practices appropriate to the Indian workplace.

Course Outcomes: Students will be able to	
1	know the Corporate Social Responsibility of different sector.
2	use the acquired skill for proper sustainable Corporate Social responsibility.

Semester	III	Total Credit	4
Course Code	GE	Credit Pattern	L-44, T- 08, P-08
Course Title	Basics of Indian Economy		

Course Outcomes: Students will be able to	
1	Identify the main issues in Indian economic development
2	Critically analyses the Indian economic policy environment