

SEMESTER-II

INDIAN / FOREIGN LANGUAGE (Communicative English)		SEMESTER	II
Course Code	BCA251	CIE Marks	50
Teaching Hours/Week (L: P: SDA)	2:0:0	SEE Marks	50
Total Hours of Pedagogy	25	Total Marks	100
Credits	02	Exam Hours	01
Type of the Course SEE	MCQ		
COURSE OBJECTIVES:			
<ul style="list-style-type: none"> • To know about Fundamentals of Communicative English and Communication Skills in general. • To train to identify the nuances of phonetics, intonation and enhance pronunciation skills for better Communication skills. • To impart basic English grammar and essentials of important language skills. • To enhance with English vocabulary and language proficiency for better communication skills. • To learn about Techniques of Information Transfer through presentation. 			
MODULE-1			
Introduction to Communicative English: Communicative English, Fundamentals of Communicative English, Process of Communication, Barriers to Effective Communicative English, Different styles and levels in Communicative English. Interpersonal and Intrapersonal Communication Skills.			
MODULE-2			
Introduction to Phonetics: Phonetic Transcription, English Pronunciation, Pronunciation Guidelines to consonants and vowels, Sounds Mispronounced, Silent and Non silent Letters, Syllables and Structure. Word Accent, Stress Shift and Intonation, Spelling Rules and Words often Misspelt. Common Errors in Pronunciation.			
MODULE-3			
Basic English Communicative Grammar and Vocabulary PART - I: Grammar: Basic English Grammar and Parts of Speech, Articles and Preposition. Question Tags, One Word Substitutes, Strong and Weak forms of words, Introduction to Vocabulary, All Types of Vocabulary – Exercises on it.			
MODULE-4			
Basic English Communicative Grammar and Vocabulary PART - II: Words formation - Prefixes and Suffixes, Contractions and Abbreviations. Word Pairs (Minimal Pairs) – Exercises, Tense and Types of tenses, The Sequence of Tenses (Rules in use of Tenses) and Exercises on it.			
MODULE-5			
Communication Skills for Employment :Information Transfer: Oral Presentation and its Practice. Difference between Extempore/Public Speaking, Communication Guidelines. Mother Tongue Influence (MTI), Various Techniques for Neutralization of Mother Tongue Influence. Reading and Listening Comprehensions – Exercises.			
Teaching Methodology:			
<ol style="list-style-type: none"> 1. Chalk and talk method / PowerPoint Presentation. 2. Contents related activities (Activity-based discussions) 3. Quizzes and Group discussions 			
COURSE OUTCOMES:			
CO 1. Understand and apply the Fundamentals of Communication Skills in their communication skills.			
CO 2. Identify the nuances of phonetics, intonation and enhance pronunciation skills.			

CO 3. To impart basic English grammar and essentials of language skills as per present requirement.

CO 4. Understand and use all types of English vocabulary and language proficiency.

CO 5. Adopt the Techniques of Information Transfer through presentation.

Suggested Learning Resources:

Books

1. Communication Skills by Sanjay Kumar & Pushp Lata, Oxford University Press India Pvt Ltd - 2019.
2. A Textbook of English Language Communication Skills, (ISBN-978-81-955465-2-7), Published by Infinite Learning Solutions, Bengaluru - 2022.

Reference Books:

1. Technical Communication by Gajendra Singh Chauhan and Et al, (ISBN-978-93-5350-050-4), Cengage learning India Pvt Limited [Latest Revised Edition] - 2019.
2. English for Engineers by N.P.Sudharshana and C.Savitha, Cambridge University Press – 2018.
3. English Language Communication Skills – Lab Manual cum Workbook, Cengage learning India Pvt Limited [Latest Revised Edition] – (ISBN-978-93-86668-45-5), 2019.
4. A Course in Technical English – D Praveen Sam, KN Shoba, Cambridge University Press – 2020.
5. Practical English Usage by Michael Swan, Oxford University Press – 2016

INTRODUCTION TO SCRIPTING LANGUAGES		SEMESTER	I
Course Code	BCA252	CIE Marks	50
Teaching Hours/Week (L: P: SDA)	2:0:0	SEE Marks	50
Total Hours of Pedagogy	25-30	Total Marks	100
Credits	02	Exam Hours	03
Type of Course SEE	Theory type		
COURSE OBJECTIVES:			
<ul style="list-style-type: none"> To educate students about basic scripting languages. To provide knowledge about adding interactive elements to websites. To educate students to create dynamically updating content, control multimedia. 			
MODULE-1			
Introduction to HTML and Web Technologies: Overview of Web Technologies: Web browsers, web servers, HTTP, and the basics of the World Wide Web (WWW), What is HTML?: Purpose and role of HTML in web development, Structure of an HTML Document: <!DOCTYPE html>, <html>, <head>, <body> tags, Basic HTML Tags: <html>, <head>, <title>, <body>, <h1> to <h6>, <p>, , <hr>, Hello HTML5 , Loose Syntax Returns, Embracing the Reality of Web Markup, Presentational Markup Removed and Redefined, HTML5 Document Structure Changes, Adding Semantics, HTML5's Open Media Effort.			
MODULE-2			
HTML Tables and Forms and CSS: Table Elements, Formatting a Data Table: Borders, Alignment, and Padding, HTML5 Form Changes, Emerging Elements and Attributes to Support Web Applications, Introduction, CSS Overview, CSS Rules, Example with Type Selectors and the Universal Selector, CSS Syntax and Style, Class Selectors, ID Selectors, span and div Elements, Cascading, style Attribute, style Container, External CSS Files.			
MODULE-3			
Introduction to JavaScript: Functions, DOM, Forms: CSS Properties, Color Properties, RGB Values for Color, Opacity Values for Color, HSL and HSLA Values for Color, Font Properties, line-height Property, Text Properties, Border Properties, Element Box, padding Property, margin Property, History of JavaScript , Hello World Web Page, Buttons, Functions, Variables, Identifiers, Document Object Model.			
MODULE-4			
Introduction to Angular JS: Forms and How They're Processed: Client-Side Versus Server-Side, form Element, Controls, Text Control, Accessing a Form's Control Values, reset and focus Methods, Introduction to Angular JS , Directives, Expressions, Directives, Controllers, Filters.			
MODULE-5			
Introduction to JQuery , Exploring the Fundamentals of jQuery, Loading and Using jQuery, Using the jQuery Library files, selectors, events, exploring jQuery effects.			
Teaching Methodology: Chalk and talk method / PowerPoint Presentation			
COURSE OUTCOMES:			
CO 1. Develop HTML5 documents and adding various semantic markup tags. CO 2. Construct Tables and analyze various attributes, values and types of CSS. CO 3. Implement core constructs and develop HTML5 documents using JavaScript. CO 4. AngularJS directives, expressions, controllers, and filters for building dynamic web applications. CO 5. Explain the use of JQuery concepts.			

Suggested Learning Resources:

Books

1. HTML & CSS: Design and Build Websites by Jon Duckett (Free Chapters Available Online)
2. HTML5 for Web Designers by Jeremy Keith (Free PDF Available)
3. HTML & CSS: The Complete Reference Thomas A. Powell, Fifth Edition, Tata McGraw Hill
4. WEB PROGRAMMING with HTML5, CSS and JavaScript, John Dean, Jones & Bartlett Learning, First Edition
5. AngularJS: Up and Running by Shyam Seshadri and Brad Green (Free PDF Available)
6. Learning jQuery by Jonathan Chaffer and Karl Swedberg (Free PDF Available)

DISCRETE MATHEMATICAL STRUCTURE		SEMESTER	II
Course Code	BCA203	CIE Marks	50
Teaching Hours/Week (L: P: SDA)	3:0:0	SEE Marks	50
Total Hours of Pedagogy	40	Total Marks	100
Credits	03	Exam Hours	03
Type of the Course SEE	Theory		
COURSE OBJECTIVES:			
<ul style="list-style-type: none"> The objective of this course is to better understanding on the concepts of Sets, Relations and Functions, Laplace transformations and multiple integrals. 			
MODULE-1			
PROPOSITIONAL LOGICS: Propositional Logic, Applications of Propositional Logic, Propositional Equivalences, Predicates and Quantifiers, Nested Quantifiers, Rules of Inferences, Introduction to Proofs, Proof methods and Strategy.			
MODULE-2			
SETS, RELATIONS AND FUNCTIONS: Operations on sets, power set, Venn diagram, Cartesian product, Relations and their properties, Closures of Relations, Equivalence Relations, Partial Orderings. Functions, Types of Functions, Inverse and Compositions, The Graphs of Functions.			
MODULE-3			
INDUCTION AND RECURSION: Mathematical Induction, Strong Induction and Well Ordering, Recursive Definitions and Structural Induction, Recursive Algorithms, Program Correctness.			
MODULE-4			
COUNTING: The Basics of Counting, The Pigeonhole Principle, Permutations and Combinations, Binomial Coefficients and Identities.			
MODULE-5			
GRAPHS: Graphs and Graph Models, Graph Terminology and Special Types of Graphs, Representing Graphs and Graph Isomorphism, Connectivity, Euler and Hamilton Paths, Shortest-Path Problems, Planar Graphs, Graph Coloring.			
Teaching Methodology: Chalk and talk method / PowerPoint Presentation.			
COURSE OUTCOMES:			
<p>CO 1. Understand and Apply Propositional Logic: Grasp the fundamentals of propositional logic, including logical connectives, equivalences, and proof methods.</p> <p>CO 2. Analyze Sets and Relations: Perform operations on sets, visualize relationships using Venn diagrams, and explore various types of relations and functions.</p> <p>CO 3. Develop skills in mathematical induction, recursive definitions, and algorithms, ensuring program correctness.</p> <p>CO 4. Apply counting principles, permutations, combinations, and binomial coefficients to solve combinatorial problems.</p> <p>CO 5. Study graph models, terminology, connectivity, and algorithms for paths, planarity, and coloring.</p>			
Suggested Learning Resources:			
Books			
<ol style="list-style-type: none"> Discrete mathematics and its applications / Kenneth H. Rosen, Monmouth University (and formerly AT&T Laboratories). 			

FUNDAMENTALS OF DATA STRUCTURE		SEMESTER	II
Course Code	BCA204	CIE Marks	50
Teaching Hours/Week (L: P: SDA)	3:0:0	SEE Marks	50
Total Hours of Pedagogy	40	Total Marks	100
Credits	03	Exam Hours	03
Type of the Course SEE	Theory		
COURSE OBJECTIVES:			
<ul style="list-style-type: none"> • Fundamentals of data structures • Basic concepts related to stacks, queues, linked list • Fundamentals of trees and binary tree traversals 			
MODULE-1			
INTRODUCTION TO DATA STRUCTURES: Definition; Types of data structures - Primitive & Non primitive, Linear and Non-linear; Operations on data structures. Dynamic memory allocation: Static & Dynamic memory allocation; Memory allocation and de-allocation functions - malloc, calloc, realloc and free. Algorithm Specification, Performance Analysis, Performance Measurement Recursion: Definition; Types of recursions; Recursion Technique Examples - GCD, Factorial, Binomial coefficient nCr , Towers of Hanoi; Comparison between iterative and recursive functions.			
MODULE-2			
ARRAYS: Operations on arrays; Arrays as abstract data types (ADT); Representation of Linear Arrays in memory. Traversing linear arrays; Inserting and deleting elements; Sorting – Selection sort, Bubble sort, Quick sort, Merge sort, Insertion sort; Searching - Sequential Search, Binary search; Iterative and Recursive searching;			
MODULE-3			
STACKS: Basic Concepts – Definition and Representation of stacks; Operations on stacks; Applications of stacks; Infix, postfix and prefix notations; Conversion from infix to postfix using stack; Evaluation of postfix expression using stack; Application of stack in function calls. QUEUES: Basic Concepts – Definition and Representation of queues; Types of queues - Simple queues, Circular queues, Double ended queues, Priority queues; Operations on Simple queues.			
MODULE-4			
LINKED LIST: Basic Concepts – Definition and Representation of linked list, Types of linked lists - Singly linked list, doubly linked list, Circular linked list, doubly circular linked list; Representation of Linked list in Memory; Operations on Singly linked lists – Traversing, Searching, Insertion, Deletion;			
MODULE-5			
TREES: Definition; Tree terminologies –node, root node, parent node, ancestors of a node, siblings, terminal & non-terminal nodes, degree of a node, level, edge, path, depth. BINARY TREE: Type of binary trees - strict binary tree, complete binary tree, binary search tree and heap tree; Array representation of binary tree. Traversal of binary tree; preorder, inorder and postorder traversal.			
Teaching Methodology: Chalk and talk method / PowerPoint Presentation.			
COURSE OUTCOMES:			
CO 1. Know the types of data structure. Describe the implementation of dynamic memory allocation and recursion.			
CO 2. Describe the implementation of various methods of searching and sorting elements using array.			
CO 3. Describe the concepts and implement stack and queue. Understand basic operations involved, types and applications.			

CO 4. Describe basic concepts of linked list. Understand types of linked list and implement basic operations on singly linked list.

CO 5. Describe the concepts of tree data structure and traversal techniques on binary tree.

Suggested Learning Resources:

Books

1. Ellis Horowitz and Sartaj Sahni: Fundamentals of Data Structures
2. Tanenbaum: Data structures using C (Pearson Education)
3. Kamathane: Introduction to Data structures (Pearson Education)
4. Y. Kanitkar: Data Structures Using C (BPB)
5. Kottur: Data Structure Using C
6. Padma Reddy: Data Structure Using C
7. Sudipa Mukherjee: Data Structures using C – 1000 Problems and Solutions (McGraw Hill Education, 2007))

UNIX AND SHELL SCRIPTING		SEMESTER	II
Course Code	BCA205	CIE Marks	50
Teaching Hours/Week (L: P: SDA)	3:0:0	SEE Marks	50
Total Hours of Pedagogy	40	Total Marks	100
Credits	03	Exam Hours	03
Type of the Course SEE	Theory		
COURSE OBJECTIVES:			
<ul style="list-style-type: none"> Understand UNIX history, architecture, and basic commands. Gain proficiency in navigating the UNIX environment, managing files and directories, and using essential commands for system interaction. Learn to write and execute shell scripts, manage file permissions, and handle system processes. Utilize shell scripting for automation, data entry, and process management. 			
MODULE-1			
Introduction of UNIX - Introduction, History, Architecture, Experience the Unix environment, Basic commands ls, cat, cal, date, calendar, who, printf, tty, sty, uname, passwd, echo, tput, and bc			
MODULE-2			
UNIX File System- The file, what's in a filename? The parent-child relationship, pwd, the Home directory, absolute pathnames, using absolute pathnames for a command, cd, mkdir, rmdir, Relative pathnames, The UNIX file system.			
MODULE-3			
Basic File Attributes - ls -l, the -d option, File Permissions, chmod, Security and File Permission, users and groups, security level, changing permission, user masks, changing ownership and group, File Attributes, More file attributes: hard link, symbolic link, umask, find.			
MODULE-4			
Introduction to the Shell Scripting - Introduction to Shell Scripting, Shell Scripts, read, Command Line Arguments, Exit Status of a Command, The Logical Operators && and , exit, if, and case conditions, expr, sleep and wait, while, until, for, \$, @, redirection. The here document, set, trap, Sample Validation and Data Entry Scripts			
MODULE-5			
Introduction to UNIX System process: Mechanism of process creation. Parent and child process. The ps command with its options. Executing a command at a specified point of time: at command. Executing a command periodically: cron command and the crontab file Signals			
Teaching Methodology: Chalk and talk method / PowerPoint Presentation.			
COURSE OUTCOMES:			
CO 1. To help the students to understand effective use of Unix concepts, commands and terminology.			
CO 2. Understand the UNIX file system.			
CO 3. Understand UNIX command syntax and semantics and identify, access, and evaluate file permissions.			
CO 4. Ability to read and understand specifications, scripts and programs.			
CO 5. Analyze Facility with UNIX Process			

Suggested Learning Resources:

Books

1. Unix Concepts & Applications 4th Edition, Sumitabha Das, Tata McGraw Hill References:
2. Unix Shell Programming, Yashwant Kanetkar
3. Introduction to UNIX by M G Venkatesh MurthyJava- The Complete Reference, 7th Edition, By Herbert Schildt– McGraw Hill publication.

FUNDAMENTALS OF FINTECH		SEMESTER	II
Course Code	BCA286	CIE Marks	50
Teaching Hours/Week (L: P: SDA)	2:0:0	SEE Marks	50
Total Hours of Pedagogy	25-30	Total Marks	100
Credits	02	Exam Hours	01
Type of the Course SEE	MCQ		
COURSE OBJECTIVES:			
<ul style="list-style-type: none"> • Understand evolution of FinTech and role in digital payments and mobile banking • Understand blockchain and crypto currency and identify lending and crowd funding platforms • Understand Robo-advisory and their role in wealth management. 			
MODULE-1			
Introduction to Financial Technology (FinTech): Overview of Financial Technology (History and evolution of FinTech); Role and importance fintech in modern finance ; Traditional vs digital financial system; Key FinTech sectors (Payments, Lending, Blockchain, Robo-Advisors, InsurTech, RegTech, etc.)			
MODULE-2			
Module – 2: Digital Payments and Mobile Banking: Introduction to digital payments: Types, methods, and platforms ; Mobile payment systems (UPI, PayPal, Google Pay, etc.) ; Cryptography in payment systems Security issues in digital payments ; Regulatory frameworks and compliance (e.g., GDPR, PCI-DS)			
MODULE-3			
Module – 3: Blockchain Technology and Crypto currencies: Introduction to Blockchain technology: Concepts and structure ; Blockchain use cases in financial services ; Crypto currencies: Bitcoin, Ethereum, and Altcoins; Crypto currency exchanges and wallets Smart contracts and Decentralized Finance (DeFi) Regulatory challenges and future trends			
MODULE-4			
Module – 4: Lending and Crowd funding Platforms: Peer-to-peer (P2P) lending platforms; Crowdfunding models (Equity-based, Reward-based, etc.); Alternative credit scoring models; Risk assessment and mitigation in lending ; Role of Artificial Intelligence (AI) and Machine Learning (ML) in lending			
MODULE-5			
Module – 5: Robo-Advisory and Wealth Management: Introduction to Robo-advisors and their role in wealth management; Algorithmic trading and investment strategies; Risk management and portfolio diversification using technology; Regulatory environment for Robo-advisory services; Comparison of traditional vs digital wealth management; Future of FinTech: Trends, challenges, and opportunities			
Teaching Methodology: Chalk and talk method / PowerPoint Presentation.			
COURSE OUTCOMES:			
<p>CO 1. Understanding the key sectors and evolution of FinTech in modern finance.</p> <p>CO 2. Gaining knowledge of digital payment systems, security, and regulatory compliance.</p> <p>CO 3. Understanding blockchain applications in finance and the role of cryptocurrencies.</p> <p>CO 4. Learning about alternative lending models and risk assessment in digital lending.</p> <p>CO 5. Exploring Robo-advisors and their impact on wealth management and investment strategies.</p>			

Suggested Learning Resources:**Books**

1. FinTech: The New DNA of Financial Services” by Pranay Gupta and T. Mand
2. Mastering Blockchain: Unlocking the Power of Cryptocurrencies, Smart Contracts, and Decentralized Applications” by Imran Bashir
3. Digital Bank: Strategies to Launch or Become a Digital Bank” by Chris Skinne

UNIX AND SHELL SCRIPTING LABORATORY		SEMESTER	I
Course Code	BCAL207	CIE Marks	50
Teaching Hours/Week (L: P: SDA)	1:2:0	SEE Marks	50
Total Hours of Pedagogy	14 Sessions	Total Marks	100
Credits	02	Exam Hours	03
Type of the Course SEE	Practical		
COURSE OBJECTIVES:			
<ul style="list-style-type: none"> • Learn to write and execute shell scripts for basic decision-making, loops, string manipulation, and file operations. • Apply shell scripting to real-world tasks, such as sorting data, generating sequences, and managing file systems efficiently. 			
PART-A			
<ol style="list-style-type: none"> 1. Write a shell script to check positive or negative number. 2. Write a shell script to find largest of three numbers. 3. Write a shell script to generate mark-sheet of a student by reading five subject marks, calculate and display total marks, percentage and Class obtained by the student. 4. Write a shell script to accept a natural number and check for prime or not. 5. Write a shell script which will generate first n Fibonacci numbers. 6. Write a shell script to find the factorial of a given number. 			
PART-B			
<ol style="list-style-type: none"> 1. Write a shell script to read n numbers as command arguments & sort them in ascending order. 2. Write a shell script to display all executable files, directories and zero sized files from current directory. 3. Write a shell script to check entered string is palindrome or not. 4. Write a shell script to reverse a given string. 5. Demonstration of shell programming using filters (including grep, egrep, fgrep) 6. Write a shell script to count the number of lines, words, and characters in a file. 			
Teaching Methodology: Chalk and talk method / PowerPoint Presentation			
COURSE OUTCOMES:			
<p>CO 1. Create scripts for checking conditions, like positive/negative numbers and finding the largest number.</p> <p>CO 2. Write scripts for generating Fibonacci sequences, identifying prime number and calculating factorials.</p> <p>CO 3. Perform string operations, including palindrome checks and reversals.</p> <p>CO 4. Develop scripts for identifying file types and counting file contents.</p> <p>CO 5. Create scripts for sorting numbers and handling student mark sheets.</p>			

DATA STRUCTURE USING C LABORATORY		SEMESTER	I
Course Code	BCAL208	CIE Marks	50
Teaching Hours/Week (L: P: SDA)	1:2:0	SEE Marks	50
Total Hours of Pedagogy	14 Sessions	Total Marks	100
Credits	02	Exam Hours	03
Type of Course SEE	Practical		
COURSE OBJECTIVES:			
<ul style="list-style-type: none"> • Equip students with the skills to implement and manipulate fundamental data structures like arrays, stacks, queues, and linked lists. • Enable students to solve complex problems using recursion, matrix operations, and tree traversal techniques. 			
PART-A			
<ol style="list-style-type: none"> 1. Write a program to implement and demonstrate the following operations on an array: Insertion, Deletion, Traversing, and Searching. 2. Write a recursive program to solve Towers of Hanoi problem for n disks. 3. Write a recursive program to calculate the Greatest Common Divisor (GCD) of two numbers. 4. Write a recursive program to calculate the factorial of a number. 5. Write a program to implement linear searching technique on an array. 6. Write a program to implement binary searching technique on an array. 7. Write a program to implement a stack using an array. Include the operations Push, Pop, and display the current stack. 			
PART-B			
<ol style="list-style-type: none"> 1. Write a program to implement bubble sort technique. 2. Write a program to implement selection sort technique. 3. Write a program to implement insertion sort technique. 4. Write a program to convert an infix expression to a postfix expression using stack. 5. Write a program to implement an ordinary queue using an array. Include the operations Enqueue, Dequeue, and Display. 6. Write a program to create a singly linked list and perform the following operations: Insertion at the beginning, Deletion from the beginning, and Traversal of the linked list. 7. Write a program to represent a binary tree and implement Preorder, Inorder, and Postorder traversal methods. 			
Teaching Methodology: Chalk and talk method / PowerPoint Presentation			
COURSE OUTCOMES:			
CO 1. Develop programs to perform insertion, deletion, traversing, searching and sorting operations on arrays.			
CO 2. Solve problems like Towers of Hanoi, factorial and GCD calculation using recursive programming.			
CO 3. Implement and manipulate stacks and queues using array			
CO 4. Represent linked lists and implement insertion and deletion of elements.			
CO 5. Represent binary trees and implement traversal methods such as Preorder, Inorder, and Postorder.			

CONSTITUTION OF INDIA		SEMESTER	II
Course Code	BCA209	CIE Marks	50
Teaching Hours/Week (L: P: SDA)	0:2:0	SEE Marks	50
Total Hours of Pedagogy	25	Total Marks	100
Credits	1	Exam Hours	01
Type of Course SEE	MCQ		
COURSE OBJECTIVES:			
<ul style="list-style-type: none"> • To know about the basic structure of Indian Constitution. • To know the Fundamental Rights (FR's), DPSP's and Fundamental Duties (FD's) of our constitution. • To know about our Union Government, political structure & codes, procedures. • To know the State Executive & Elections system of India. • To learn the Amendments and Emergency Provisions, other important provisions given by the constitution. 			
MODULE-1			
Indian Constitution: Necessity of the Constitution, Societies before and after the Constitution adoption. Introduction to the Indian constitution, Making of the Constitution, Role of the Constituent Assembly.			
MODULE-2			
Salient features of India Constitution. Preamble of Indian Constitution & Key concepts of the Preamble. Fundamental Rights (FR's) and its Restriction and limitations in different Complex Situations. building.			
MODULE-3			
Directive Principles of State Policy (DPSP's) and its present relevance in Indian society. Fundamental Duties and its Scope and significance in Nation, Union Executive : Parliamentary System, Union Executive – President, Prime Minister, Union Cabinet.			
MODULE-4			
Parliament - LS and RS, Parliamentary Committees, Important Parliamentary Terminologies. Judicial System of India, Supreme Court of India and other Courts, Judicial Reviews and Judicial Activism			
MODULE-5			
State Executive and Governor, CM, State Cabinet, Legislature - VS & VP, Election Commission, Elections & Electoral Process. Amendment to Constitution, and Important Constitutional Amendments till today. Emergency Provisions.			
Teaching Methodology:			
<ol style="list-style-type: none"> 1. Chalk and talk method / PowerPoint Presentation 2. Contents related activities (Activity-based discussions) 3. Quizzes and Group discussions 			
COURSE OUTCOMES:			
CO 1. Analyse the basic structure of Indian Constitution.			
CO 2. Remember their Fundamental Rights, DPSP's and Fundamental Duties (FD's) of our constitution.			
CO 3. Know about our Union Government, political structure & codes, procedures.			
CO 4. Understand our State Executive & Elections system of India.			
CO 5. Remember the Amendments and Emergency Provisions, other important provisions given by the constitution.			

Suggested Learning Resources:**Textbook:**

1. “Constitution of India” (for Competitive Exams) - Published by Naidhruva Edutech Learning Solutions, Bengaluru. – 2022.
2. “Introduction to the Constitution of India”, (Students Edition.) by Durga Das Basu (DD Basu): Prentice –Hall, 2008.

Reference Books:

1. “Constitution of India, Professional Ethics and Human Rights” by Shubham Singles, Charles E. Haries, and et al: published by Cengage Learning India, Latest Edition – 2019.
2. “The Constitution of India” by Merunandan K B: published by Merugu Publication, Second Edition, Bengaluru.
3. “Samvidhana Odu” - for Students & Youths by Justice HN Nagamohan Dhas, Sahayana, kerekon.
4. M.Govindarajan, S.Natarajan, V.S.Senthilkumar, “Engineering Ethics”, Prentice –Hall, 2004.