



Academic Year: 2025-26

Skill Enhancement Course-I

S.No.	Sem & Section	Title	Date (From -to)
1.	III SEM CSE-A,B,C,D & E	Python Programming	07/07/2025-01/11/2025

Skill Oriented Course-III

S.No.	Sem & Section	Title	Date (From -to)
1.	V SEM CSE-A,B,C & D	Full Stack Development-II	07/07/2025-01/11/2025

Skill Oriented Course-V

S.No.	Sem & Section	Title	Date (From -to)
1.	VII SEM CSE-A,B,C & D	Aptitude & Verbal	09/10/2025 - 17/10/2025

Vision: To evolve as a centre of academic and research excellence in the area of Computer Science and Engineering.

Mission: To utilize innovative learning methods for academic improvement.

To encourage higher studies and research to meet the futuristic requirements of Computer Science and Engineering.

To inculcate Ethics and Human values for developing students with good character.



Python Programming

Course Outcomes: After Successful completion of the Course, the student will be able to:

- | | |
|---|-------------|
| CO1: Illustrate basic concepts and control structures in python Programming. | (K3) |
| CO2: Demonstrate functions and packages. | (K3) |
| CO3: Construct python programs using structured data types. | (K3) |
| CO4: Develop programs on Files, Exception handling and OOPs Concepts. | (K3) |
| CO5: Construct programs for Data Analysis using Num Py and Pandas. | (K3) |

Course Contents

- Basics of Python Programming
- Control Flow Statements
- Functions, Strings and Lists
- Python Data Structures : Dictionaries, Tuples , and Sets
- Files and Object-Oriented Programming
- Introduction to Data Science



Full Stack Development-II

Course Outcomes: After Successful completion of the Course, the student will be able to:

- CO1:** Explain the key concepts of ExpressJS such as routing, HTTP methods, middleware, templating, and handling form data. **(K2)**
- CO2:** Apply ExpressJS to implement cookies, sessions, authentication, database operations, and RESTful APIs in server-side applications. **(K3)**
- CO3:** Develop ReactJS components using JSX, props, state, and styling to handle events and user interactions. **(K3)**
- CO4:** Analyse ReactJS techniques such as conditional rendering, forms, routing, hooks, and screen updates to manage dynamic content. **(K4)**
- CO5:** Apply MongoDB CRUD operations to create and manage databases, collections, and documents for full-stack applications. **(K3)**

Course Contents

- ExpressJS – Routing, HTTP Methods, Middleware, Templating, Form Data
- ExpressJS – Cookies, Sessions, Authentication, Database, RESTful APIs
- ReactJS – Render HTML, JSX, Components – function & Class, Props and States, Styles, Respond to Events
- ReactJS – Conditional Rendering, Rendering Lists, React Forms, React Router, Updating the Screen
- ReactJS – Hooks, Sharing data between Components, Applications – To-do list and Quiz
- MongoDB – Installation, Configuration, CRUD operations, Databases, Collections and Records



Aptitude & Verbal

Course Outcomes: After successful completion of the Course, the student will be able to:

- Apply logical and analytical thinking skills to solve quantitative aptitude problems commonly asked in placement and competitive examinations. [K3]
- Understand and apply basic mathematical concepts such as Time, Distance, Work, and related quantitative topics to real-world problem-solving scenarios. [K2]
- Analyze and solve logical reasoning questions including series, directions, coding-decoding, and statements-conclusions with accuracy and efficiency. [K2]
- Demonstrate proficiency in verbal ability through effective use of grammar, vocabulary, and reading comprehension for placement and interview readiness. [K3]
- Solve numerical and logical puzzles using appropriate reasoning and problem-solving techniques to enhance critical thinking abilities. [K3]

Course Contents

Quantitative Aptitude:

- Number System
- Percentages
- Profit and loss
- Ration proposition and Equations
- Mixtures and Allegations
- Ages
- Partnership
- Averages
- Time and Work
- Pipes and Cisterns
- Distance
- Permutations and Combinations
- Probability
- Data Interpretation
- Simple and Compound Interest
- 2D and 3D Mensuration

Logical Reasoning:

- Directions
- Clocks
- Calendar
- Blood Relations
- Number Series
- Letter Series
- Coding and Decoding
- Statements and Conclusions

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Verbal Ability:

- Articles
- Nouns
- Adjectives & Prepositions Rules
- Sentence Formation
- Verbs & SVA Rules
- Adverbs & Adjectives Rules
- Vocabulary & Idioms / Phrases
- Sentence Correction, Error Detection Rules & Approaches to Solve Questions
- Sentence Completion, Para Jumbles & Approaches to Solve Questions
- Reading Comprehension & Critical Reasoning (Speed Reading Techniques & Approaches)

Numerical Puzzle:

- Crypt Arithmetic Puzzles
- Arithmetic Operations Puzzles
- Equation-Based Logic Puzzles
- Mathematical Pattern Grids
- Data-Based Logical Puzzles