

Course 4. Advanced Web Technology

Sl. No.	Modules	Hours
1	Computer & Programming Concepts	40
2	Web Programming – I (HTML , CSS, Ajax)	60
3	Database Concepts	20
4	Web Programming – II (PHP, Java scripts)	80
5	Internet Terminologies	20
6	Management Development Program	60
7	Project	40
Total		320

Eligibility: Any Engineering /Science graduate with mathematics up to 10+2 level

Course Pre-requisites: Sound knowledge of Computing Fundamentals and Fundamentals of Programming.

Course Focus: The objective of this course is to provide the student with an expertise in Website development.

Detailed Syllabus

Computer & Programming Concepts (40 Hours)

- Fundamentals of Computers
- Uses of Computer, Hardware, Accessories,
- Interfaces and their functions, Computer hardware connectivity
- Primary and Secondary storage
- Input-output devices
- Software, types of software, Operating Systems
- Software used in Academic departments and other area.
- Computer language, Different types of Programming Languages
- Operating System
- Programming concepts
- Algorithm
- Flow charts
- Introduction to loops, functions

Web Programming – I (HTML, CSS, Ajax) (60 Hours)

- HTML 5.0 programming
- Overview of Internet and Web Pages
- Introduction to HTML Tags
- Introduction to Web Browser / Composer
- Introduction to HTML Editor
- CSS Introduction
- CSS Syntax
- CSS Id & Class
- CSS How To
- CSS Styling

- CSS Box Model
- CSS Summary
- Introduction to Ajax
- Web services and Ajax
- Ajax using HTML, CSS

Database Concepts (20 Hours)

- Database Concepts
- RDBMS Technologies
- Codd's Rules
- Normalization Techniques
- SQL and PL/SQL
- Overview of OORD (Oracle)
- Introduction SQL*Plus
- DDL, DML and DCL
- Tables, Indexes and Views

Web Programming – II (PHP, Java scripts) (80 Hours)

- Java Script Introduction
- JS output
- JS statement
- JS Comments
- JS Variable
- JS data types
- JS Switches, loops
- Introduction to PHP
- Working with arrays
- Functions
- Forms
- Handling date and Times
- Working with Files
- Working with database
- PHP and AJAX

Internet Terminologies (20 Hours)

- Web services
- Deployments of application on Internet
- Maintenance of application

Management Development Program

Introduction to communication, Barriers to communication, Kind of communication, Confidence building Non-verbal Communication, Fluency and vocabulary, Synonyms, Antonyms, Grammar, Noun Pronoun, Verb, Adjective, Preposition, Conjunction, Words of Idioms & phrases, Sentence Construction, Fill up the blanks, Pronunciation, Conversation practice, Polite Conversation, Greeting, Logical reasoning, General Aptitude, Writing: Covering letter, Resume, Email, Presentation Skill, group discussion, Interview skills, Mock interview

Project