



INFORMATION TECHNOLOGY
ENGINEERING

IT ENGINEERING SEM V

INTERNET PROGRAMMING

Programming & development

Course Curriculum



INTERNET PROGRAMMING SEM V

Module 1 : Web Programming Fundamentals

- Working of web browser
- HTTP protocol
- HTTPS
- DNS
- TLS
- XML introduction
- Json introduction
- DOM
- URL
- URI
- REST API

Module 2: Java Script



- Introduction to ES6
- Difference between ES5 and ES6
- Variables
- Condition
- Loops
- Functions
- Events
- Arrow functions
- CSS Styles using JavaScript
- DOM manipulation
- Classes and Inheritance
- Iterators and Generators
- Promise
- Client-server communication
- Fetch

Module 3: React Fundamentals

- Installation
- Installing libraries
- Folder and file structure
- Components
- Component lifecycle
- State and Props
- React Router and Single page applications
- UI design
- Forms
- Events
- Animations

Module 4: Advanced React

- Functional components- Refs
- Use effects
- Hooks
- Flow architecture
- Model-View-Controller framework
- Flux
- Bundling the application
- Web pack

Module 5: Node.js

- Environment setup
- First app
- Asynchronous programming
- Callback concept
- Event loops
- REPL
- Event emitter
- Networking module
- Buffers
- Streams
- File system
- Web module



Module 6: Express

- Introduction
- Express router
- REST API
- Generator
- Authentication
- Sessions
- Integrating with React

