

Gurukul Educational And Research Institute

SHIKSHA SANKUL, SAHASTRADHARA ROAD, NEARBY IT PARK,
DEHRADUN, UTTARAKHAND PIN CODE - 248013



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DIPLOMA IN FRONT END DEVELOPMENT

Duration: 1 Year (2 Semester)

Eligibility: 12th Pass / Basic Computer Knowledge Mode: Theory + Practical+ LiveProjects

Semester 1 – Foundations

Web Fundamentals

- Introduction to Internet & Websites
- How Websites Work
- Client vs Server
- Domain & Hosting
- Introduction to Git & GitHub

HTML5 (Structure of Website)

- Introduction to HTML
- Basic Tags
- Forms & Input Fields
- Tables
- Audio & Video Tags
- Semantic HTML
- SEO-Friendly Structure

Practical:

- Create Personal Profile Page
- Create Registration Form
- Multi-page Static Website

CSS3 (Design & Styling)

- Introduction to CSS
- Selectors
- Colors & Fonts
- Box Model
- Flexbox
- Grid Layout
- Responsive Design
- Media Queries

Practical:

- Design Landing Page

- Responsive Website Layout

JavaScript (Basic to Intermediate)

- Introduction to JavaScript
- Variables & Data Types
- Functions
- Loops
- Conditions
- DOM Manipulation
- Events Handling

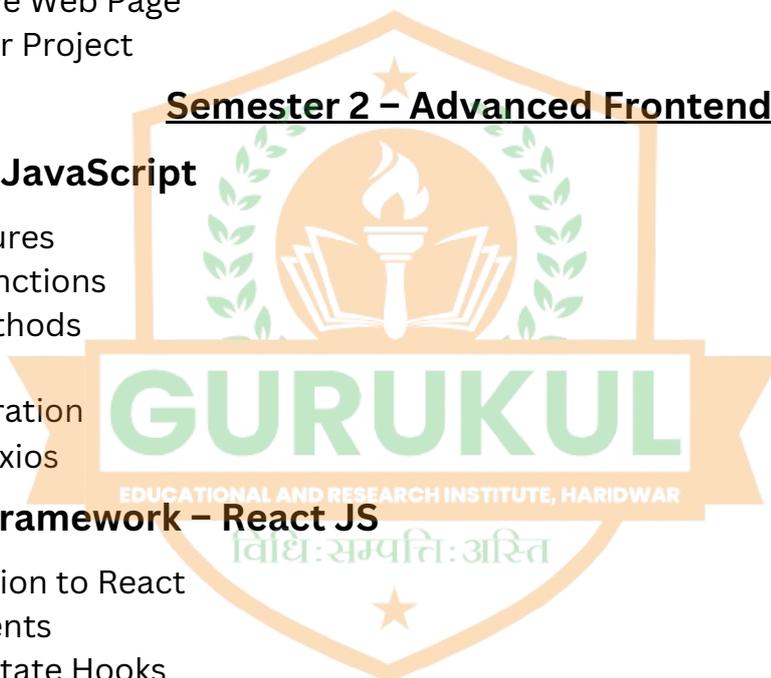
Practical:

- Form Validation
- Interactive Web Page
- Calculator Project

Semester 2 – Advanced Frontend

Advanced JavaScript

- ES6 Features
- Arrow Functions
- Array Methods
- JSON
- API Integration
- Fetch & Axios



Frontend Framework – React JS

- Introduction to React
- Components
- Props & State Hooks
- Routing
- Forms in React
- API Integration in React

Practical:

- Build To-Do App
- Build Blog Website
- Build E-commerce UI

UI/UX Basics

- UI Principles
- UX Concepts
- Wireframing
- Figma (Basic)
- Responsive Design Strategy

Version Control & Deployment

- Git Commands
- GitHub Project Upload
- Hosting Website (Netlify / Vercel)
- Deployment Process

Final Projects

- Portfolio Website
- Business Website React
- Based Web App
- Final Presentation & Viva

Examination Pattern

- Theory – 100 Marks
- Practical – 100 Marks
- Project – 100 Marks
- Viva – 100 Marks

Career Opportunities

- Front End Developer
- Web Designer
- React Developer
- UI Developer
- Website Designer
- Freelance Web Developer

