Web/SW Development

Course Duration: 6 months

Qualification: open to all individuals interested in learning Web/SW Development.

Eligibility:

No prior programming experience required; open to all individuals interested in learning Web/SW Development.

Medium of Instruction:

English

Duration:

Minimum 6 months and Maximum 8 months

Programming Details:

The programming has been divided into 4 modules Consequently, there will be examinations at every end of module. For beginners it is first important to build command over programming concepts. in this course our goal is to help you to be confident with the coding fundamentals.

Curriculum: View Specialization: -

Module 1: Frontend Development

- Introduction to Web Development
- HTML Basics
- CSS Basics
- JavaScript Basics
- Responsive Design (Media Queries, Flexbox, Grid)
- Simple Frontend Project: Build a Responsive Website

Module 2: Backend Development (Beginner Level)

- Introduction to Backend Development

- Basics of Server & Database

- Node.js / Python Flask Basics

- Simple CRUD Operations

- Project: Build a Simple API (Read, Create, Update, Delete)

Module 3: Full Stack Integration

- Connecting Frontend to Backend (Simple API Call)

- Sending & Receiving Data

- Rendering API Data on Frontend

- Beginner Project: Small Full Stack App (Todo App / Notes App)

- Basic Deployment (Optional: GitHub Pages / Netlify / Heroku)

Module 4: Best Practices & Final Project

- Code Organization

- Clean Code & Simple Project Structure

- Beginner-Level Debugging & Testing

- Capstone Project: Build a Complete Beginner Full Stack Application