EDACY

Curriculum

FULL STACK ENGINEERING

WITH SOFT SKILLS



COURSE OVERVIEW

This comprehensive 12-week course is designed to equip you with both the technical and professional skills necessary to launch your career as a Full Stack Developer. The curriculum emphasizes practical learning, real-world projects, and collaboration to prepare you thoroughly for industry demands.

COURSES DESCRIPTION

You will be trained on modern web development technologies covering both front-end and back-end, including Angular, Node.js, Express, MongoDB, NestJS, and GraphQL. Alongside technical training, you'll gain critical professional skills such as Agile project management, effective communication, and teamwork.

LEARNING Objectives

TECHNICAL SKILLS:

By the end of this course, students will be able to:

- Develop dynamic web applications using Angular.
- Build robust backend services using Node.js and Express.
- Manage and utilize databases effectively with MongoDB.
- Implement CI/CD pipelines for seamless deployment.
- Conduct thorough automated testing and debugging.
- Create clear technical documentation.

LEARNING Objectives

SOFT SKILLS:

By the end of this course, students will be able to:

- Communicate technical information clearly and effectively to different audiences.
- Employ Agile and Scrum methodologies to manage projects collaboratively.
- Solve complex problems using systematic critical thinking.
- Present confidently and professionally in public speaking contexts.
- Effectively manage time and deadlines.

WEEKLY CURRICULUM BREAKDOWN



WEEK 1:

ANGULAR FUNDAMENTALS

- Setting up Angular projects
- Basic data binding
- Routing and navigation
- Enterprise work culture
- Project tools introduction (Slack, Google Drive)

WEEK 2 :

ADVANCED ANGULAR CONCEPTS

- Built-in directives and pipes
- Custom component creation
- Angular services
- Introduction to Design Thinking
- Empathy and user-centric design

WEEK 3 :

ANGULAR FORMS AND AGILE SCRUM

- Template-driven forms
- Reactive forms
- Form validation techniques
- Agile Scrum basics
- Collaborative project management

WEEK 4 :

NODE.JS INTRODUCTION

- Node.js architecture
- JavaScript event loop
- Writing asynchronous code
- Emotional intelligence basics
- Professional interactions and communication

WEEK 5 :

NODE.JS PACKAGE MANAGEMENT

- Using NPM effectively
- Package.json management
- Local vs. global packages
- Critical thinking in problem-solving
- Breaking down complex coding tasks

WEEK 6 :

ADVANCED Node.js And Express.js

- Building a web server
- Express middleware
- Request handling and routing
- Time management strategies
- Meeting project deadlines effectively

WEEK 7 :

MONGODB Database

- NoSQL database concepts
- MongoDB CRUD operations
- Querying databases
- Active listening skills
- Effective team communication

WEEK 8 :

ADVANCED Mongodb

- Mongoose fundamentals
- Building REST APIs
- Testing APIs with Postman
- Clear communication of technical concepts
- Professional presentations and documentation

WEEK 9 :

FRONT-END INTEGRATION WITH ANGULAR

- Developing CRUD pages
- User authentication and dashboards
- Admin modules and user roles
- Productivity techniques
- Discipline and rigor in projects

WEEK 10:

DEPLOYMENT AND GIT WORKFLOW

- Git version control basics
- Branching and Git workflows
- CI/CD introduction
- Deploying apps on Heroku
- Effective teamwork and conflict resolution

WEEK 11:

ADVANCED BACKEND WITH NESTJS

- NestJS framework basics
- Backend API development
- Module creation and routing
- Interview skills and job search strategies
- Portfolio development

WEEK 12 :

GRAPHQL AND MVP PRESENTATION

- GraphQL queries and mutations
- Integration with front-end applications
- MVP project preparation
- Public speaking techniques
- Confident project presentations

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