



IDM TECHPARK

GUIDE'S FOR PERFECT CAREER PATHWAY



Web Development Course Syllabus



N.S.D.C
National
Skill Development
Corporation



1

About Us

IDMTECHPARK global retail & corporate training solutions provider in Coimbatore, Erode, Trichy & Salem that offers a comprehensive range of training and placement services for both fresher's and professionals seeking new opportunities. The company commenced its IT training business in 2016. A pioneer in IT education, over the years, we have trained over 50k students. Idmtechpark has a wide range of courses, maintains education standards & provides placement assistance.

www.idmtechparkcoimbatore.com
www.idmtechparkerode.com

+91 9585305700

**2**

About IDMTECHpark Education Quality

IDMTECHPARK is managed and developed by industry specialists with more than 8 years of expertise in the field. IDMTECHPARK offers a staff of highly skilled professional trainers who deliver effective IT training in a friendly setting, concentrating on the needs of each individual to help them succeed in a demanding work world. In the book of career and success, our staff never leaves a page unturned.

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IDMTECHPARK's versatile instructor-led training class rooms and lower-class sizes enable people to engage more easily and absorb knowledge, resulting in remarkable results for both themselves and the organizations for which they work. Our training programmes are adaptable and customizable to ensure that each participant gets the most out of their time with us. IDMTECHPARK focuses in providing hands-on IT training in over 30 different courses.

- We teach in-demand courses
- We provide impactful learning material
- Our teachers are well-selected & trained
- We follow world-class teaching methods
- Our courses include E-Projects
- We conduct technical workshops
- Exams are held and based on Exams providing Certification
- Certificates are recognized the world over
- Our course timings are flexible



3

Our Recent Placement

Idmtechpark assists students in getting job placements on successful completion of their courses. Idmtechpark also provides recruitment assistance to organizations. Idmtechpark students are shortlisted based on the organization's requirement. To make students job-ready, Idmtechpark conducts workshops e.g. How to do Group Discussions, how to behave in a Personal Interview. From time to time, job fairs & campus recruitments are conducted. Workplace skills such as time management, making effective presentations and communication skills are also provided. All this helps students find appropriate jobs in the IT industry while also helping save companies recruitment costs.

Krishnaveni M

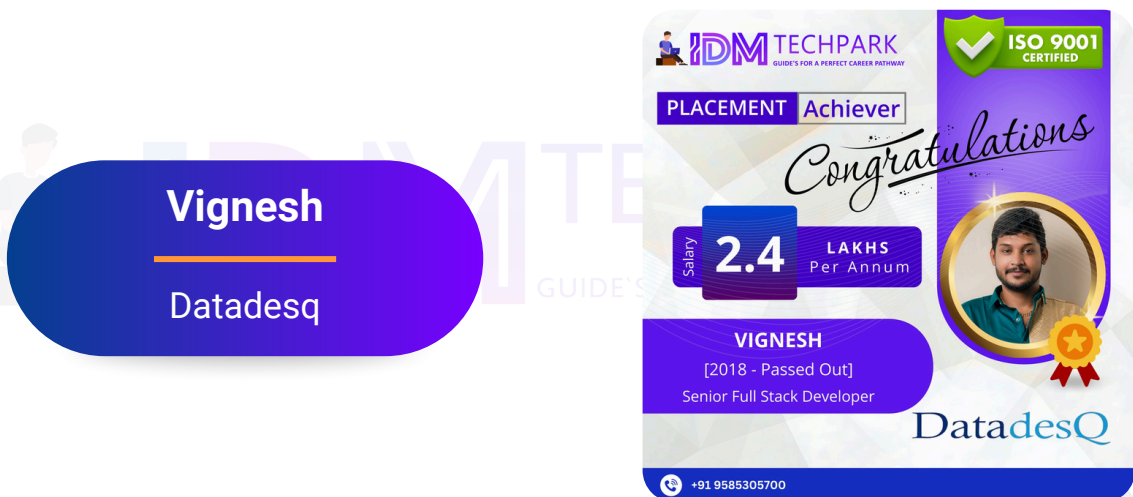
Frutterlabs





Joshwa

Xccessor



Vignesh

Datadesq



Madhumitha

Accenture

Keerthana

AJS



Brindha Boopathi

AJS



Kavin Kumar

AJS

Ajithkumar

AJS



Gowthami

Genpact



Surya

ZUCI

Pavithra

Vel Info Tech



Poovitha

Gray Matter



Ramesh

TDT

Siva Sankar
ST Cloudspark tech



Nabeel Hisham
VTail



Kalayarasan
Violet Infotech

4

Our Alumni Working At



MODULE 1

Introduction to Web Development

- What is web development?
- Frontend vs Backend
- Overview of Web Technologies

MODULE 2

HTML5 – Basics to Advanced

- HTML Tags, Elements, Attributes
- Forms & Input Types
- Semantic HTML

MODULE 3

CSS3 – Styling the Web

- CSS Selectors & Properties
- Box Model, Flexbox, Grid
- Media Queries for Responsive Design

MODULE 4

JavaScript Basics

- Variables, Data Types, Operators
- Functions, Arrays, Objects
- Events, DOM Manipulation



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MODULE 5

Advanced JavaScript

- ES6+ Features (let, const, arrow functions, classes)
- Asynchronous JS (Promises, Async/Await)
- Fetch API



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MODULE 6

Version Control with Git & GitHub

- Git Basics (init, commit, push, pull)
- Branching & Merging
- GitHub Collaboration

MODULE 7

Responsive Web Design

- Mobile-first Design
- Flexbox vs Grid Layout
- Bootstrap / Tailwind CSS Basics

MODULE 8

CSS Preprocessors

- SASS / SCSS
- Variables, Nesting, Mixins
- Build Tools (Vite, Webpack)



MODULE 9

JavaScript DOM Projects

- To-Do App
- Form Validation
- Modal/Popup Creation

MODULE 10

Web Accessibility (a11y) & SEO Basics

- Semantic HTML
- ARIA roles
- Meta tags, alt attributes, page speed

MODULE 11

Package Managers & Build Tools

- NPM/Yarn
- Webpack, Babel
- Task Runners: Gulp

MODULE 12

Introduction to React.js

- Components, Props, State
- Event Handling
- Conditional Rendering

MODULE 13

React Router & Forms

- Client-side Routing
- Controlled & Uncontrolled Forms
- Form Validation (Formik, Yup)



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MODULE 14

State Management in React

- useState, useEffect
- Context API
- Redux Basics

MODULE 15

Frontend Deployment

- Hosting on GitHub Pages, Netlify, Vercel
- Environment variables
- CI/CD basics

MODULE 16

Node.js Introduction

- Node.js Architecture
- NPM Modules
- File System & HTTP Module



MODULE 17

Express.js Framework

- Routing
- Middleware
- REST API Creation

MODULE 18

Working with Databases

- SQL vs NoSQL
- MongoDB Basics (CRUD)
- Mongoose ODM

MODULE 19

Authentication & Authorization

- JWT, OAuth basics
- Passport.js
- Sessions & Cookies

MODULE 20

RESTful API Design

- HTTP Methods
- Status Codes
- API Versioning, Pagination



MODULE 21

Connecting Frontend to Backend

- Fetching Data (Axios)
- Dynamic UIs from APIs
- Handling Errors & Loading States

MODULE 22

Testing Web Applications

- Unit Testing (Jest)
- End-to-End Testing (Cypress, Playwright)
- Debugging Techniques

MODULE 23

Performance Optimization

- Lazy Loading, Code Splitting
- Image Optimization
- Lighthouse Reports

MODULE 24

Progressive Web Apps (PWA)

- Service Workers
- Caching & Offline Support
- Add to Home Screen

MODULE 25

Capstone Project + Deployment

- Full Stack Project (Frontend + Backend)
- Deployment on Render/Heroku/Vercel
- Resume-ready Portfolio

Thank You

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