



IDM TECHPARK
GUIDE'S FOR PERFECT CAREER PATHWAY



.Net Full Stack 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.

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+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

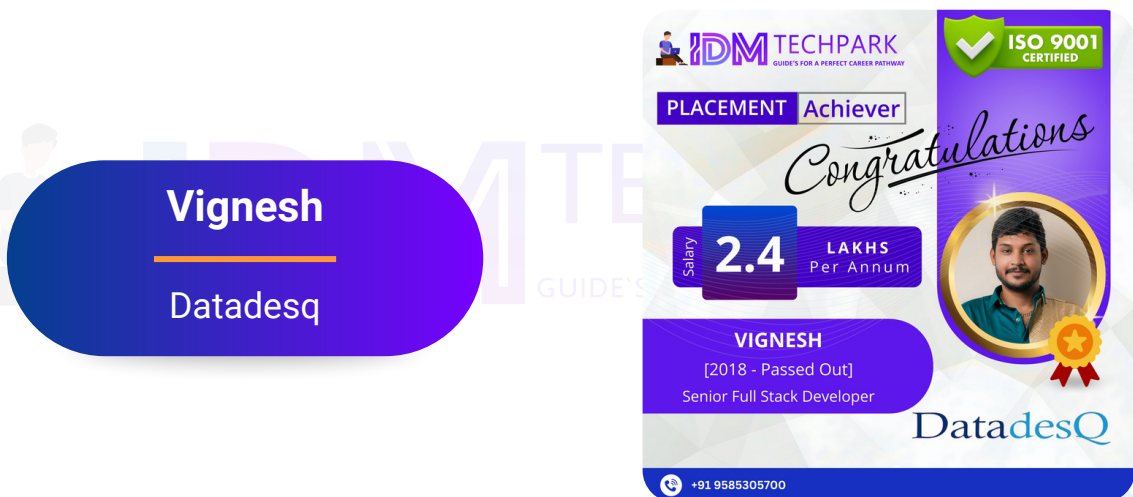
Frutterlabs





Joshwa

Xccessor



Vignesh

Datadesq



Madhumiltha

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 Full Stack Development

- What is Full Stack Development?
- Overview of .NET Ecosystem
- Tech Stack: HTML, CSS, JavaScript, C#, ASP.NET Core, SQL, Entity Framework

MODULE 2

HTML5 Essentials

- Basic Tags, Forms, Semantic Elements
- Media Embedding
- Accessibility in HTML



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MODULE 3

CSS3 & Responsive Design

- Box Model, Positioning
- Flexbox & Grid
- Media Queries
- Responsive Layouts

MODULE 4

JavaScript (ES6+)

- Data Types, Variables, Functions
- Events, DOM Manipulation
- Arrow Functions, Spread, Destructuring



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MODULE 5

Advanced JavaScript

- Fetch API, Promises
- Async/Await
- Local Storage, Session Storage



MODULE 6

Bootstrap & UI Frameworks

- Grid System
- Forms & Buttons
- Alerts, Modals, Carousels

MODULE 7

Git & GitHub

- Git Basics: Init, Clone, Commit
- Branching & Merging
- GitHub Repo Management



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MODULE 8

Introduction to C#

- Variables, Data Types, Operators
- Control Structures
- Methods & Parameters



MODULE 9

OOP in C#

- Classes & Objects
- Inheritance, Polymorphism
- Abstraction, Interfaces



MODULE 10

Exception Handling & File I/O

- Try/Catch/Finally
- Reading/Writing Files
- Logging Errors

MODULE 11

.NET & Visual Studio Setup

- Installing .NET SDK
- Setting Up Visual Studio/VS Code
- First ASP.NET Core Project

MODULE 12

ASP.NET Core MVC Basics

- MVC Architecture
- Routing & Controllers
- Views with Razor Syntax

MODULE 13

Models and Entity Framework Core

- Defining Models
- DbContext & Migrations
- CRUD Operations

MODULE 14

Forms & Validation

- Strongly Typed Forms
- Data Annotations
- Server-side & Client-side Validation



MODULE 15

LINQ & Advanced EF Core

- LINQ Queries
- Eager vs Lazy Loading
- Relationships: One-to-Many, Many-to-Many

MODULE 16

ASP.NET Core Web API

- Creating API Controllers
- Routing & HTTP Verbs
- JSON Serialization
- Swagger Integration

MODULE 17

RESTful API & Postman Testing

- CRUD with REST APIs
- Using Postman for API Testing
- Status Codes & Error Handling

MODULE 18

Authentication & Authorization

- ASP.NET Identity
- Role-Based Access Control
- JWT Authentication (for APIs)

MODULE 19

Frontend Framework – React or Angular

- Basics of React/Angular
- Fetching .NET APIs
- Component Lifecycle
- State Management

MODULE 20

Blazor (Alternative to JS Frontend)

- Blazor Server vs WebAssembly
- Components, Routing, Data Binding
- Calling APIs in Blazor

MODULE 21

Dependency Injection & Middleware

- Service Registration
- Custom Middleware
- Logging & Request Handling

MODULE 22

Unit Testing & Debugging

- xUnit for Backend
- Debugging Techniques
- Testing Web APIs

MODULE 23

Project: Full Stack App

- Admin Panel + User Interface
- Auth, CRUD, Dashboards
- REST API Integration

MODULE 24

Hosting & Deployment

- IIS Hosting
- Azure Deployment (Web App)
- Docker

MODULE 25

Resume & Career Prep

- Developer Resume Tips
- GitHub Project Portfolio
- Interview Preparation
- Freelancing & Job Sites

Thank You

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