VECTOR INDIA

DRIVES YOU TO INDUSTRY

FULL STACK DEVELOPMENT

(MERN Stack)

India's best institute for Embedded Systems training now brings to you the most in-demand course.

729
MNCs Hired in 2024

All India Educational Excellence Award
Winner for 3 years in a row

1611
Students Recruited in 2024

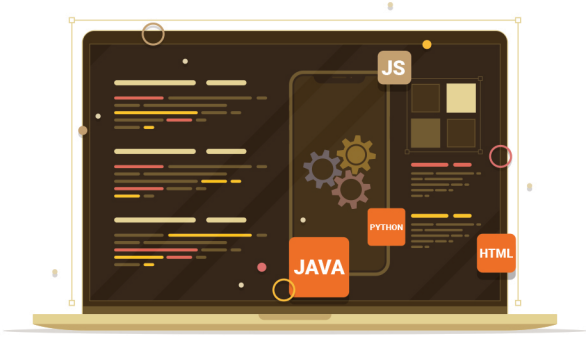
AMD

L&T Technology Services

ZF

THE INSTITUTE

- Directors with over a decade of rich industry experience in Design Development, Training & Recruitment.
- Industry-certified and experienced faculty.
- Lab with a 1:1 Student to System ratio.
- A/C classrooms with LED projectors and equally distributed sound systems.
- A dedicated placement cell with operations in Hyderabad, Bengaluru and Chennai.



Full Stack Development (MERN Specialization)

The student will

- Become a full stack developer with expertise in MERN Stack.
- Gain a strong knowledge of problem-solving and web development fundamentals.
- Able to build responsive web applications for societal needs.

Why Vector India

19 yrs

Experience in embedded systems training and producing industry-ready talent

50,000+

Alumni, and 650+ corporate collaborations

100%

Genuine placement assistance with quality experiential training

ADMISSION

We offer a 6-month comprehensive training program with a well-integrated approach that gives you hands-on experience in problem-solving and Full Stack Development (MERN Stack). 100% genuine placement assistance.

- No fees for Scholarship test
- Working professionals with relevant experience are eligible for direct admission

Admission Process

- The Admission into Full Stack Development (MERN Stack) course is based on our VECTOR Online Scholarship Test.
- The student can attempt the Scholarship Test at any time.
- Visit our website www.vectorindia.org to register for our scholarship test.

Test Syllabus

- Python programming
- General aptitude

Scholarships

Admission Test	Final Degree Score	Fee Waiver
> 80%	> 60%	50%
70% to 79.9%	> 60%	25%
50% to 69.9%	> 70%/GATE Score	10%

www.vectorindia.org

Apply online

WHAT WE OFFER

- Problem-solving
- High-quality practical/application-oriented training
- Genuine placement assistance
- Lateral placements for the next 6 months
- Industry accepted course content
- Lab with a 1:1 system ratio

TRAINING PROCESS

- 6-days a week, theory (1.5-2hrs) and practical (2hrs) sessions
- Daily assignments
- Weekly assessments
- Mock interviews & project guidance
- Parallel classes will be conducted when required

ELIGIBILITY FOR PLACEMENTS

- **Candidates must meet all the following criteria to be eligible for placement assistance.**
- **Students should undergo Vector Shortlisting Test(VST) for every 3 months if they have not secured a placement in any company within three months of becoming eligible for Campus Placements.**

Criteria	Minimum Attendance	Minimum Internal Score	Mock & Assessment Interview
Theory	75%	40%	Recommendation
Lab	75%	40%	Recommendation
Communication	75%	40%	Recommendation
Aptitude	75%	40%	Recommendation

THE RESULT

Industry-Ready Professionals

Programming for problem-solving

Python, Java

Front End

HTML, CSS, Bootstrap, JavaScript, React JS

Database

MySQL, MongoDB

Back End

Node. JS and Express

Version Control

GIT

Communication Skills

Aptitude Skills

4 MINI PROJECTS

1 MAIN PROJECT

Programming for problem-solving

PYTHON:

1. Introduction to Python
2. Control Statements
3. List
4. Tuple
5. Dictionary
6. Set
7. Strings
8. Searching and sorting algorithms
9. Stack
10. Queue
11. Functions
12. Recursion
13. Lambda expressions
14. Decorators and Generators
15. Files
16. OOPs Concepts
17. Exception handling
18. Problem-solving using online coding platforms like HackerRank
19. Numpy
20. Pandas

CORE JAVA PROGRAMMING

- Java features, simple java program
- Difference between JDK, JRE, and JVM
- Literals, variables, keywords, datatypes
- operators
- input and output statements
- if, if else, else if ladder
- nested if else
- switch
- for loop
- while loop
- do … while loop
- nested loops
- break, continue, enhanced for, Labelled for
- single dimensional arrays,multi dimensional arrays, jagged arrays & array operations
- introduction to Strings & string operations
- string buffer and string builder
- classes and objects
- methods
- constructors, constructor overloading
- static methods, static block, this keyword
- passing arrays, objects to methods
- recursion
- inner class

- Simple, multilevel inheritance
- hierarchical, hybrid inheritance
- Super keyword, access specifiers
- polymorphism, final methods, class
- abstract class
- interfaces
- packages
- util package
- Exception handling
- wrapper classes
- Multi threading
- Generic Classes
- Collections
- IO streams
- Lambda expression

FRONT END

HTML:

- HTML basic tags and attributes
- Hyperlinks and bookmarks
- Images, favicon, emojis
- List
- Tables
- Forms
- HTML5 concepts

CSS:

- CSS selectors
- Inline vs Internal vs External styling
- Background, Font Styling
- Box Model
- Display, positioning, z-index properties
- Styling Lists, Tables, Forms
- Gradients
- Transforms
- Transitions
- Animation
- Responsive Media Queries
- Flexbox
- Grid Layout
- Font Awesome

Mini project-1

BOOTSTRAP:

- Containers
- Grids
- Buttons
- Navbars
- Images
- Tables
- Forms
- Pagination

Mini project-2

JAVASCRIPT

- Introduction to JavaScript
- Datatypes
- Arrays
- Strings
- Objects
- JSON
- Functions
- Events and DOM manipulations
- Local storage
- Client-side validation
- Templet strings
- Rest operator
- Spread operator
- Arrow functions
- ES6+ concepts

Mini project-3

REACTJS:

- Introduction to React JS, JSX
- Rendering Elements
- Functional and class components
- Props
- State and Lifecycle
- Event handling
- Lists and Keys
- Forms
- Tables
- Routing
- Hooks
- Rendering API data
- Integration of 3rd party Modules
- Material UI

Mini project-4

DATABASE

MySQL

- Introduction to DBMS
- SQL Basics
- DDL, DML, DQL statements
- Joins
- Subquery
- Aggregate Function
- HAVING Clause
- GROUP BY
- ORDER BY
- LIKE Operator
- IN, NOT IN, and Between

MONGO DB

- Introduction to MongoDB
- CRUD operations
- Aggregation Operations
- Data Modelling

BACK END

NODE.JS AND EXPRESS

- Introduction to NodeJS
- Node JS architecture
- Reading and Writing Files
- Blocking and Non-Blocking: Asynchronous Nature of Node.js
- Routing
- Using events, listeners, timers, and callbacks in Node.JS
- Handling Data I/O

- Accessing the file system from Node.JS
- HTTP services in Node.JS
- Introduction to Express Framework
- Express Routing
- Implementing MVC in Express
- Handling HTTP Request, Preparing HTTP Response
- Middleware
- Using Template Engines
- Error Handling
- API Handling
- Integration with Database
- CRUD Operations
- Integrating react APP with express
- Authorization and Authentication
- File uploading using multer

Main project

VERSION CONTROL

GIT

- Introduction to Version Control System
- Git File Management
- Branching
- Pull request

Premier MNCs & R&D companies that recruited from us

And many more

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VECTOR INDIA

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