



Proposal for Industry-Oriented Value Added Course (VAC)

Full Stack Development (MERN Stack)

6-Day (48 Hours) Skill Development & Placement Readiness Program

To,

The Principal,

S.A. Engineering College,

Avadi, Chennai-77.

Subject: Proposal for Conducting a 6-Day Industry-Oriented Value Added Course (VAC) on Full Stack Development (MERN Stack) for Third-Year Engineering Students

Respected Sir,

1. Introduction

Greetings from **Marzelet Info Technology Pvt Ltd**.

We are pleased to submit this proposal for conducting a **6-Day Industry-Oriented Value Added Course (VAC) on Full Stack Development (MERN Stack)** for the **Third-Year Engineering Students** of **S.A. Engineering College**.

The software industry is experiencing rapid growth in web application development, with organizations seeking professionals who possess practical expertise in modern full-stack technologies. The **MERN Stack (MongoDB, Express.js, React.js, and Node.js)** is one of the most in-demand technology stacks used to build scalable, secure, and high-performance web applications.

This training program is designed to bridge the gap between academic learning and industry expectations by providing students with hands-on experience in front-end development, back-end development, database management, REST API development, authentication, deployment, and modern development tools.

The training will be delivered by **VIP Academy**, the Training, Internship, and Placement Division of **Marzelet Info Technology Pvt Ltd**, through project-based learning, real-world case studies, and industry-oriented assignments.

2. Objectives

The objectives of this Value Added Course are:

- To build a strong foundation in modern web development.
- To develop responsive user interfaces using HTML, CSS, Bootstrap, Tailwind CSS, and React.js.
- To understand JavaScript (ES6+) programming concepts.
- To develop secure backend applications using Node.js and Express.js.
- To design and manage databases using MongoDB.
- To build and consume RESTful APIs.
- To implement authentication and authorization using JWT.



- To use Git and GitHub for version control.
- To deploy web applications to cloud platforms.
- To prepare students for internships and placement opportunities.

3. Proposed Activities

The **6-Day Value Added Course (VAC)** will be conducted through interactive classroom sessions, practical laboratory exercises, coding challenges, and a live industry project.

Day 1 – Front-End Development Fundamentals

- Introduction to Web Development
- HTML5
- CSS3
- Responsive Web Design
- Bootstrap
- Hands-on Lab

Day 2 – JavaScript & React.js

- JavaScript ES6+
- DOM Manipulation
- React.js Fundamentals
- Components
- Props & State
- React Hooks

Day 3 – Backend Development

- Node.js
- Express.js
- REST API Development
- API Testing using Postman

Day 4 – MongoDB Database

- MongoDB Fundamentals
- CRUD Operations
- Mongoose
- Database Integration



- Authentication using JWT

Day 5 – Full Stack Integration

- Connecting React with Node.js
- Authentication Flow
- Role-Based Access
- Git & GitHub
- Deployment using Vercel

Day 6 – Industry Capstone Project

- Full MERN Stack Application Development
- Project Presentation
- Resume Building
- Mock Interview
- Career Guidance
- Certificate Distribution

Training Methodology

- Expert-Led Interactive Sessions
- Hands-on Laboratory Practice
- Real-World Case Studies
- Mini Projects & Capstone Project
- Group Discussions and Team Activities
- Assessments and Quizzes
- Project Presentation and Feedback
- Career Guidance and Placement Support

4. Benefits to Students

Students will:

- Gain practical knowledge in Full Stack Web Development.
- Learn industry-standard MERN technologies.
- Develop complete web applications.
- Build RESTful APIs.



- Work with real databases.
- Learn version control using Git & GitHub.
- Complete an industry-ready capstone project.
- Receive career guidance and interview preparation.
- Earn a Course Completion Certificate.
- Improve internship and placement opportunities.

5. Benefits to the Institution

The institution will benefit through:

- Strong Industry–Academia collaboration.
- Improved student employability.
- Industry-oriented skill development.
- Enhanced placement outcomes.
- Exposure to modern web technologies.
- Practical project-based learning.
- Faculty interaction with industry professionals.
- Opportunities for future technical collaborations.

6. Program Duration

Particular	Details
Program	Value Added Course (VAC)
Duration	6 Days
Total Hours	48 Hours
Hours per Day	8 Hours
Mode	Offline
Participants	Third-Year Engineering Students
Batch Size	244 Students



7. Software & Tools

- HTML5
- CSS3
- JavaScript (ES6+)
- Bootstrap
- Tailwind CSS
- React.js
- Node.js
- Express.js
- MongoDB
- Mongoose
- JWT Authentication
- REST API
- Git
- GitHub
- Postman
- VS Code
- Vercel



8. Deliverables

Marzelet Info Technology Pvt Ltd. will provide:

- 48 Hours of Instructor-Led Training
- Digital Study Materials
- Hands-on Laboratory Sessions
- Coding Assignments
- Mini Projects
- Industry Capstone Project
- Course Completion Certificate
- Internship Opportunity
- Placement Assistance



- Resume Building Workshop
- Mock Interview Session

9. Commercial Proposal

Particular	Details
Course	Full Stack Development (MERN Stack)
Duration	6 Days (48 Hours)
Fee per Student	₹1,200
Recommended Batch Size	244 Students
Total Fee (244 Students)	₹2,92,800 + GST

Fee Includes:

- Expert Faculty
- Training Materials
- Practical Lab Sessions
- Mini Projects & Capstone Project
- Certificate of Completion
- Internship Opportunity
- Placement Assistance

Payment Terms:

- 50% Advance before commencement of training.
- 50% Balance within 7 days after successful completion of the program.

10. About VIP Academy

VIP Academy is a leading **Software Training, Internship, and Placement Support Institute** in Chennai, operating under **Marzelet Info Technology Pvt Ltd**. We specialize in delivering industry-oriented training in **Artificial Intelligence, Data Science, Machine Learning, Full Stack Development, Cyber Security, Cloud Computing, Software Testing, and Digital Technologies**.

Our mission is to bridge the gap between academia and industry by providing practical training, real-world projects, internships, certification, and placement support, empowering students to become industry-ready professionals.



11. Conclusion

We believe this **Value Added Course (VAC) on Full Stack Development (MERN Stack)** will equip the students of **S.A. Engineering College** with practical knowledge, technical expertise, and industry-ready skills required to build modern web applications and succeed in software development careers.

We look forward to collaborating with your esteemed institution to empower students through industry-focused training and prepare them for successful careers in the IT industry.

Thank you for your valuable time and consideration.

Yours Sincerely,

PAZHANIVEL VIJAYAKUMAR
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