



MITS

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE

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A Report on
One Week Domain-Specific Hands-On Workshop on Full Stack Web Development using Modern Frameworks
Organized by
Department of Computer Science & Engineering
In Association with ISTE Student Chapter

Dates: 29.12.2025 – 03.01.2026

Time: 09:30 AM – 4:30 PM

Venue: SRB – 308

Organized by: Department of Computer Science & Engineering

In Association with: MITS ISTE Student Chapter

Resource Person: Mr. Prashanth K S, Full Stack Developer, Rampex Technologies, Coimbatore

Report Submitted by: Mrs. G. Vasundhara Devi Assistant Professor/CSE

Event Overview

Title: One Week Domain-Specific Hands-On Workshop on Full Stack Web Development using Modern Frameworks

The program commenced at 9:30 AM with a warm welcome address delivered by Mrs. G. Vasundhara Devi, Assistant Professor, Department of CSE. She cordially welcomed the dignitaries, resource person, faculty members, and students. She briefly outlined the purpose of organizing the One Week Hands-on Workshop on “Full Stack Web Development using Modern Frameworks” and emphasized its relevance in today’s fast-evolving IT industry.

Following the welcome address, Dr. M. Sreedevi, Professor and Head, Department of CSE, highlighted the growing demand for skilled Full Stack Developers in the software industry. She stressed the importance of mastering both frontend and backend technologies to build scalable, secure, and user-friendly web applications. She encouraged students to actively participate in the sessions, engage in hands-on practice, clarify their doubts, and utilize the workshop as an opportunity to strengthen their practical development skills.

The session was then handed over to the resource person, Mr. Prashanth K S, Full Stack Developer, Rampex Technologies, Coimbatore. He began by expressing his sincere gratitude to the organizing committee, the Head of the Department, the Principal, and the Management of MITS Madanapalle for providing him with the opportunity to interact with the students. He appreciated the enthusiasm and interest shown by the participants.

The resource person introduced the fundamentals of Full Stack Web Development, explaining the integration of frontend technologies such as HTML, CSS, JavaScript, and modern frameworks with backend technologies including Node.js, Express.js, and database systems. He shared insights on real-time application development, industry practices, project deployment strategies, and current trends in modern web technologies.

Program Objectives

The primary objectives of the program were:

- To introduce students to the fundamentals and advanced concepts of Full Stack Web Development.
- To provide hands-on experience in building responsive and dynamic web applications.
- To bridge the gap between theoretical knowledge and real-time industry implementation.
- To enable students to design, develop, test, and deploy complete web applications.
- To enhance coding proficiency in modern frontend and backend frameworks.
- To improve students' problem-solving abilities through mini project development.
- To strengthen placement readiness in web development and software engineering domains.

Day 1: Fundamentals of Web Development

Session Topics:

Introduction to HTML5, CSS3
Responsive Web Design concepts
Basic JavaScript
Creating static web pages

Day 2: Advanced Frontend Development

Session Topics:

Introduction to Modern JavaScript (ES6+)
Frontend Framework Overview (React/Angular concepts)
Component-based architecture
Building interactive UI components



Day 3: Backend Development

Session Topics:

Introduction to Node.js
Express.js framework
RESTful APIs
Database connectivity (MongoDB/MySQL basics)

Day 4: Frontend-Backend Integration

Connecting APIs with Frontend
Authentication & Authorization Basics
CRUD Operations
Error Handling & Debugging
Hands-on: Full Stack Application Integration

Day 5: Mini Project Development

Project Team Formation
Requirement Analysis
UI Design & Database Schema
Coding & Implementation

Resource Person Interaction & Guidance



Day 6: Project Presentation & Valedictory

Student Project PPT Presentation
Live Demo of Web Applications
Feedback & Technical Suggestions by Resource Person
Interaction Session
Certificate Distribution

Outcomes of the Program

The Six-Day Hands-on Workshop on “Full Stack Web Development using Modern Frameworks” yielded significant academic and professional benefits for the participants. The major outcomes of the program are as follows:

- 1. Enhanced Technical Competency:**
Students acquired comprehensive knowledge of both frontend and backend technologies, including modern web frameworks, server-side development, and database integration.
- 2. Practical Implementation Skills:**
Participants gained hands-on experience in designing, developing, testing, and integrating full stack web applications, thereby strengthening their practical coding abilities.



- 3. Project Development Experience:**
Students successfully developed and demonstrated mini projects, enabling them to understand real-time application architecture and workflow.
- 4. Improved Problem-Solving and Debugging Skills:**
Through continuous practice and mentor guidance, students enhanced their ability to identify errors, debug code, and optimize performance.
- 5. Teamwork and Communication Skills:**
The project-based learning approach encouraged collaboration, teamwork, and effective technical presentation skills.
- 6. Industry Exposure and Career Awareness:**
The resource person shared insights into current industry trends, deployment strategies, and employer expectations, thereby improving students' industry readiness.

7. **Portfolio and Placement Readiness:**

The mini projects developed during the workshop can be included in students' professional portfolios, strengthening their placement and internship prospects.

8. **Increased Confidence:**

Students gained confidence in developing and presenting complete full stack applications independently.

Overall, the workshop successfully achieved its objectives by bridging the gap between theoretical knowledge and practical implementation, thereby enhancing students' technical proficiency and employability in the domain of full stack web development.

Mr. B. Galeebathullah, Assistant Professor, Department of CSE, delivered the Vote of Thanks. He expressed sincere gratitude to the Management, Principal, Head of the Department, and the resource person for their support in successfully conducting the Six-Day Workshop on "Full Stack Web Development using Modern Frameworks." He also appreciated the active participation of the students. The program concluded with the distribution of certificates and a positive note to organize more such skill-oriented workshops in the future.