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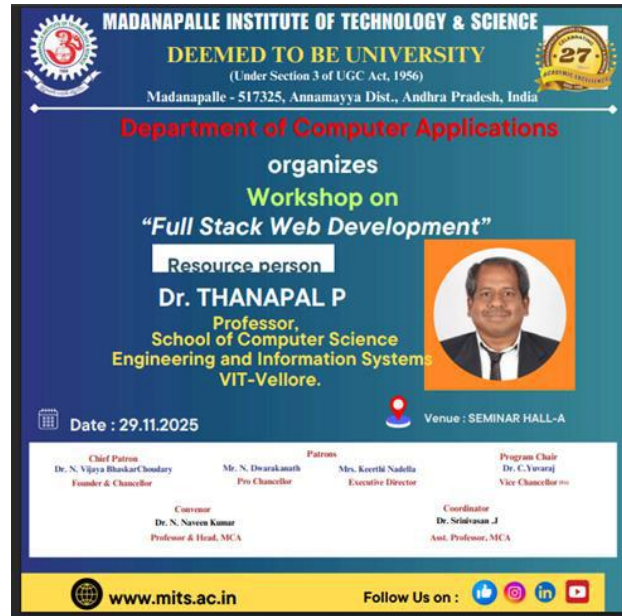
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**A Report on Hands-on workshop on “Full Stack Web Development”**

**Organized by Department of Computer Applications**

**on 29.11.2025**



**Report Submitted by: Dr.Srinivasan Jagannathan, Assistant Professor, Department of Computer Applications.**

**Resource Person Details: Dr.Thanapal P, Professor & HoD , School of Computer Science Engineering and Information Systems, VIT-Vellore.**

**Participants: 125 (Students)**

**Mode of Conduct: Offline**

**Report Received on 02.12.2025.**

### **Inaugural Session**

The Department of Computer Applications organized a one-day workshop on “Full Stack Web Development” on 29th November 2025. The objective of the workshop was to provide students with a practical understanding of both front-end and back-end development concepts using React JS and Node JS, enabling them to build complete web applications. The resource person also provided extensive hands-on training in JavaScript, Node JS, and React JS, which helped the participants gain real-time project experience.

The program commenced with a warm welcome address and session introduction by Dr. Srinivasan J, Assistant Professor, MCA, who welcomed the gathering and presented an introduction of the chief guest and resource person.



Further, Dr. N. Naveen Kumar, Professor & Head, MCA Department, delivered the introduction speech, highlighting the significance of modern web technologies and the department's continuous efforts in providing industry-oriented training for students.

This was followed by the Presidential Address delivered by Dr. Ramanathan, Principal, who emphasized the importance of full-stack development skills in the current IT industry and encouraged students to utilize such opportunities to enhance their technical capabilities.

#### Technical Session by the Resource Person:

Dr. Thanapal handled the entire technical session and delivered an in-depth, interactive training on JavaScript, Node JS, and React JS, enabling students to gain strong practical exposure to full-stack development.



#### Key topics covered in this session

- The resource person explained the fundamentals of Full Stack Web Development and described how front-end, back-end, and database components work together in a complete application.
- He delivered a detailed session on HTML and CSS, where he explained the structure of web pages using HTML tags and demonstrated how CSS is used for styling.
- He also explained the different types of CSS—inline, internal, and external—and illustrated each type with example programs for better understanding.
- He delivered an in-depth session on JavaScript, where he explained the core concepts such as variables, data types, functions, arrays, and objects.
- He also demonstrated how JavaScript is used to add interactivity to web pages and provided example programs to show how events, loops, and conditional statements work in real-time applications.
- In the afternoon session, he delivered detailed training on Node JS and React JS, where he explained how to build server-side applications using Node JS and demonstrated the creation of REST APIs.
- He also introduced React JS for front-end development and guided the students in building interactive user interfaces with components, state, and hooks through practical examples.

#### Outcome of the Workshop

- The workshop enhanced the students' understanding of both front-end and back-end development using modern technologies such as HTML, CSS, JavaScript, Node JS, and React JS.
- Students gained hands-on experience in writing real-time code and building simple full-stack applications.
- Participants learned how to create and connect REST APIs with front-end interfaces, improving their practical skills in full-stack integration.
- The sessions improved the students' confidence in working with JavaScript frameworks and server-side programming tools.
- Students became familiar with industry-relevant concepts, coding practices, and deployment fundamentals.

The event concluded with a formal vote of thanks delivered by Ms. Sandhya, II MCA student, who expressed gratitude to the resource person, dignitaries, faculty members, and participants for making the workshop a success.