



A J INSTITUTE OF ENGINEERING AND TECHNOLOGY

NH-66, Kottara Chowki, Mangaluru -575006, Karnataka, INDIA

A Unit of Laxmi Memorial Education Trust®

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Date: 07-04-2026

REPORT ON “Workshop on Full Stack Development with DevOps & AI Driven Application”

Name of the Program:	Full Stack Development Workshop	Program Dates & Timings:	27-03-2026 to 28-03-2026 9.00AM to 5.00PM			
Name & Details of the Resource Person:	Mr Sujith, Senior DevOps Engineer, Tetherfi. Mr. Sanjay, Technical Lead, Phenom. Ms Deekshitha, Senior Software Engineer, UnifyCx. Ms Harshika, Senior Software Engineer, Incture. Mr Dattaprasad, Senior Software Engineer, Everi.					
Organized by	Enigma, Students association, Dept of CSE		In Association with (clubs/Dept.)	NA		
Number of Participants	Students	150	Faculty	NA	External participants	NA
Program Outcome (PO) Mapping	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO10, PO11, PO12					
Coordinators	Mr Nithin Heraje, Placement Coordinator, Assistant Professor, CSE					
Expenditure	NA		Social Media Link	Facebook Instagram		

About the Program:

A two-day intensive workshop on **Full Stack Development with DevOps & AI-Driven Applications** was conducted to provide students with practical exposure to modern web development technologies and deployment practices.

The workshop focused on building scalable web applications using **React**, **Node.js**, and integrating DevOps practices such as **Docker** for efficient application deployment.

- **Day 1** emphasized **backend development**, covering server-side programming, API creation, and database integration.
- **Day 2** focused on **frontend development, Dockerization, and AI-assisted project development**, culminating in a portfolio-building project.

Participants gained hands-on experience by developing a **full-stack portfolio application enhanced with AI features**.

Workshop Content Overview

Day 1: Backend Development

- Introduction to server-side programming
- Setting up backend using **Node.js**
- REST API development
- Database connectivity and CRUD operations
- Testing APIs using tools
- Understanding backend architecture

Day 2: Frontend, DevOps & AI Integration

- UI development using **React**
- Component-based architecture
- Integrating frontend with backend APIs
- Introduction to DevOps concepts
- Application containerization using **Docker**
- Building and running containers
- Introduction to AI tools for development
- Portfolio project development with AI assistance

The workshop successfully bridged the gap between **theoretical knowledge and practical implementation**.

It provided participants with a comprehensive understanding of **modern full stack development, DevOps practices, and AI integration**, preparing them for industry-level application development.

The hands-on approach and project-based learning ensured that students gained **practical skills and confidence** in building and deploying real-world applications.

Objectives: The training program enable students

- To provide hands-on experience in **full stack development** using Node.js and React.
- To introduce **DevOps practices** and application deployment using Docker.
- To enable students to build **AI-driven applications and portfolio projects**.

Outcomes: On successful completion of training program the student should able to:

- Ability to develop and integrate **frontend and backend applications** effectively.
- Understanding of **application deployment and containerization** using Docker.
- Capability to create and showcase a **complete AI-enabled portfolio project**.

Articulation Matrix:

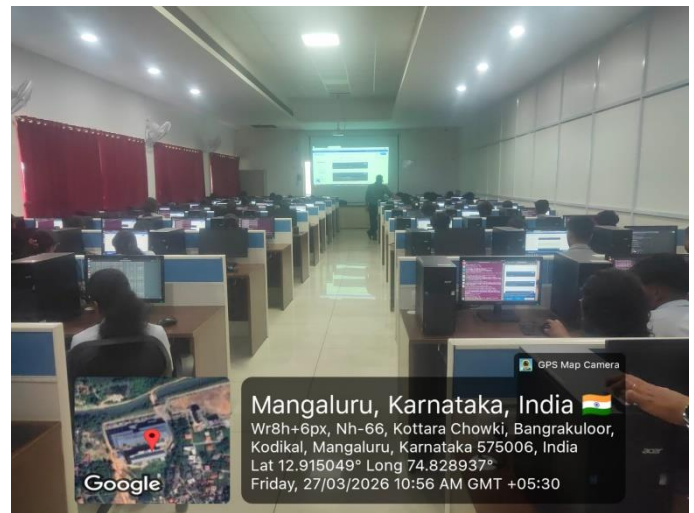
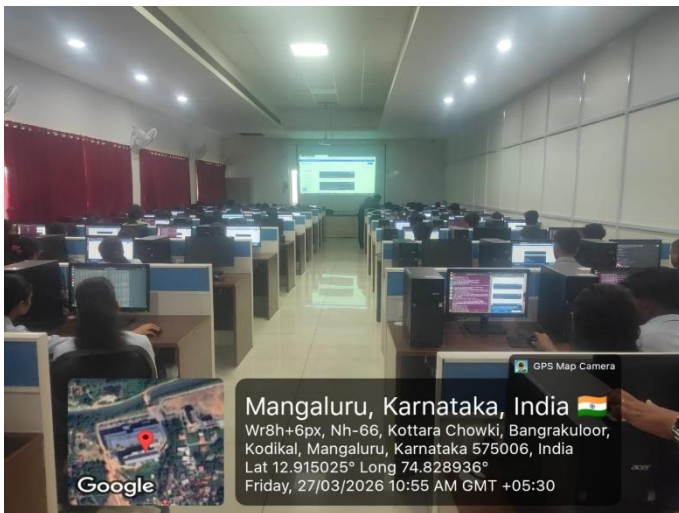
Course Outcomes	Program Outcomes											
	1	2	3	4	5	6	7	8	9	10	11	12
1	3	2	1	1	2				2		1	1
2					3	2			2	1		1
3	3	1	2						3	3	1	3
Average	2	1	1	0.4	1.7	0.7			2.4	1.4	0.7	1.7

Photos:

Day-1: Inaugural ceremony



Day-1: Backend and DevOps session



Day-2: Frontend and Docker session



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Day-2: Valedictory ceremony



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Vice Principal & HOD

Dr P. Mahabaleswarappa
Dean Academics

Dr Shantharama Rai C
Principal

For Information: Vice President, LMET
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