Report on

A Two-day Skill Development Training Program

on

" MERN STACK WEB DEVELOPMENT "

Organized by

SKILL DEVELOPMENT CELL

in Association with

Department of

Artificial Intelligence

From 01.04.2024 to 02.04.2024

Venue: SCALE-UP ROOM

Resource Person: **Dr. Sajja Tulasi Krishna,**

Assistant Professor, Department of Computer Science and Engineering,

Koneru Lakshmaiah Education Foundation

Vaddeswaram, Guntur (Dt.), Andhra Pradesh

Organized & submitted by: **Dr. VB Thurai Raaj,** Assistant Professor in EEE, SCD-MITS Coordinator & SPOC- APSSDC t-SDI, Madanapalle Institute of Technology & Science, Madanapalle -517325, Annmayya Dist., Andhra Pradesh, India.

Co-coordinator: 1. Mr. Kiran Palakeeti, Assistant Professor, Dept. of AI, MITS.

Total Participants: 47 -Students and 2- Faculties.

The Skill Development Cell, Madanapalle Institute of Technology and Science, (SDC-MITS) Andhra Pradesh, Madanapalle in association with the Department of Artificial Intelligence, MITS has organized a **Two-day skill development program** from 01.04.2024 to 02.04.2024 on **"MERN STACK WEB DEVELOPMENT"** In this program, about 68 participants participated and made the event grant success.

A summary of the skill development program is as follows:

Dr. C. Yuvaraj, Professor & Principal, MITS, and Dr. K. Chokkanathan Assoc. Professor & Head, Dept. of Artificial Intelligence, MITS welcomed the resource person Dr. K. Chokkanathan HOD/AI gave a brief introduction about the two-day skill development program. Dr. V B Thurai Raaj, Assistant Professor in EEE & SDC-MITS coordinator, introduced the resource person. Dr. C. Yuvaraj, Professor & Principal, MITS, inaugurated the program with his motivational speech and he handed over the session to the resource person. The 47 students and five faculty members from the Department of Artificial Intelligence participated in this two-day hands-on training program.

Picture During Inauguration: Dr. C. Yuvaraj, Professor & Principal, MITS, addresses the gathering

Session-wise Technical Summary:

1st Day: 01.04.2024

Fore Noon Session (9.00 AM to 1.00 PM)

- Introduction and Overview of MERN Stack Web Development.
- Importance and usage of MongoDB, Express, React, and Node.js
- Job opportunities on MERN Stack Web Development
- Installation of required software like VS CODE and NODE.JS

Picture During Inauguration: First Day Training session

1st Day: 01.04.2024

Afternoon session (2.00 PM to 5.00 PM)

- Hands-on Session: Project creation in Nodejs environment.
- Designing Front-end for the application using React.
- Design and Implementation of Signup and Sign-in pages.

2nd Day: 02.04.2024

Fore Noon Session (9.00 AM to 1.00 PM)

- Backend Working of the project by using express, MongoDB (Database connectivity).
- CRUD operations using NoSQL(MongoDB)

2nd Day: 02.04.2024

Afternoon session (2.00 PM to 4.00 PM)

- Doubt clarification and interaction session.

Picture During Facilitation: Along with Chief Guest, Dr. K. Chokkanathan, HOD/AI, Mrs. R. Dhanalakshmi, dept. of AI, Dr. V B Thurai Raaj dept. of EEE, Mr. Kiran Palakeeti dept. of AI

Picture During the End of the Session: Chief Guest with participating students.

Outcomes: **students can be able to**

1. Understand the Components of MERN Stack Development

2. Learn Backend Development using Node.js and Express.js

3. Learn Frontend Development with React.js

4. Integrate Frontend and Backend

5. Perform CRUD (Create, Read, Update, Delete) operations on a MongoDB database.

6. Get a Job in the domain of MERN Stack Development

I expressed my gratitude to the Management and **Dr. C Yuvaraj, Principal** for giving permission and financial support to organize this program. I thank **Dr. C. Kamal Basha**, Vice **Principal**- Administration for providing the necessary needs in time and for his support. I Thank **Dr. A. V. Pavan Kumar, Professor & HOD/EEE,** for his continued guidance in all the parameters. I thank Mr. Kiran Palakeeti, Assistant Professor, Dept. of AI, department coordinator of this program MITS. Finally, I thank **Dr. K. Chokkanathan, HOD/AI** for giving me this good opportunity to conduct this program.