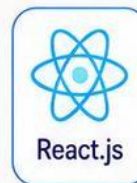


MERN STACK WORKSHOP



For
MCA III Semester Students



Conducted by



PurpleLane

Make the right choice



From **21.07.2026** to **04.08.2026**

WORKSHOP HIGHLIGHTS

- ✓ Expert Industry Trainers
- ✓ Hands-on Training
- ✓ Group Project Development
- ✓ Placement-Oriented Training
- ✓ Certificate of Participation



Venue:
MCA Seminar
Hall & Lab
B.V. RAJU COLLEGE
Bhimavaram



Time:
10:00 AM to 1:00 PM
2:00 PM to 5:00 PM



Enhance Your Skills.
Build Your Future.

★ Organized by **DEPARTMENT OF MCA** ★

MERN Stack Workshop

About the Workshop

The MERN Stack Workshop is a comprehensive industry-oriented training program designed to equip MCA final-year students with the practical skills required for industry requirements. The MERN stack consists of MongoDB, Express.js, React.js, and Node.js, four powerful JavaScript technologies that enable developers to build scalable, secure, and high-performance web applications using a single programming language across both the frontend and backend.

The Department of MCA, B.V. Raju College (Autonomous), organized a 12-day MERN Stack Workshop for MCA III Semester students from 21 July 2026 to 03 August 2026 with the objective of equipping them with industry-relevant MERN stack web development skills.

Objectives

The primary objectives of the MERN Stack Workshop are to:

- Provide students with a strong foundation in modern MERN Stack web development.
- Enhance practical programming skills using JavaScript across both frontend and backend development.
- Develop the ability to design, build and deploy complete web applications.
- Prepare students for internships, technical interviews, and software development careers.

About PurpleLane

PurpleLane is a technology training and skill development organization dedicated to preparing students for careers in the IT industry. The company specializes in delivering industry-focused workshops, certification programs, and hands-on technical training in emerging technologies.

Trainers

1) Mr. V Madhu Sai

Mr. V. Madhu Sai is an experienced Full-Stack Developer and technical trainer with expertise in the MERN Stack. He has extensive experience in designing, developing, and deploying scalable web applications using modern JavaScript technologies.

2) Mrs. B. Mounika

Mrs. B. Mounika is a skilled Software Developer and technical trainer specializing in modern web application development using the MERN Stack. She has practical experience in developing responsive, user-centric web applications.



PurpleLane MERN Stack Workshop

12-day curriculum overview: what students learn, topic by topic.

Topic	Hands-on Tasks	What You Will Learn
1.  Introduction to MERN, HTML & CSS Basics	• Colors and buttons • Layout and fonts	• What the MERN stack is • How MongoDB, Express, React, and Node.js connect • Building a structured HTML form • Styling with colors, fonts, and flexbox
2.  HTML Forms & User Input	• Create a registration form • Input types and attributes • Form validation	• Understanding form elements • Client-side form validation • Collecting and validating user input
3.  JavaScript Fundamentals & Async Programming	• Random color + Stop button • Live submission list • Counter app • Live weather via Fetch API • Add validations to Student Registration Form	• DOM events and higher-order functions • Promises and async/await • Fetching live data with the Fetch API
4.  React & Material UI	• Counter app in React • Redesign Registration form in React + MUI	• Components, props, and state • Building UI with Material UI • Creating a frontend server and starting it on a dedicated port
5.  MongoDB	• Install MongoDB and write queries	• Document databases and collections • CRUD queries • Modeling application data
6.  Express JS	• Backend and database connection • REST API for student data	• Routes, middleware, and controllers • Building REST API endpoints • Connecting Express to MongoDB
7.  Full-Stack Integration	• Full-stack Student Registration	• Connecting React to an Express API • CORS and environment variables • End-to-end form submission
8.  Group Project (Capstone)	• Design and plan • Build backend API • Build React frontend • Live demo	• Building a complete CRUD application • Working in a team end-to-end • Presenting a live project demo





CERTIFICATE

OF PARTICIPATION

This is to certify that Mr./ Ms

DUDE MANI SAI (II MCA)

for successfully completing the **MERN Stack Workshop** organized by **PurpleLane** in association with **Department of MCA, B.V. Raju College (A), Bhimavaram**, held from **July 21, 2026 to August 4, 2026**.

S. R. Krishnam Raju

DR. I R KRISHNAM RAJU
Principal | B V RAJU COLLEGE



Skill India
विद्यया ऽमृतमश्नुते



MSME
सूक्ष्म, लघु एवं मध्यम उद्यम
MICRO, SMALL & MEDIUM ENTERPRISES



K. Santosh Srinivas

KARROTU SANTOSH SRINIVAS
Co-Founder | PurpleLane



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