FULL STACK MERN TRAINING REPORT

AIM:

To equip second-year computer engineering students with in-depth knowledge and practical skills in Full Stack MERN (MongoDB, ExpressJS, ReactJS, NodeJS) technologies through a comprehensive, hands-on training program, enabling them to develop industry-ready applications and enhance their employability.

Objectives:

1. **Understand Front-End Development**
2. **Master JavaScript Fundamentals**
3. **Develop Back-End Expertise**
4. **Gain Proficiency in ReactJS**
5. **Hands-on Project Development**
6. **Enhance Placement Readiness**

Full Stack MERN Training Program

Date: 6th January 2025 – 12th January 2025
Time: 9:00 AM to 6:00 PM
Trainer: Mr. Jigar Pandya, Infinitech Training Institute
Participants: 65 Second-Year Computer Engineering Students

Training Overview:

The Full Stack MERN training program was conducted successfully from 6th to 12th January 2025 by Mr. Jigar Pandya, an expert trainer from Infinitech Training Institute. He is assisted by Mr. Ansh Gala.The training followed a meticulously planned curriculum covering front-end and back-end technologies, ensuring a balance between theoretical knowledge and practical implementation.

The program was conducted offline at the institute, with active participation and hands-on project development sessions for all 65 students.

- **Program Conduction :**

  - On 6th January,2025 program was started with inauguration ceremony. Inauguration is done by Lamp lightening and Saraswati Pooja. At that time principal Dr. R R bane, Vice-principal Mr. G A Bhosale , HOD [Computer Engineering] Mr. M S Khadilkar along with trainer Mr. Jigar Pandya were present.

  - Principal sir guided students by Explaining the importance of this training in their career. Also Mr. Jigar Pandya explained the path of the training.

  - **Day 1 was dedicated to HTML5, CSS3, and Bootstrap.**

  - Topics such as semantic elements, CSS selectors, Flexbox, Grid system, and Bootstrap breakpoints were covered in detail.

  - Students worked on creating responsive layouts using Bootstrap's grid and built small interactive components like modals, accordions, and sliders.

  - Practical exercises followed each concept to ensure students could implement what they learned.

  - **Days 2 and 3 focused on JavaScript fundamentals.**

  - Key concepts such as variables, operators, functions, arrays, loops, and event handling were explained.

  - Modern JavaScript concepts, including promises, async/await, and API calls using fetch, were taught.

  - Students wrote scripts and implemented small programs for better understanding.

  - **Days 4 and 5 covered Node.js, Express.js, and MongoDB.**

  - Topics included server setup, middleware, routing, API creation, and CRUD operations.

  - Integration with MongoDB was explained with practical exercises on connecting and querying the database.

  - **Days 6 and 7 focused on ReactJS.**

  - Core concepts such as component creation, state management, and hooks (useState, useEffect) were taught.

- Students practiced making API calls in React components and built dynamic web pages with routing functionality.

- Each day included hands-on project sessions where students applied their learning to build a functional web application.

- Also each day assignments were given to students as a homework.

- By the end of the program, **students completed a mini-project** demonstrating end-to-end development using the MERN stack.

- All participants received certificates upon completion of the training, recognizing their successful participation and skill development.
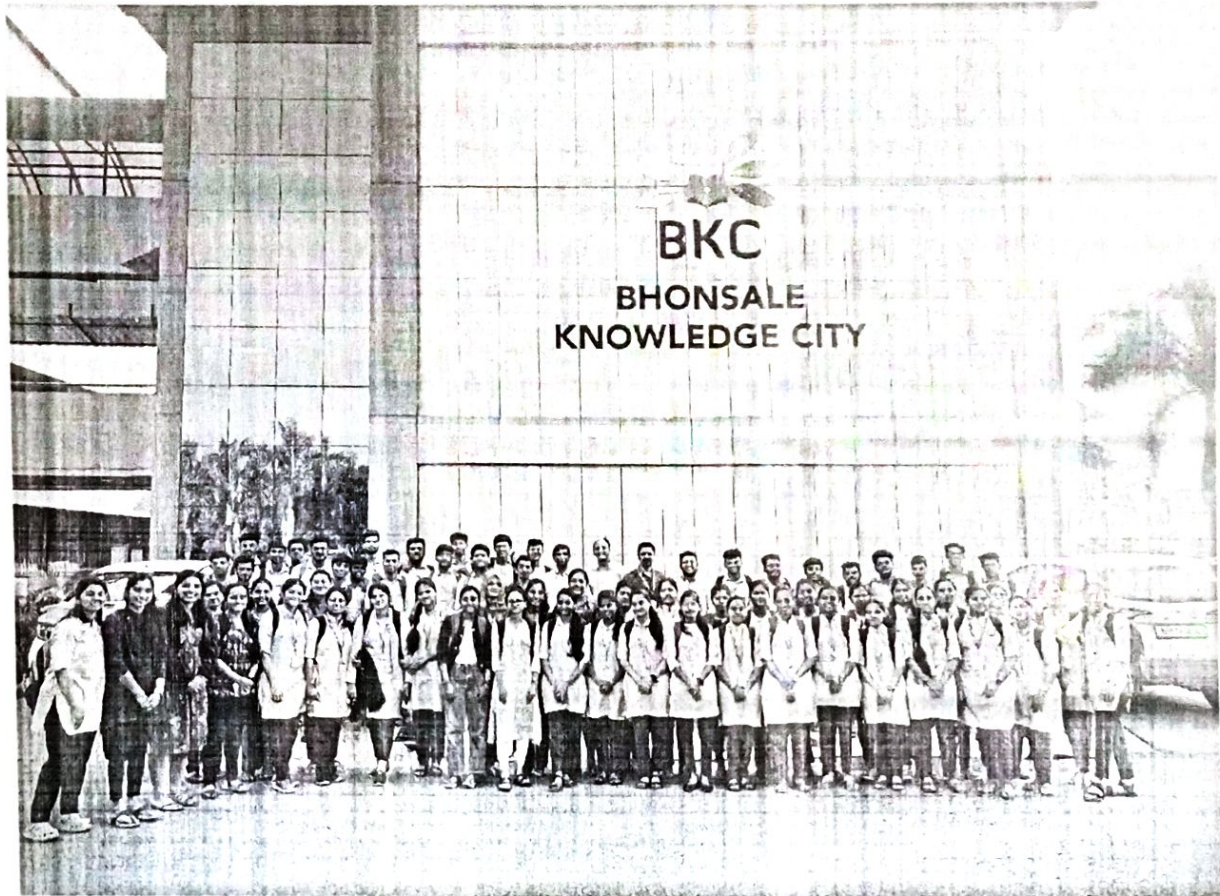
Glimpse of the training program
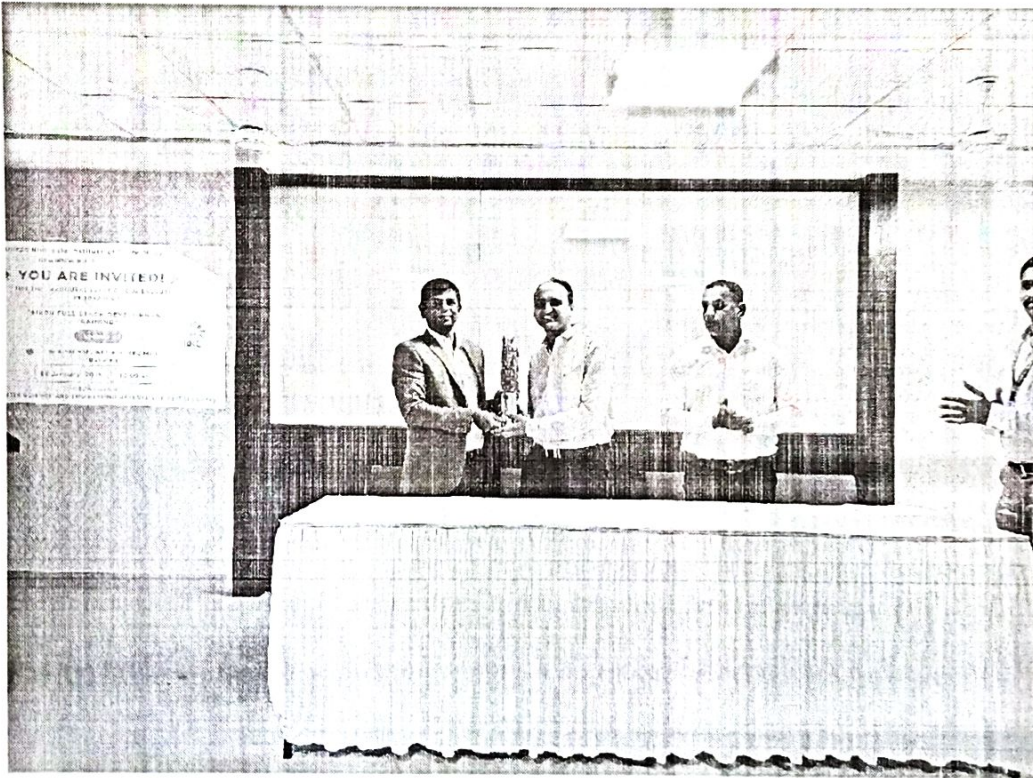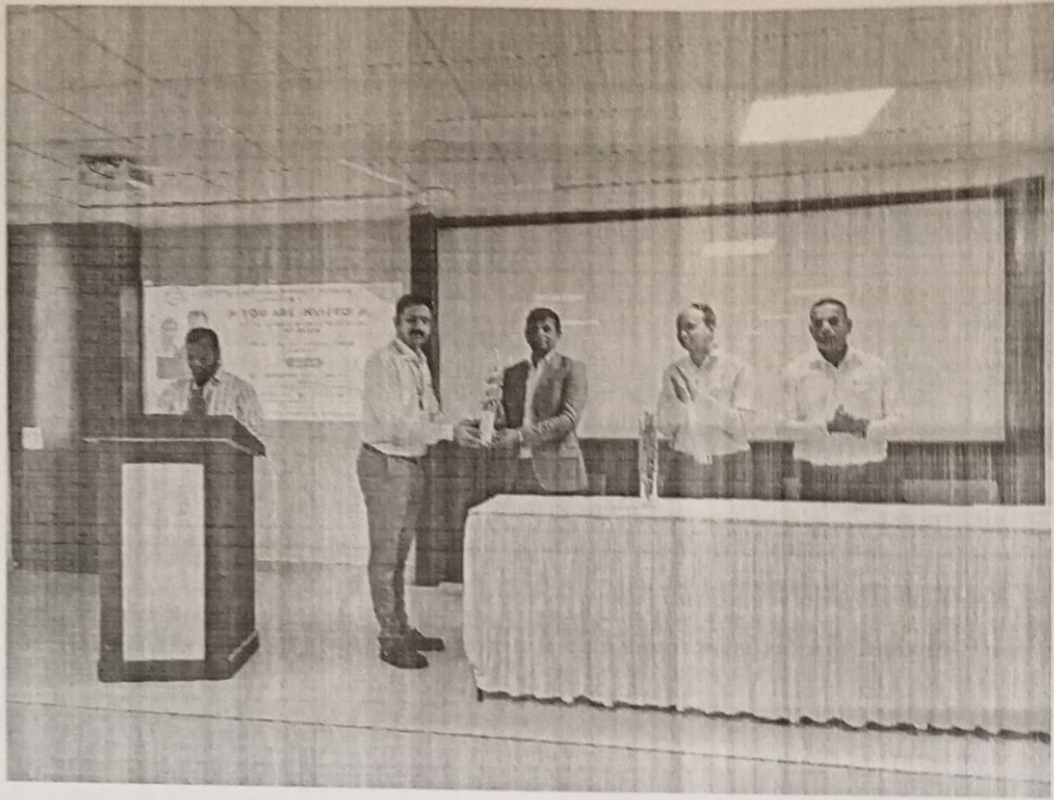
Conclusion:

The Full Stack MERN training program was executed successfully under the expert guidance of **Mr. Jigar Pandya**. All 65 participants actively engaged in the sessions, demonstrated substantial progress, and completed a functional project. The program achieved its aim of equipping students with industry-relevant skills, preparing them for their academic and professional careers.

14-1-2025

Program Coordinator

14-1-2025

HOD

HOD
COMPUTER SCIENCE & ENGG.
YBIT (DEGREE)

14.01.25

Principal

PRINCIPAL
YASHWANTRAO BHONSALE
INSTITUTE OF TECHNOLOGY