

A Report on Workshop
"Full Stack Web Development Bootcamp"
Organised by
Department of Computer Science & Engineering
on 19.10.2024



MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE
(UGC-AUTONOMOUS INSTITUTION)
Madanapalle - 517325, Anamayya Dist., Andhra Pradesh, India

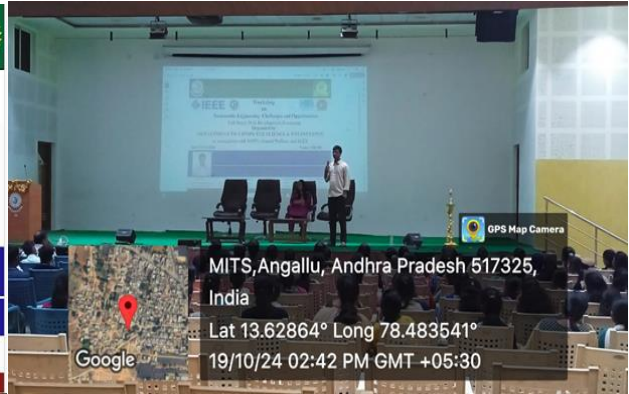
Workshop
on
Sustainable Engineering: Challenges and Opportunities
Full Stack Web Development Bootcamp
Organized by
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
in association with **MITS Alumni Welfare and IEEE**

Date 19-10-2024 TIME: 2:00 PM to 3:00 PM Venue: WB 308

Resource Person
Mr. Kovi Karthik
Full Stack Developer
Infobell IT - Bangalore.

Chief Patron: Dr. N. Vijaya Bharathi Choudhary, Secretary & Correspondent
Patron: Mrs. Keerthi Naidu, Executive Director
Program Chair: Dr. C. Venkatesh, Principal
Convener: Dr. M. Sreedevi, Professor & Head-CSE
Alumni Coordinator: Mrs. V. Geetha, Assistant Professor/CSE
Alumni Relations Officer: Dr. B. Kiran Kumar, Assistant Professor/CSE

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Report Submitted by: Mrs. V. Geetha, Assistant professor, Department of Computer Science & Engineering.
Resource Person Details: Mr. K. Karthik, Working as Full Stack Developer, Infobell IT, Bangalore.

Mode of Conduct: Offline

Time: 2:00 PM to 3:00 PM

Venue: WB308

Report Received on 07.11.2024.

The Department of Computer Science & Engineering organized a workshop on "Full Stack Web Development Bootcamp" for III B. Tech students.

The inauguration of the workshop started at 2:00 PM in the Auditorium. The dignitaries were Dr. M. Sreedevi, HOD—CSE; Mr. K. Karthik, Working as Full Stack Developer, Infobell IT, Bangalore; Dr. R. Kiran Kumar, Alumni Relationship Officer; and Mrs. V. Geetha, Department Alumni Coordinator.

The lecture was started with opening remarks by, Dr. M. Sreedevi who thanked Management for this great initiation of creating an opportunity to invite the Alumni members of the institute and enabling them to interact with the students and enlightening them with the current developments in the corporate world. Dr. R. Kiran Kumar has shown pleasure and promised to conduct many more future lectures for the students' benefit.

Mrs. V. Geetha introduced the speaker and invited him to share his valuable experiences to the students. The number of students who participated in the lecture were around 70.

Introduction to Full Stack Development:

Full stack development is the process of building both the front-end and back-end of an application or website. It's a methodology that emphasizes the interconnectedness of the different components of web and application development.

Topics:

- Overview of web development (Frontend vs. Backend).
- Role of a full stack developer.

Frontend Basics - HTML & CSS

Topics:

- Structure of HTML documents
- Styling with CSS
- Responsive design principles

Activities:

- Hands-on exercise: Create a simple webpage with HTML and CSS.

Introduction to JavaScript:

Topics:

- Variables, data types, and operators
- Functions and control flow

Activities:

- Coding exercises to practice JavaScript fundamentals.

DOM Manipulation:

Topics:

- Understanding the Document Object Model (DOM)
- Event handling in JavaScript

Activities:

- Build a simple interactive webpage using DOM manipulation.

Introduction to Node.js and Express

Topics:

- Overview of Node.js and its uses
- Setting up an Express server

Activities:

- Create a basic server and respond to client requests.

Working with Databases

Topics:

- Introduction to MongoDB
- Performing basic CRUD operations

Activities:

- Hands-on: Set up a MongoDB database and interact with it.

Final Project and Wrap-Up

Activities:

- Participants will work in pairs to integrate the frontend and backend components into a mini-project.
- Share and present projects briefly.
- Discuss next steps for further learning and resources.

Conclusion:

This bootcamp is designed to give participants a strong foundational understanding of full stack web development, enabling them to continue their learning journey in web technologies.



The outcome of the programme:

The program outcomes for students attending a workshop on “ Full Stack Web Development Bootcamp” could include several educational and skill-based benefits.

- Understanding of Web Development Fundamentals.
- Proficiency in HTML and CSS.
- JavaScript Basics.
- DOM Manipulation Skills.
- Database Interaction.
- API Development.

The session is completed at 3:00 PM, and he clarified the queries of enthusiastic young minds with great zeal during the interaction time.

The resource person was honored by a token of respectable appreciation by Dr. M. Sreedevi CSE – HOD, Dr. R. Kiran Kumar, Alumni Relation Officer, and all department faculty members.

Vote of Thanks:

Mrs. V. Geetha proposed a vote of thanks to the resource person, HOD and Alumni Relations Officer for attending the function. She extended her thanks to the Principal and the Management for their support in conducting the training.