



LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING (AUTONOMOUS)

Accredited by NAAC with 'A' Grade & NBA (Under Tier - I),
An ISO 21001:2018,14001:2015,50001:2018 Certified Institution
Approved by AICTE, New Delhi and Affiliated to JNTUK, Kakinada
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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Report on A One Day Guest Lecture on “Web Application Development Using Mean Stack” by ALUMNI STUDENT



LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING (AUTONOMOUS)
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L.B.Reddy Nagar, Mylavaram-521230, NTR District, Andhra Pradesh



Hearty Welcome
to

LBRCE ALUMNUS

Roll No:09761A0547 ,CSE Dept

Mr.K.SRIKANTH REDDY

Tech Lead

Applied Materials India Private Ltd

**COMPUTER SCIENCE AND ENGINEERING
ALUMNI ASSOCIATION OF LBRCE**



Event Type	:	A One Day Guest Lecture.
Date(s)	:	19 th August 2023.
Venue	:	Dr. Sarvepalli Radha Krishna Auditorium, Admin Block.
Resource Person	:	Mr.K.Srikanth Reddy, Tech Lead Applied Materials India Private Ltd
Convener(s)	:	Dr.D. Veeraiah, HoD, Department of CSE.
Coordinator(s)	:	Dr.Ch. Venkata Narayana, Professor, Dept of CSE
Co-coordinators	:	Mr.A.S.R.C. Murthy Sr.asst.prof,Dept of CSE Mr.S.Srinivasa Reddy, Sr.asst.prof,Dept of CSE
Alumni Coordinators	:	O.Venkata Siva,Asst.prof,Dept of CSE

Target Audience : B. Tech III Sem CSE.

Total no. of Students : 180 Students.

Objective of the Event:

The objective of a MEAN Stack guest lecture is to provide participants with a comprehensive understanding of MEAN Stack and how to develop web applications using its components. The MEAN Stack is a popular technology stack for building modern web applications.

Outcome of the Event:

Upon completing a MEAN Stack workshop, participants obtained the following outcomes:

Understanding of MEAN Stack Architecture: Participants will gain a clear understanding of the components that make up the MEAN Stack (MongoDB, Express.js, Angular, Node.js), their roles, and how they work together to create modern web applications.

Full-Stack Development Skills: Participants will acquire the skills needed to develop both the front-end and back-end components of a web application, enabling them to create end-to-end solutions.

Hands-on Experience: Through practical exercises and projects, participants will gain hands-on experience in building web applications using the MEAN Stack. This experience is crucial for reinforcing the concepts learned during the workshop.

CRUD Operations: Participants will be proficient in performing CRUD (Create, Read, Update, Delete) operations on a database using MongoDB, allowing them to manage data effectively in their applications.

API Development: Participants will be able to design and create RESTful APIs using Express.js, enabling them to expose functionalities that can be consumed by the front-end.

Front-end Development with Angular: Participants will learn how to create dynamic, interactive, and responsive user interfaces using Angular, one of the leading front-end frameworks.

Integration Skills: Participants will understand how to integrate the front-end and back-end components of their application, allowing data to flow seamlessly between them.

Authentication and Authorization: Participants will be familiar with implementing user authentication and authorization mechanisms, enhancing the security of their applications.

Database Management: Participants will have the skills to model and manage data using MongoDB, a NoSQL database, and will be able to handle complex queries.

Deployment Knowledge: Participants will learn about deployment strategies for MEAN Stack applications, including options for hosting and server configuration.

Best Practices and Coding Standards: Participants will be introduced to industry best practices, coding standards, and guidelines for MEAN Stack development, ensuring the production of maintainable and efficient code.

Problem-Solving and Debugging: Participants will develop problem-solving skills by troubleshooting issues that commonly arise during MEAN Stack development.

Collaboration and Teamwork: If the workshop involves group projects, participants will gain experience in collaborating with others, simulating real-world development scenarios.

Adaptability to New Technologies: Participants will have the foundational knowledge required to explore and adapt to emerging technologies within the MEAN Stack ecosystem.

Portfolio and Skill Showcase: By the end of the workshop, participants will have completed projects that they can showcase in their portfolios, demonstrating their proficiency in MEAN Stack development to potential employers or clients.

Overall, the outcomes of a MEAN Stack workshop empower participants to confidently build dynamic and feature-rich web applications using the MEAN Stack technologies.

Description of the Event:

The guest lecture inauguration took place on August 19, 2023, with Dr. K. Appa Rao, the Principal, Dr. M. Srinivasa Rao, the Dean of Academics, Dr. D. Veeraiah, the Head of the Department of Computer Science and Engineering (CSE) acting as the workshop's conveners. The inauguration was graced by the presence of the workshop's Resource Person, Mr. K.Srikanth Reddy, who is a Tech Lead Applied Materials India Private Ltd.

The guest lecture commenced with the Resource Person, Mr. K.Srikanth Reddy, taking the lead. a distinguished expert in the field of web application development using full-stack and mean-stack, delved into the heart of the workshop's theme: web application development using mean stack.

During this pivotal phase of the lecture, Mr. K.Srikanth shared his profound insights and extensive knowledge about the practical implementation of mean stack, particularly focusing on the potent capabilities of java script and reactJS. He skillfully navigated through the intricacies of these advanced methodologies, providing the attendees with an in-depth understanding of their significance and applicability across various domains.

With a deep resonance of expertise and a flair for pedagogical clarity, Mr. K.Srikanth elucidated real-world instances where nodeJS and reactJS techniques have been pivotal in application development. He explored diverse applications, such as e-commerce, social media and beyond, showcasing the versatile power of these techniques in transforming raw data into actionable insights.

Throughout his discourse, Mr. K.Srikanth intertwined theoretical concepts with practical examples, ensuring that the participants not only comprehended the underlying principles but also grasped how to execute them effectively. By showcasing concrete use cases, he bridged the gap between theory and application.

His engaging teaching style and interactive approach fostered a conducive learning environment, encouraging participants to ask questions, seek clarifications, and actively participate in discussions. By the end of this enlightening session, students not only gained a broader perspective of web application development using mean stack.

In essence, the Resource Person, Mr. K.Srikanth, kickstarted the workshop by providing a comprehensive and insightful overview of Full stack development. His expertise ignited a spark of curiosity and eagerness among the attendees, setting the stage for a knowledge-rich and hands-on learning journey throughout the remainder of the lecture.





Impact Analysis:

- ❖ The completed Guest Lecture on “Web Application Development Using Mean Stack” has left a profound impact on participating students.
- ❖ They've deepened their understanding of web application development, honed practical skills in Java Script, nodeJS, reactJs frameworks, and gained insights into diverse applications.
- ❖ Students are inspired with Alumni interaction.
- ❖ The Lecture emphasis on best practices and inspiration to further explore the field contributes to academic and professional growth.

Feedback & Suggestions:

Content Depth: The Lecture content was super informative, covering Mean Stack technology in detail.

Hands-on Learning: The practical sessions were awesome; they helped us put theories into action with real data.

Expert Facilitator: Mr. Srikanth really knew his stuff; he explained complex things so well and made learning interactive.

Real-world Examples: The workshop's use of real examples showed us how to build different types of web applications.

Networking Chance: Meeting experts and other students was cool – we could learn beyond the lecture and maybe work together.

Suggestions:

More Time: It would have been great if the lecture was longer, maybe an extra day, to dive deeper into topics.

Adapted Difficulty: Some sessions could have been adjusted to our different skill levels to keep everyone on track.

Interactive Fun: More group discussions or hands-on group activities would have kept us engaged and excited.

Tougher Challenges: If there were harder real-life problems to solve, it would challenge us even more.

Extra Materials: Sharing materials like code samples afterward would help us keep practicing and learning.

Press Report :

సాక్షి

జాప్ స్క్రిప్ట్ ఫ్రేమ్ వర్క్ ఆధారంగా వెబ్ అప్లికేషన్ అభివృద్ధి

మైలవరం: జాప్ స్క్రిప్ట్ ఫ్రేమ్ వర్క్ ఆధారంగా వెబ్ అప్లికేషన్ అభివృద్ధి చేయవచ్చని, నాలుగు కీలక సాంకేతికాలైన మాంగో డిబి ఎక్స్ప్రెస్, కోణీయ, నోడెలను ఉపయోగించి స్టాక్ లేయర్లను రూపొందించవచ్చని టీమ్ లీడ్ ఇన్ అప్లెడ్ మెటీరియల్స్ ఇండియా ప్రెవేట్ లిమిటెడ్ కంపెనీ ప్రతినిధి, పూర్వ విద్యార్థి కే శ్రీకాంత్రెడ్డి తెలిపారు. మైలవరం లకిరెడ్డి బాలిరెడ్డి ఇంజనీరింగ్ కళాశాలలో సీఎస్ఈ విభాగం వెబ్ అప్లికేషన్ డెవలప్మెంట్ యూసింగ్ మీన్ స్టాక్ అనే అంశంపై శనివారం శిక్షణ కార్యక్రమం జరిగింది. ఈ సందర్భంగా శ్రీకాంత్రెడ్డి మాట్లాడుతూ వెబ్ అప్లికేషన్ డెవలప్మెంట్ యూసింగ్ మీన్ స్టాక్ ప్రాముఖ్యతలను క్షుణ్ణంగా వివరించారు. కళాశాల ప్రిన్సిపాల్ డాక్టర్ కే అప్పారావు మాట్లాడుతూ కళాశాలలో పూర్వ విద్యార్థులు ఇస్తున్న శిక్షణ ద్వారా



శిక్షణ కార్యక్రమంలో ప్రసంగిస్తున్న శ్రీకాంత్రెడ్డి

విద్యార్థులు ప్రపంచ స్థాయి కంపెనీలలో పోటీ పడగల నైపుణ్యం సంపాదించగలరని తెలిపారు. పూర్వ విద్యార్థుల ద్వారా ప్రస్తుత విద్యార్థులు ప్రేరణ పొందుతారన్నారు. కార్యక్రమంలో సీఎస్ఈ విభాగాధిపతి డాక్టర్ డి వీరయ్య, డాక్టర్ సీహెచ్ వెంకటనారాయణ కోఆర్డినేటర్గా వ్యవహరించారు.

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D. Venkatesh

(HOD,CSE)