



LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Report on One-Day Guest lecture

On

“Design And Development of Customisable And Configurable OS Framework”

Event Type : One Day Guest lectue
Date : 31-03-2026
Time : 6:30 PM to 9:00PM
Mode : Online
Organized By : Dept. of CSE, LBRCE, Mylavaram, India
Resource person : **Dr.S.R.N.Reddy**
Convener : Dr. **Dr.S.Nagarjuna Reddy**, Professor and HOD of CSE
Coordinators : Dr.CVN Reddy,Dr.K.sunil,Dr.B.Swanth,Dr.K.Venkatarao,Mrs.M.Baby Anusha,Mrs.P.M.Kamala kumari Mr O.Venkata Siva
Target : IV-Sem Students (CSE)
Total Number of students: 450

1. Objective:

The objective of the guest lecture is to provide students with a clear understanding of the design and development of customizable and configurable operating system frameworks. It aims to introduce key concepts of operating system architecture and demonstrate how systems can be tailored to meet specific user and application requirements. The lecture also focuses on bridging the gap between theoretical knowledge and practical implementation by discussing real-world challenges, tools, and techniques used in OS development. Ultimately, it seeks to enhance students' knowledge of system-level programming and inspire them to explore advanced areas in operating systems.

2. Outcome of the event:

By the end of the guest lecture, students gained a clear understanding of customizable and configurable operating system frameworks and their importance in modern computing. They developed insight into OS architecture, design principles, and system-level programming concepts. Students were able to relate theoretical knowledge to practical implementation through real-world examples and case studies discussed during the session. The lecture also enhanced their awareness of current trends, tools, and challenges in operating system development, motivating them to explore advanced topics and research opportunities in this field.



3. Description of the event:

The guest lecture on "Design and Development of a Customizable and Configurable OS Framework" was conducted for IV Semester B.Tech CSE students to provide insights into advanced operating system concepts. The session was delivered by an expert in the field, who explained the fundamental principles of operating system design, including modularity, flexibility, and configurability. The speaker discussed how modern operating systems can be customized to meet specific user and application requirements, supported by real-world examples and case studies.

The lecture also covered the tools, techniques, and challenges involved in developing such frameworks, helping students connect theoretical concepts with practical implementation. An interactive session was held where students actively participated by asking questions and clarifying their doubts. Overall, the event was informative and engaging, enhancing students' understanding of system-level design and encouraging them to explore advanced topics in operating systems.

4. Impact Analysis:

The guest lecture had a significant positive impact on the students by enhancing their understanding of advanced operating system concepts, particularly in the area of customizable and configurable OS frameworks. It helped students bridge the gap between theoretical knowledge and real-world applications, thereby improving their analytical and problem-solving skills. The session also increased students' interest in system-level programming and encouraged them to explore research and development opportunities in operating systems.

Furthermore, the lecture provided exposure to current industry practices, tools, and challenges, which contributed to better academic and professional preparedness. The interactive nature of the session promoted active learning and critical thinking among students. Overall, the event played a vital role in strengthening the technical knowledge and confidence of the participants.

5. Feedback and Suggestions:

Feedback:

- Students appreciated the clear and effective explanation of concepts.
- Real-world examples helped in better understanding of the topic.
- The lecture was informative and relevant to the current curriculum.
- Interactive session was engaging and helped in clarifying doubts.
- Speaker's knowledge and presentation style were highly appreciated.

Suggestions:

- Conduct more guest lectures on advanced and emerging technologies.
- Include live demonstrations or hands-on sessions.
- Increase the duration of the lecture for deeper understanding.
- Provide additional study materials or references.
- Organize follow-up sessions for practical exposure.

Table 1: IDU Survey

a) Existing operating systems continue.

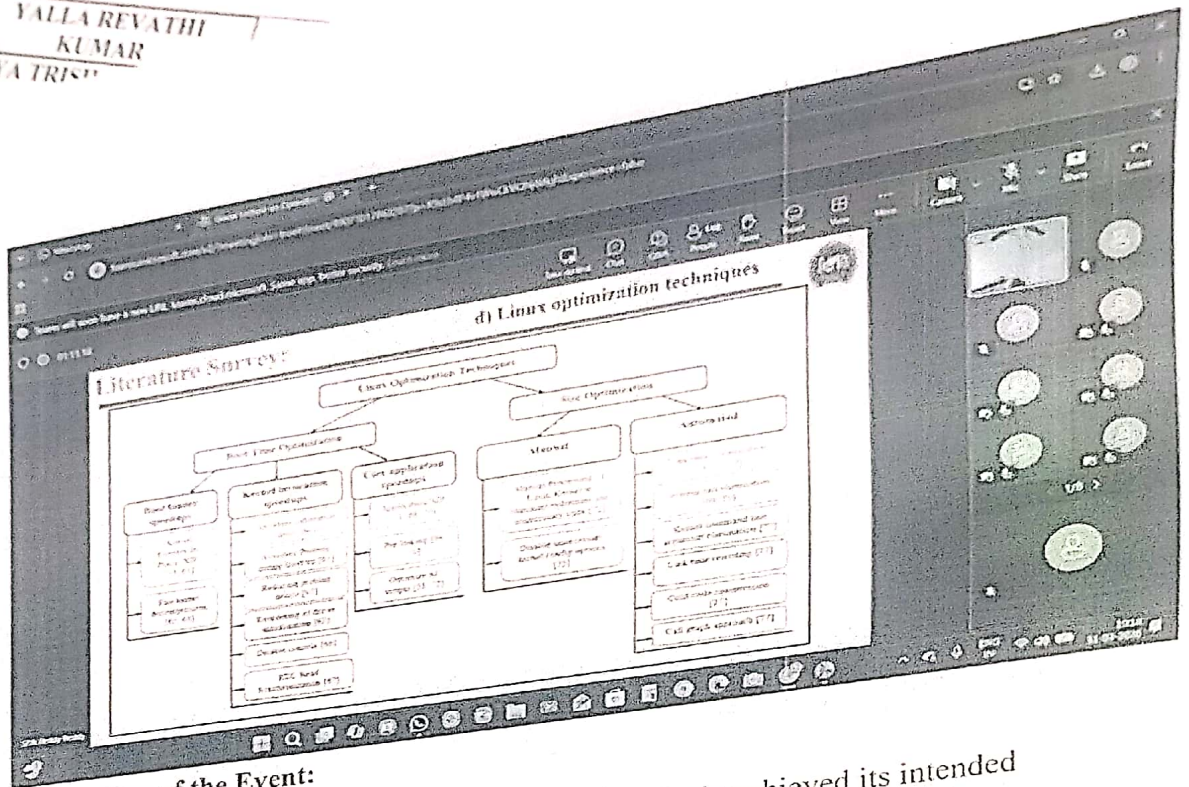
(Note: x, y, z as defined in previous slide Table)

Support of basic operating system requirements

- Majority of the existing operating systems continue to support basic requirements for development environments (IDE)
- Majority of the existing operating systems have platform support for ARM processors
- Very few operating systems have full support for real-time requirements

Meeting terminated
 Started automatically per the meeting organizer's settings. Edit meeting

YALLA REVATHI
KUMAR
IYAR TRISA



6. Conclusions of the Event:

The guest lecture was successfully conducted and effectively achieved its intended objectives. It provided students with valuable insights into customizable and configurable operating system frameworks, helping them understand both theoretical concepts and their practical applications. The session enhanced students' interest in system-level programming and operating system development. The interactive discussions further clarified their doubts and encouraged active participation. Overall, the event was informative, engaging, and contributed significantly to the academic and professional development of the students.


HOB
(Dr.S.Nagarjuna Reddy)