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Add-on Lecture on Operating Systems

The Department of Information Science and Engineering conducted an **Add-on Lecture** titled **Operating Systems** on **24-10-2025** at **10.00 am to 12.00 pm**, in **Seminar Hall 4.**

The Add-On Lecture on Operating Systems was an insightful academic session that covered a wide range of foundational OS concepts, with special emphasis on memory management and virtual memory. The lecture included both theoretical explanations and practical demonstrations that illustrated how system resources and processes are managed in real-time environments. Visual aids and curated resources were used to facilitate deeper understanding, and students actively participated through interactive discussions and question-answer sessions. The session provided a strong conceptual grounding and was well-received for its clarity and relevance to core computing principles.

Objectives of the Event

The primary objectives of the event were:

- To enhance students' understanding of core OS concepts, including memory management, virtual memory, and process handling.
- To bridge the gap between theory and practice by demonstrating how operating systems manage system resources in real-time.
- To introduce students to advanced OS mechanisms such as paging, segmentation, and process scheduling.
- To strengthen students' analytical skills by exploring how operating systems handle complex tasks like multitasking and resource allocation.
- To explain the role of the operating system in optimising CPU performance through efficient process scheduling and load balancing techniques.

Event Overview

The event began at 10.00 am with a welcome address by Vasudev Krishna, followed by an engaging session address by **Mr. Prabhu Barrow Selvaraj** . The presentation

covered key areas such as OS basics, storage, CPU performance, memory management, virtual memory, and cache memory. A total of 120 students actively participated in this event.

Figure 1: Tech Talk

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Figure 2: Knowledge Boost

Outcomes and Impact

- The students gained a clear understanding of key OS concepts, especially memory management and virtual memory.
- The students were able to connect theoretical knowledge with practical system-level operations.
- The session improved the ability of students to analyse CPU performance and storage management techniques.

Conclusions

The Add-On Lecture on Operating Systems concluded successfully, providing students with a strong conceptual and practical foundation in key OS topics such as memory management, virtual memory, and system resource handling. The session effectively combined theory with demonstration, fostering deeper understanding and engagement. The students gained enhanced analytical skills, valuable learning resources, and greater confidence in applying the principles of the operating system to real-world computing scenarios. In general, the event achieved its academic objectives and contributed meaningfully to the technical growth of students.

Report by: Prof. C.S.Kavitha

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