KPR Institute of Engineering and Technology

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CS063

NBA Accredited
(CSE, ECE, EEE, MECH, CIVIL)

DESIGN OF MODERN OS

Event No	CS063
Organizing Department	Computer Science and Engineering
Associate Dept. | NSC	Computer Science and Engineering
Date	27/04/2023
Time	03:30 PM to 04:30 PM
Event Type	Guest Lecture
Event Level	Dept. Level
Venue	Galaxy Hall
Meeting Medium	
Meeting Link	https://us06web.zoom.us/j/85400832421?pwd=Y3ZGK2h2cU5GeTl5c2IyazNzK2Vxdz09
Total Participants	173
Faculty - Internal	4
Students - Internal	169

Related SDG

Resource Persons

Sl	Type	Name	Designation	Company	Email	Phone
1	Resource Person	Ramalakshmi K	Associate Professor	Alliance College of Engineering and Design	ramalakshmivenkatesan@gmail.com	xxxxxxxxxx

Involved Staffs

| Sl	Name	Role
1	Manoj Kumar S	Coordinator
2	Aswathy R H	Coordinator
3	Suresh P	Coordinator
4	Yuvaraj N	Convenor

Outcome

The students can understand the
Overview of modern operating systems
Kernel architecture and design
AI Based OS
Process nd memory management in modern OS
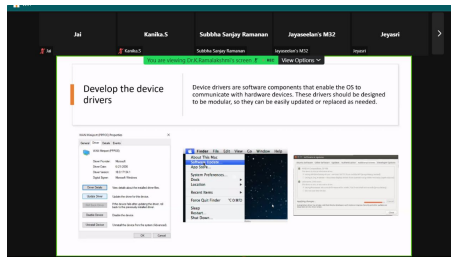OS interfacing

Event Summary

A guest lecture on modern operating systems could cover a wide range of topics, including the Overview of modern operating systems include a brief history of operating systems, their evolution over time, and the current state of modern operating systems. Kernel architecture and design delve into the design and architecture of the kernel, including its role in managing resources, handling interrupts, and scheduling processes. Different states of processes and how they are managed by the operating system can be discussed. The lecture includes context switching, scheduling algorithms, and interprocess communication. She focused on how modern operating systems manage memory, including virtual memory, page replacement algorithms, and memory protection. The organization and management of files and directories in modern operating systems, including how they are stored on disk and accessed by applications. How modern operating systems manage device drivers, including how they interact with hardware, and how they handle interrupts and exceptions can be discussed. She cover the various security mechanisms in modern operating systems, including access control, authentication, and
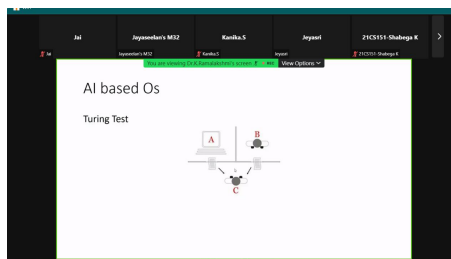
encryption. Modern operating systems (OS) use graphical user interfaces (GUI) to interact with users. These interfaces consist of windows, icons, menus, and pointers, which allow users to interact with the system using a mouse, keyboard, or other input devices.GUIs provide an intuitive way for users to interact with the operating system and the applications that run on it. GUIs allow users to easily open and manage files, launch applications, browse the web, and perform other tasks. They also allow users to customize the appearance of their desktop and other aspects of the system to suit their preferences.Modern operating systems also provide multiple ways for users to interact with the system, including command-line interfaces (CLI) and voice-based interfaces. CLI provides a way for users to interact with the system using text commands, which can be more efficient and faster for advanced users. Voice-based interfaces, on the other hand, allow users to interact with the system using natural language, which can be more intuitive and easier for some users. Overall, a guest lecture on modern operating systems could provide valuable insights into the design and architecture of modern operating systems and their various components.
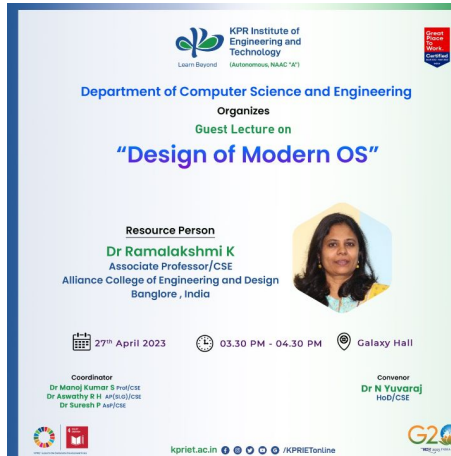
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