

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

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## INDUSTRY EXPERT TALK EVEN SEM (2024)

Subject: Industry Expert Talk on "Diving into Linux device driver programming" Expert name: Mr. S. Dinakaran Audience: 4<sup>a</sup> Semester Students Date: 16-07-2024(12:00PM-1:00 PM)

The Department of Information Science and Engineering (ISE) had organized an Industry expert talk on " **Diving into Linux device driver programming**" On 16<sup>th</sup> July 2024 for the 4<sup>th</sup> semester students.

The event aimed to explore writing a software for the product using Linux device driver programming. On July 16, 2024, the department hosted Mr. S. Dinakaran a distinguished senior software engineer from Mirafra, as the keynote speaker. Dr. Vandana C.P. Associate Professor, Head of the ISE department, inaugurated the event and welcomed Mr. S. Dinakaran. She emphasized the importance of Linux device driver programming in corporate world. The event was coordinated by Prof. Mrs.K. Thamarai Selvi Assistant Professor in the ISE department, who introduced Mr. S. Dinakaran to an enthusiastic audience comprising fourth-semester students.

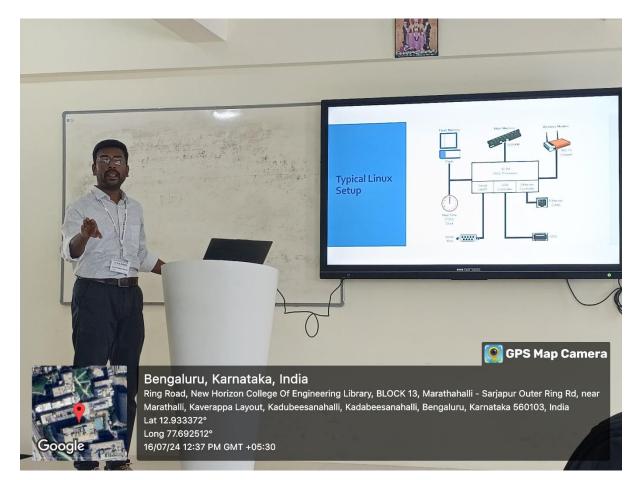
Mr. S. Dinakaran Jain delivered an insightful presentation on the Diving into Linux device driver programming. He discussed Real Life Use of Linux Device Driver in various sectors such as Gaming, Routers, Switches, Driverless Car, super computer. He discussed about current job opportunities for Linux device driver programming in corporate world.

The event concluded with Dr. Vandana C.P., presenting a memento to Mr. S. Dinakaran in appreciation of his valuable contributions to the field. This event encapsulates the essence of the Department of ISE's initiative in fostering knowledge exchange and innovation within the academic community.



## VARIOUS SESSIONS THROUGHOUT PROGRAM:

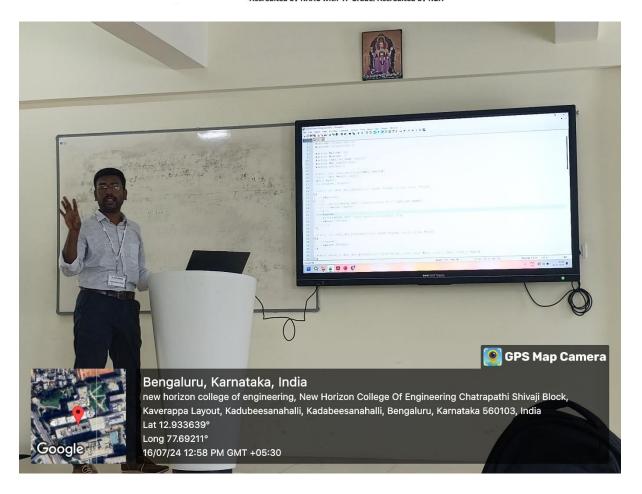
















## **TOPICS COVERED:**

- Real Life Use of Linux Device Driver
- Current job opportunities
- Typical Linux Setup and Linux Boot Sequence
- Relationship between applications, the kernel, and hardware
- Role of a Linux device driver
- Device Driver Types
- Loadable Kernel Module
- Beagle Bone Black
- AM335x SoC
- Network Device Driver Concepts
- Skills needed to learn Linux device driver programming



Guest Talk Coordinator: K. Thamarai Selvi

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