



Department of Electronics & Communication Engineering

2023-24

SDSC SHAR(ISRO):

The **Electronics and Communication Engineering (ECE) Department** of Priyadarshini Institute of Science and Technology for Women organized an industrial visit to the Satish Dhawan Space Centre at Sriharikota on **09 November 2023**. The visit aimed to provide students with practical exposure to India's space research and satellite launch operations conducted by the Indian Space Research Organisation.

During the visit, students learned about launch vehicle technology and the infrastructure required for satellite missions. They were introduced to important facilities such as launch pads, mission control centres, rocket integration units, and sounding rocket launch systems. ISRO officials explained the processes involved in rocket assembly, satellite launch preparation, and mission monitoring.

The visit provided valuable insights into India's achievements in space exploration and helped students understand the practical applications of space technology. The interaction with scientists inspired the students to develop interest in research and careers in the fields of electronics, communication, and aerospace engineering.





Workshop on “RF-Microwave Measurements using VNA and SA”

Date: 22-02-2024 to 23-02-2024

A two-day workshop on “RF-Microwave Measurements using VNA and SA” was conducted from 22 February 2024 to 23 February 2024 to provide students with practical knowledge of RF and microwave measurement techniques.

The workshop focused on the fundamentals of RF and microwave engineering and the use of advanced instruments such as Vector Network Analyzer (VNA) and Spectrum Analyzer (SA) for testing and measurement. The resource person explained the working principles of these instruments and their applications in analyzing RF components and communication systems.

Participants gained hands-on experience in measuring parameters such as frequency response, gain, return loss, and signal spectrum using the VNA and SA. The workshop also highlighted the importance of accurate measurements in the design and testing of RF and microwave circuits.

The program was highly informative and helped students understand practical aspects of RF measurements and microwave system analysis, enhancing their technical knowledge and laboratory skills.

Workshop on “VLSI Devices and Circuits for AI Applications”

Date: 24-11-2023 to 25-11-2023

A two-day workshop on “VLSI Devices and Circuits for AI Applications” was conducted from **24 November 2023 to 25 November 2023** to provide students with knowledge about the integration of VLSI technology with artificial intelligence applications.

The workshop focused on the fundamentals of VLSI devices, circuit design, and their role in implementing AI-based hardware systems. The resource person explained how specialized VLSI circuits are used to accelerate artificial intelligence and machine learning algorithms.

Participants were introduced to concepts such as low-power VLSI design, hardware accelerators, and AI chip architectures used in modern computing

Estd: 2009

JNTUH College Code: 6C

An ISO 9001:2015 Certified Institution

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systems. The sessions also highlighted the importance of efficient circuit design for improving the performance of AI-based applications.

The workshop was informative and provided valuable insights into the emerging role of VLSI technology in artificial intelligence, encouraging students to explore research and career opportunities in this interdisciplinary field.