Training Programme
on
Internet of Things (IoT)
22nd Feb -25th Feb, 2024

A three day's training program on Internet of things was scheduled for the students of 2nd year ECE and EEE students jointly by ECE, EEE and ISTE chapter MSIT from 22nd -25th Feb. 2024 by Prof. Neeru Rathee, Dr. Shaifali Madan Arora and Dr. Nidhi Gupta. The training session was specifically designed for 161 second-year students from the Electrical and Electronics Engineering (EEE) and Electronics and Communication Engineering (ECE) departments. The seminar provided an enriching experience, equipping students with essential knowledge and skills in these cutting-edge technologies.

On February 22nd, 2024, Professor Neeru Rathee conducted an insightful and comprehensive training program in Seminar Room 206, focusing on the fundamentals of Internet of Things (IoT), sensors, and Arduino basics. The topics to be covered and schedule will be as follows:

S.NO.	DAY	TITLE	Tasks	DATE
1	Day 1	Introduction To IOT, Basic of Communication, Basic sensor , Introduction to Arduino, IDE, Sensor Interface, Calibration and sensing	Demonstrate different type of sensors used in IoT	22nd February 2024 (2:30- 3:30pm)
2	Day 2	Arduino Interface, Actuators, LED, Stepper, Servo, Communication – smart city goals	Demonstrate how to connect sensors to a microcontroller	23rd February 2024 (2:30- 3:30pm)
3	Day 3	Introduction to Rpi , Programming with Python, Interfacing sensors and Actuators	Demonstrate how to link IoT data on a cloud platform	24th February 2024 (12:30-2:30-3:30pm)

Professor Neeru Rathee, an expert in the field, delved into the intricacies of IoT, elucidating its applications and significance in the current technological landscape. The session also covered sensor technology, shedding light on various types of sensors, their functionalities, and real-world applications. Furthermore, the basics of Arduino, a widely used open-source hardware and software platform, were elucidated, offering students a hands-on understanding of its programming and implementation.

The training program was structured to cater to the diverse learning styles of the participants, combining theoretical insights with practical demonstrations. Dr. Shaifali Madan Arora and Dr. Nidhi Gupta engaging teaching style and profound expertise captivated the students' interest, fostering a conducive learning environment. The seminar room, equipped with necessary audio-visual aids, facilitated effective communication of complex concepts, ensuring that the students grasped the subject matter thoroughly.

Throughout the training session, interactive discussions and Q&A sessions were encouraged, providing students with an opportunity to clarify doubts and deepen their understanding. The program not only served as an academic supplement but also as a platform for fostering enthusiasm and curiosity among the participants regarding the potential applications and innovations in IoT, sensors, and Arduino.
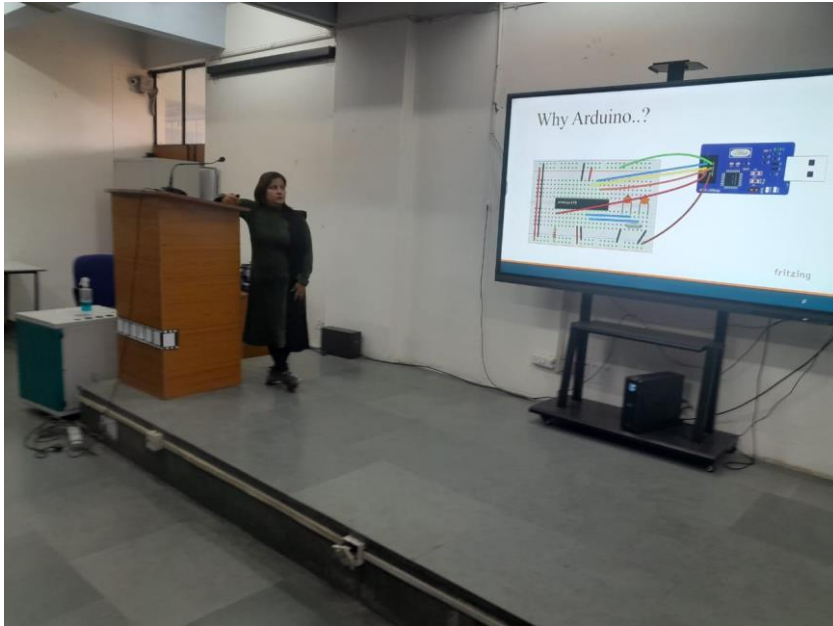
In conclusion, the training program conducted by Professor Neeru Rathee , Dr. Shaifali Madan Arora and Dr. Nidhi Gupta on February 22nd, 2024, in Seminar Room 206 was a resounding success. It played a pivotal role in enhancing the knowledge and skills of 161 second-year students from the ECE and EEE departments, setting a solid foundation for their exploration and engagement with IoT, sensors, and Arduino technologies. The event was a testament to the commitment of the academic institution towards providing holistic and forward-looking education to its students.