Amity School of Engineering & Technology,

National Workshop

"Design and Development of IoT Based Applications"

16th September 2021

Department of Electronics & Communication Engineering of Amity School of Engineering and Technology, Amity University Madhya Pradesh Gwalior organized an online National Workshop titled "Design and Development of IoT Based Applications" on 16th September 2021 from 11:30 am to 1:00 pm. The talk was delivered by eminent speaker **Mr. Pranav Tyagi,** working as Vice President, SENSEnutsIoT Suite & Smart City Solutions and Director & Co-Founder of Eigen Technologies Pvt Ltd, New Delhi. The online live demonstration of IoT was delivered by **Mr. Ram Niwas,** working as a Firmware Engineer in Eigen Technologies Pvt. Ltd., Delhi. The workshop emphasized on the Potential thrust areas like Internet of Things (IoT), industrial internet of things (IIOT), cloud computing, cognitive computing and artificial intelligence with live online demonstration of Internet of Things (IoT). The workshop was organized on Zoom platform online with an objective to meet the learning objectives of Internet of Things (IoT) and how they are significant for modern industries and update the participants about Internet of Things (IoT) for the development of modern advanced devices.

Registrations and Participation.

Approximately 426 participants from various countries around the globe registered for the event and 326 participants attended the event.

Session 11:30AM to 1:00 PM

The session was moderated by Ms. Rinkoo Bhatia, Assistant Professor, Department of Electronics & Communication Engineering, She initiated the session by extending formal welcome to all the participants, speaker, Mr.Pranav Tyagi, Hon'ble Vice Chancellor Lt. Gen. V.K. Sharma, Pro Vice-chancellor Prof (Dr) M.P. Kaushik and Maj Gen (Dr) SC Jain, VSM** (Retd) Director ASET by giving introduction of speaker to the participants.

Opening Remarks of the session given by the Hon'ble Vice Chancellor Lt. Gen. V.K. Sharma. He explained the basic concepts of about Internet of Things (IoT) for various practical applications in modern industry. **Mr.Pranav Tyagi**initiated his session by giving introduction with live online demonstration of Internet of Things (IoT). Further he progressed his talk by discussing the different practical applications and advantages of Internet of Things (IoT) like Environment monitoring, Home Automation, Agriculture Monitoring, Industrial Control, Smart Cities, IoT and Embedded Systems, IoT and Security, Big Data and Analytics etc. **Mr. Ram Niwas** demonstrated SENSEnuts Radio Modules and various types of Sensors involved in Agricultural project associated with Wireless Sensor Network (WSN). He also suggested different research areas in the field of Wireless Sensor Network and IoT using SENSEnuts. SENSEnuts is useful in real world Scenario where user can test algorithms on real devices instead of testing them on some simulators. User can write algorithms, program the real motes according to the algorithm and check the performance of motes in different conditions. This way, all the assumptions in the simulation environment are automatically overruled as the data transfer between the devices take place through the actual medium, i.e. air with all available interferences. The workshop was followed by question answer session which was taken up by Ms. Rinkoo Bhatia, Assistant Professor, Department of Electronics & Communication Engineering, moderator of the event. The summary of event and Vote of Thanks was delivered by Prof (Dr.) Raghavendra Sharma, Professor & Head, Department of Electronics & Communication Engineering and The event was supported by Panel lists Hon'ble Vice Chancellor Lt. Gen. V.K. Sharma, Pro Vice-chancellor Prof (Dr) M.P. Kaushik and Maj Gen (Dr) SC Jain, VSM** (Retd) Director ASET. Workshop was appreciated by all the participants.