<u>REPORT ON A value added course on</u>
"WIRELESS MOBILE NETWORK"

The Department of ECE conducted a value added course on **Wireless Mobile Network** from **08/04/2019 to 12/04/2019 in Association with Lets Learn.Guru, Nellore,** Andhra Pradesh. The Resource persons **Mr. K. Sai Kiran Kumar** handled classes to the students for five days. The II B.Tech students from the ECE department had attended for this value added course.

Head of The Department Dr. K. Murali Garu giving information about Wireless Mobile Network

The HOD of ECE Department Dr. K. Murali had given information about wireless Networks and their uses and applications. He had given a briefing on wireless mobile networks.

The Resource person **Mr. Sai Kiran Kumar** started his lectures after introducing himself to the students. This course builds an understanding of the core issues encountered in the design of wireless (vs. wired) networks. It also exposes students to fairly recent paradigms in wireless communication.

Day one resource person had explained about Wireless and Mobile Networks where they can be used and what are the differences between wired and wireless communication. He focused on wireless transmissions and wireless medium access control.

Students are listening about importance of this course

Second day instructor taught about Wireless Telecommunications Systems like GSM, DECT, IMT-2000, LTE etc... and their architectures and standards. Later on discussed about wireless links where the capacity and the distance and about CDMA.

The resource person focused on third day on Wireless LAN IEEE 802.11, Bluetooth, RFID, Security issues. He explained the IEEE 802.11 addressing, mobility and personal area network. In afternoon session the instructor focuses on Mobile Network Layer. Problems of IP in Wireless, Principles behind Mobile IP, Security issues and DHCP.

Resource Person Sai Kiran Kumar explaining the IEEE 802.11 to the students

Next days Mr. Sai Kiran Kumar gave information about Routing in Ad-hoc Networks, Wireless Sensor Networks, direct, indirect routing and focused on mobile transport layer, support for mobility.

Mr. Sai Kiran Kumar asking questions to the students

At the end of the course students, s are expected to understand and apply knowledge of the key issues that differentiate wireless and wired communication. The students will also be well-versed with selected recent paradigm-shifting concepts being developed in the research community. Through hands-on projects, the students are expected to familiarize themselves with wireless technologies.