



ECE Dept organises internship programme in embedded systems and IoT

The ECE Dept. of the College organised a three-day internship program in embedded systems and Internet of Things (IoT) during 3-5.01.2018 for the S7 B Tech (ECE) students. Around 30 students participated in the program. The activities of the program shall be completed only after a visit to KELTRON Controls, Aroor.

During a brief inaugural ceremony, Dr S Swapnakumar, HoD, ECE Dept, explained the need and importance of internships in the current scenario and officially inaugurated the programme.

The programme began with an introduction to the various activities of KELTRON by Mr Giri, Engineer, KELTRON Knowledge Services Group (KSG), Trivandrum. The various theoretical and practical sessions in the programme were handled by a team from KELTRON consisting of Mr Sudheesh V S, Mr Jaison Joseph,

Ms Ann Mary and Ms Anupa Ann Joseph, Academic Executives in KELTRON KSG.

Day 1 (03.01.2018)

On the first day, the students were guided through the world of embedded systems, its applications and future prospects. The features of the basic components were explained by Mr. Sudheesh V S. There was a session devoted to the Arduino development board and its features handled by Mr. Jaison Joseph. In the afternoon, there were practical sessions involving installation of necessary software and basic programming of Arduino boards.

Day 2 (04.01.2018)

The second day of the internship programme covered the interfacing schemes and programming related to digital I/O, serial communication, analog input, PWM, LCD, DHT 11 sensor and moisture sensor. The session was wound up with a demonstration of real-time interfaced application of the discussed peripherals.

Day 3 (05.01.2018)

On the final day, there was an introduction to IoT, the IoT Analytics platform Thinkspeak, demonstration and discussion of real time implemented projects in the embedded systems and IoT and a special session on XBT-pro (a product developed by KELTRON for measuring ocean temperature and other parameters). There were demonstrations of a real time project based on XBT-pro and a real time agriculture monitoring system. The participants were divided into batches of 5 students each and the demonstration, explanation and discussion were conducted for one batch at a time.

