

EEE Dept organises workshop on Arduino and LED bulb assembly for Polytechnic College Students



A two-day workshop on Arduino Programming and LED Bulb Assembly was hosted by the EEE Dept of Vidya exclusively for the Electrical Engineering students of Polytechnic Colleges in Kerala during 18 – 19 December 2019. The focus of the workshop was to impart programming and interfacing skills using Arduino board and to provide practical awareness on LED assembling and testing. As the number of registrations exceeded the expectations, it was decided to conduct the workshop in two batches. This was the workshop for the first batch of 63 students. The Dept is planning to organise the workshop for the second batch in January 2020.

The inaugural ceremony of the two-day workshop commenced with the lighting of an LED lamp by Er G Mohanachandran, Executive Director, VICT. Dr Remani T (Prof and Head, EEE Dept) welcomed

the gathering. Dr Saji C B (Principal) presided over the function. Dr V N Krishnachandran (Vice Principal) felicitated the programme and Mr Krishnakumar M (AP, EEE Dept) proposed the vote of thanks.



About Arduino

Arduino is an open-source electronics platform based on easy-to-use hardware and software. Arduino boards are able to read inputs – light on a sensor, a finger on a button, or a Twitter message – and turn it into an output – activating a motor, turning on an LED, publishing something online. You can tell your board what to do by sending a set of instructions to the microcontroller on the board. To do so you use the Arduino programming language (based on Wiring), and the Arduino Software (IDE), based on Processing.

After the formal inauguration, the students were introduced to different development boards of Arduino and also the development environment for Arduino. In the hands-on sessions, students were given onboard training on Arduino – LED interfacing using push button switch and LED bulb assembling.

Mr Arun Xavier (AP, EEE Dept), Mr Deepak V Dev (AP, EEE Dept) Mr Shubin P V (TI, EEE Dept) led the sessions. Mr Jayaraj K V (TI, EEE Dept) assisted the resource persons during these sessions. The workshop concluded with a valedictory function in which certificates are distributed to the participants.

Topics covered

In the first session, students got familiarized with various development boards of Arduino and learnt the development environment for Arduino. Working with Arduino I/O pin was taught initially and students were made to run small

practicals like blinking LED, interfacing Push-button switch. Following are some of the topics covered in detail:

- Digital read/write
 - Analog read/write
 - Actuator control
 - Control of indicating devices
-

Image gallery



