



SIMAT/IEDC/2018/02

17/02/2018

3 Day Workshop on Power Electronics & Drives

Supported by Kerala State Council for Science, Technology & Environment (KSCSTE)

A 3 day workshop on Power Electronics & Drives, supported by Kerala State Council for Science Technology & Environment (KSCSTE) was conducted from 15th to 17th February 2018. The workshop was jointly organized by IEDC (Innovation & Entrepreneurship Development Center), ISTE (Indian Society for Technical Education), PACE Labs, Department of EEE & ECE, SIMAT. 19 internal & 6 external students participated in the workshop.

The Inauguration of the Workshop was held on 15th February 2018 in the SIMAT seminar hall at 9.30 AM. Mr Renjith P C (Coordinator-AP-EEE) delivered the Welcome Speech. Dr K K Babu, Director SIMAT, inaugurated the workshop and in his inaugural speech he stressed the importance of value added courses and the role of KSCSTE in supporting engineering students. Prof P V Thankachen P V, HOD –EEE, gave a brief description about the importance of these types of workshops in current job scenarios. Mr. Aslam P- (Resource Person PACE Labs) gave the details about the Hands on workshop. Mr. Sebin Sunny P (IEDC Coordinator) delivered the Vote of Thanks. The inaugural event was followed by the Hands on Workshop at CNC Innovation Lab, SIMAT.



Day-1

Mr. Aslam P- (Resource Person PACE Labs) gave a presentation mentioning the Real world application of Power electronics & how power electronics was related with the real time environment. He gave an Introduction for Digital power control & Motor Control. Familiarization of SimuLink Library and

Simulation of Simple Power Electronics Experiments were conducted in the first day.

Day -2

Hands on Live Session of 3 phase PWM Inverter. 3 phase Sine PWM & Induction motor Drive. Simulation of Speed control of induction motor using 3 phases PWM Inverter by V/F Control. PWM wave generation on Simulink.

Day-3

Simulation of Simple Buck Converter. Closed loop Control of Buck Converter. Calculation Load & Output Voltage Regulation. Design Considerations of Different Converters. Hardware implementation of V/F control of 3 phase Induction motor.

The Session ends with a Valedictory Function and Group Photo Session.







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