

Objectives and Course Content of Short Term Courses

O. Plan No.	EE-11
Name of Course	Hands on Practices on Power Electronics Circuits
Objectives	<p>This training programme is specially designed for Engineering College, polytechnic teachers and technicians and it mainly deal with the various aspects of Power Electronics devices and circuits and its hardware implementation. The programming of all converters using MATLAB will also be performed.</p> <p>The course aims to:</p> <ul style="list-style-type: none"> (i) Update the knowledge in the emerging and upcoming topics in the subject area. (ii) Make the teachers conversant with power electronics circuits hardware implementation.
Course Contents	<p>The programme will be designed around the following major topics:</p> <ul style="list-style-type: none"> - Thyristor Technology, - dc-dc, ac-dc, dc-ac and ac-ac converters and its simulation using MATLAB, - Testing of components and design of Power Electronic circuits such as illumination control, emergency lamp, 3phase uncontrolled rectifier, dc chopper drives (Laboratory practice). - Arduino based firing pulse generation and 3 level inverter design.
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