

Objectives and Course Content of Short Term Courses

O. Plan No.	EE-19
Name of Course	Smart Grid and Distributed Generation Technologies
Objectives	<p>This training programme is specially designed for Engineering College Teachers and it mainly deals with various aspects of Smart Grid technology and renewable energy sources. The course aims to achieve the following objectives:</p> <ul style="list-style-type: none"> - To update the knowledge in the emerging and upcoming topics in the subject area. - To make the teachers conversant with relevant practices in Smart Grid technology and concepts of distributed generation. - To make the participants acquainted with MATLAB/SIMULINK, for simulating power systems and Energy Sources (Renewable).
Course Contents	<p>The programme will be designed around the following major topics:</p> <ul style="list-style-type: none"> - Power System Stability and FACTS Devices - Concept of Smart Grid - Smart Grid and Hybrid Systems - Conventional vs. non- conventional energy sources. - Concept of Distributed Generation - Solar Photovoltaic and MPPT Techniques - Detailed and Phasor models of FACTS devices using SIMULINK.
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