

### Objectives and Course Content of Short Term Courses

<b>O. Plan No.</b>	EE-21
<b>Name of Course</b>	Real Time Simulation of HVDC and FACTS Devices
<b>Objectives</b>	<p>This training programme is specially designed for Engineering College Teachers and it mainly deals with various aspects of FACTS technology and HVDC. The course aims to achieve the following objectives:</p> <ul style="list-style-type: none"><li>(i) To update the knowledge in the emerging and upcoming topics in the subject area.</li><li>(ii) To make the teachers conversant with relevant practices in FACTS technology and concepts of HVDC.</li><li>(iii) To make the participants acquainted with MATLAB/SIMULINK, for simulating power systems.</li></ul>
<b>Course Contents</b>	<p>The programme will be designed around the following major topics:</p> <ul style="list-style-type: none"><li>. Power System Stability and FACTS Devices</li><li>. Concept of HVDC</li><li>. Real Time Simulation Concepts</li><li>. Real Time Simulation of FACTS Devices</li><li>. Detailed and Phasor models of FACTS Devices using SIMULINK.</li></ul>
<b>Course Coordinator, email address and phone number</b>	Dr. Ritula Thakur ritula@nitttrchd.ac.in 9888520284