



## MODULE 7

### SUB-SYNCHRONOUS OSCILLATION STUDY FOR RENEWABLE PLANTS USING PSCAD

#### Training Objectives:

The course is entitled to impart knowledge on understanding Sub-Synchronous Oscillation (SSO) in power systems and its various types. The course emphasizes series compensation and its effect on SSO and possible mitigation methods. After successful completion of this module, the audience would gain an understanding of the SSO phenomenon and how to set up and analyze a test case for an SSO study in PSCAD.

#### Who Will Benefit?

- Employees of Central and State utilities
- Professionals working in the modeling, analysis, and system studies domain of the power & energy industry
- Graduate/Post-graduate students in Electrical/Electrical and Electronics Engineering willing to join the power system industry

#### Course Content:

- Introduction to SSO
- Impact of series compensation on SSO
- Types of SSO
- Setting up of a test case for SSO study in PSCAD
- Analysis of impedance scanning results
- Mitigation methods

<b>Pre-Requisite:</b>	Basics of Power Systems
<b>Software:</b>	PSCAD/EMTDC Simulations
<b>Delivery Mode:</b>	In-person-Physical classroom setting
<b>Certification:</b>	Yes
<b>Course Duration:</b>	12 Hrs
<b>Course Fee:</b>	INR 35,000 (For professionals) INR 17,500 (for students)



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