

COURSE DESCRIPTION

INTCV567

FACTS - Technologies that enable Stronger, Smarter and Greener Grid



The goal

The goal of the course is to provide insight to the Flexible AC transmission system (FACTS) technologies that enable Stronger, Smarter and Greener grid. The emphasis in this course is on Renewable power transmission and integration, enhancing power transmission capability, stability, overall efficiency and complying to Grid code requirements by adapting optimized FACTS solutions. Latest technology solutions for Series compensation and Shunt compensation will be discussed in detail with specific reference projects. Technologies for load compensation and power factor correction which are quite important in industrial applications, will also be discussed.

Learning objectives

The participants will be able to:

- Understand the changing power landscape and need for Power quality
- Maximum power transfer and compensation techniques

- Transmission stability and thermal limits, technologies for enhancing power transfer, stability and efficiency
- Comparison of FACTS technologies and selection criteria
- Grid codes and compliance requirements

Participant profile

Electrical Engineers, Design, EPC, testing and commissioning personnel and consultants from the electricity supply industry. Academia Students of Electrical /Power System.

Prerequisites

Engineering degree, technical college qualification or equivalent with Basic knowledge of power Generation and transmission system

Topics

- Power system changes and Renewable integration
- Basics of Power transfer and voltage regulation
- Grid Code Requirements and compliance
- FACTS solutions and benefits
- Series compensation - FSC and TCSC technologies
- Shunt compensation - SVC, STACOM, Hybrid –STATCOM technologies
- Practical success cases

Course type

This is a face to face class room training.

Learning methods and tools

Lectures, demonstrations, practical exercises.

Laptop or tablet is required to have access to the e-documentation. Please bring your own device.

Duration

Duration of the course one day.

To Register:

LMS:-[MyLearning](#)

Sign In: check [IE browser setting](#) Click SIGN IN to Sign-up or Log-in with your ABB account.

Search: please enter course number INTCV567 into the search field. (Please check the language filter EN)

The latest version of the course portfolio, and course schedule can be found on our

[ABB PowerTEC Webpage](#) :

<http://new.abb.com/service/abb-university/india>

or

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