

TECHNICAL ENGINEERING COURSES

Technical Engineering Courses

Power Engineering Software

Specialized Consulting Services

IT Solutions & Projects

Enhancing Technical Knowledge

CYME recognizes the need of power system engineers to maintain a high degree of technical knowledge applicable to their field of practice.

The ever-changing needs of power industry, as it experiences continuous changes in its structure and operation practices, are creating new challenges. These challenges require sophisticated and innovative solutions.

New and advanced technologies are being developed to address these challenges and the practicing engineer should stay current with these developments to be able to meet system performance requirements effectively.

This suggests a need for three types of technical engineering courses:

- Fundamental Courses
- Advanced System Courses
- Specialized Topics

Fundamental Courses

These courses are intended to refresh fundamental power engineering concepts in the minds of practicing engineers. The main emphasis is on understanding how these fundamentals apply to the addressed discipline.

Advanced System Courses

These courses form natural extensions to the fundamental courses, in the corresponding discipline, where detailed analysis, planning, design and operation techniques are presented. Methods of enhancing system performance and trouble shooting techniques are presented at this level.

Specialized Topics

These courses address topics of special nature, to deal with the new trends in the electrical industry aiming at increasing efficiency, reducing cost, and improving performance. They also deal with changes in the production industry practices and the increasing use of equipment sensitive to network disturbances.



Course Format

Technical courses are prepared and delivered by highly knowledgeable specialized experts with extensive practical experience in the treated subject.

Courses are conducted at different locations and attendance is open to interested individual irrespective of their affiliation. Courses can be held at customer premises if the number of attendees warrants it or if the course is intended to address a specific customer need.

Topics Covered

Fundamental courses cover standard Power Engineering Concepts such as: Steady State Analysis (Load Flow and Short Circuit Calculations), Protection Coordination, Reliability Assessment, etc. They also introduce the participants to the principles and methods used in System Dynamic Studies such as Stability and Electro-mechanical and Electromagnetic Transients.

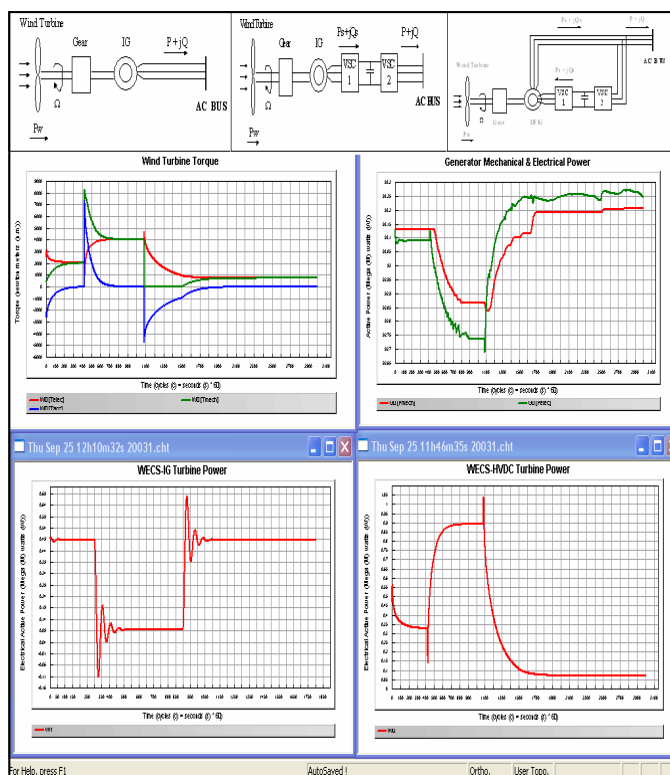
Advanced System Courses expand on the above topics and introduce advanced concepts used in dealing with these topics. They elaborate on tools and techniques available for these analyses and their intricacies.

Specialized Topics, mostly, deal with specific phenomena, their consequences and remedial actions.

Topics covered under this category include:

- Voltage Sags and Swells and their impact on customer loads
- Harmonic and Flicker problems and means for their mitigation
- Distribution Systems' Performance and measures of improvement
- Distributed Resources and their integration in power systems
- Grounding Systems and Ground Potential Rise
- Voltage Control and VAR flow optimization
- System Reliability and Outage Analysis
- Improving Overhead Line Reliability Using Lightning Arresters
- Planning and Operation of Power Systems Under Uncertain Conditions
- Cable Ampacity

Wind Generator Model



CYME's Involvement in Technology Training

CYME have organized training courses and seminars in the USA, Canada, United Kingdom, Peru, Indonesia, Malaysia, Singapore, France, Senegal, United Arab Emirates, Australia, India, Ivory Coast, Zimbabwe and many more.



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