

Advanced PSCAD Course: Custom Model Development

The Professional's Power Systems Transient Simulator

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Course Benefits

PSCAD V4 introduces the new era of toolsets for the simulation of electric power systems, distribution systems and power electronic systems. This course is designed to familiarize experienced users with the advanced operation of PSCAD Version 4, specifically the development of customer models. With numerous hands-on examples and discussion, users will be able to develop a more detailed understanding PSCAD V4 and its applications.

Modern power, distribution and electronic systems are becoming increasingly complex. Traditional single frequency based study and design software is unable to deliver the precision needed to confidently deliver the best engineering solution. This course will help increase your engineering skills in this rapidly developing and competitive world.

Course Outline: Three Days

9:00 AM – 5:00 PM (all days)

1. Discussion of model theory
 - a. Network Solution, Interpolation and Chatter Removal
2. EMTDC Structures
3. EMTDC Files
4. Component Design
5. Advanced Graphics
6. Writing Subroutines
7. Error Messages and Debugging
8. Global Constant, Import/Export and Radio Links

Computer Requirements

Please bring your own laptop for the hands-on workshop. The latest version of PSCAD Student Edition will be installed on your computer. We will also install a PSCAD Professional Edition Trial.

Recommended minimum system requirements:

- Microsoft Windows 95, 98, 2000, Me, NT, XP
- Pentium, 256 MB RAM, 100 MB Disc Space, CD ROM Drive, 1024x768 Screen
- TCP/IP protocol.

Instructors

Dr. Om Nayak, P.Eng.: Dr. Nayak has over seventeen years of experience in the power systems industry. He was one of the principal developers of PSCAD at Manitoba HVDC Research Centre, in Winnipeg, Canada. He has taught many PSCAD seminars and other power systems simulation

courses worldwide. He has a broad experience in power systems modeling and provides consulting services worldwide including PSCAD seminars at customer's site. Nayak Corporation is a full-service PSCAD distributor which offers technical support and training in conjunction with the Manitoba HVDC Research Centre. In addition to Dr. Nayak, there will be other PSCAD experts to help with the workshop.

Cost

The course will cost \$2,000 for the three days. We will provide a workbook, tutorial notes and example cases. The participants are required to bring their own laptop. Lunches are provided on site. Hotel accommodations and local travel are the responsibility of the participant.

Travel and Accommodation

Princeton is located equidistant from New York City and Philadelphia. The most convenient airports are Newark (EWR) and Philadelphia (PHL) airports. Please check the following links for local accommodations. Also, feel free to contact us if you need further assistance.

<http://www.princeton.edu/Siteware/Visitors.shtml>

<http://www.princeton.edu/pr/facts/hotels.shtml>

Cancellation

– Since the course has significant hands-on content, the attendance is limited to 8 participants to allow maximum one-on-one interaction with the instructors. So please try to respond as soon as possible and reserve your place. The course may be cancelled if we do not have at least 4 participants. Students will be notified two weeks prior to commencement if the course is cancelled.