



**NANYANG
TECHNOLOGICAL
UNIVERSITY**
SINGAPORE

College of Professional and
Continuing Education

Specialist Certificate

in Electrical Power Systems



SPECIALIST CERTIFICATES

Specialist certificates enable working adults to update their knowledge and upgrade their skills required in key growth sectors to keep pace with the fast-changing economy. Each specialist certificate comprises of modules which are taken from the Undergraduate Full Degree Programme in key growth sectors including power engineering. These modular courses can also be taken individually and each course lasts for one semester of 13 weeks.

Each course is credit bearing and can be stackable to the relevant degree. There will be continuous assessments during course period and a final exam at the end of the course which contribute to a final grade. The maximum candidature period for earning a Specialist Certificate is 3 years from the first enrolled Specialist Certificate course under the specific certificate. A certificate will be awarded to the successful participants upon completion of courses.

Specialist Certificate in ELECTRICAL POWER SYSTEMS

LEARNING OBJECTIVES

- Gain knowledge for the analysis of AC & DC linear circuits.
- Understanding basic electromagnetic principles and actuators such as solenoids, relays and inductors.
- Handle routine technical problems relating to the electrical power system and have a better appreciation and understanding of power generation, transmission and distribution lines and loads and their analysis methods.

PROGRAMME STRUCTURE

This Specialist Certificate comprises of the following 3 modules (*Modules can be taken individually*):

1. [EE2001 Circuit Analysis](#)
2. [EE3015 Power Systems and Protection](#)
3. [EE3010 Electrical Devices and Machines](#)

ADMISSION CRITERIA

- At least 21 years of age
- Have 2 years of full-time work experience, or have fully discharged full-time NS liability, or are currently employed on a full-time basis
- Degree in Engineering/Science or Polytechnic Diploma with relevant working experience
- Selective module(s) require relevant prerequisite modules or can be substituted with relevant work/industry experience

WHO SHOULD ATTEND

- Graduate participants, practicing electrical engineers, power engineers seeking to acquire knowledge and foundation for the study of linear control systems, power networks, electronics and communication systems, power electronics and drive systems, power supply and utilization.

FEES AND SUBSIDIES

- Total course fee of around S\$4,500 before any applicable subsidy
- MOE Skills-based Modular fee subsidy
- Additional 60% fee subsidy under SkillsFuture Mid-Career Enhanced Subsidy (MCES)
- e2i fee subsidy
- Up to S\$250 course fee subsidy under NTUC UTAP
- Eligible for SkillsFuture Study Award

Log on to www.copace.ntu.edu.sg to apply

Applications for Specialist Certificates are open all year round

Academic Semester 1: August to December
(Process in May)

Academic Semester 2: January to May
(Process in October)