

EN6000

## Electrical Fundamentals



**Course Aim** This course aims to present the fundamental principles and main theories of electrical engineering providing the students with the basic knowledge and skills within the field of electrical and electronics engineering.

**Short Title** None  
**Faculty** EDICT  
**Polytechnic Level** 5  
**Credits** 15  
**Pre-requisites** None  
**Co-requisites** None  
**Anti-requisites** None

**Version** 2.00  
**Effective From** February 1, 2016  
**Indicative NQF Level** 6  
**Student Contact hrs** 90  
**Self-directed hrs** 60  
**Other directed hrs** None  
**Total learning hrs** 150

Learning Outcomes	On successful completion of this course, students will be able to:	NQF Sub-strand
1	Apply detailed knowledge to solve electrical problems using DC circuit theorems.	Theoretical Understanding
2	Explain the main parameters and basic function of electrical/electronic components.	Theoretical Understanding
3	Apply basic practical skills to competently use a range of electrical test/measuring instruments.	Practical Application of knowledge
4	Apply basic and some advanced practical skills to implement and test a project using common electrical/electronic components and devices.	Practical Application of knowledge