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:
1  Apply detailed knowledge to solve electrical problems using DC circuit theorems.  
2  Explain the main parameters and basic function of electrical/electronic components.  
3  Apply basic practical skills to competently use a range of electrical test/measuring instruments.  
4  Apply basic and some advanced practical skills to implement and test a project using common electrical/electronic components and devices.

NQF Sub-strand  Theoretical Understanding  
Theoretical Understanding  
Practical Application of knowledge  
Practical Application of knowledge