EN6080

Alternating Current (AC) Circuit theory



Course Aim Introduce detailed theiries, ptinciples and concepts of common electrical/electronic components as applied to single phase and 3 phase alternating current (AC) circuits and to introduce basic practical design skills for AC circuit design.

Short Title AC Circuit Theory Faculty EDICT

Credits 15 Pre-requisites EN6000 or ENB5000 Co-requisites None Anti-requisites Version 3 Effective From February 1, 2016 Indicative NQF Level 6 Student Contact hrs 90 Self-directed hrs 60 Other directed hrs 0 Total learning hrs 150

 Learning
 On successful completion of this course, students will be able to:
 NO

 Outcomes
 1 Apply detailed AC theories and principles to solve electrical problems related to
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 AC circuit design and analysis
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- 2 Apply basic and some advanced practical skills to design and analyze single-phase Practical and 3-phase AC circuits for well-defined engineering applications Applicati
- 3 Use a range of measurement devices to analyze, simulate, test, measure and display electrical AC signals (voltages, currents and electrical power).

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