

EN6010 Engineering Computing Fundamentals



Course Aim To give students an introduction to structured and symbolic programming techniques, using the MatLab and LabVIEW development environments as they relate to engineering applications.

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

Version 2
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 Outcomes On successful completion of this course, students will be able to:

- 1 Create a MatLab program utilizing arrays, conditional statements, iteration and graphs.
- 2 Design and document a LabVIEW program using basic concepts of engineering analysis.

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