EN6001 Engineering Computing

Course Aim To give students a detailed knowledge of structured programming techniques, the C/C++ programming language and to present a detailed application of symbolic language programming techniques as they relate to engineering problem-solving.

Short Title Faculty EDICT
Polytechnic Level 5
Credits 15
Pre-requisites EN6907 (ENB5907)
Co-requisites None
Anti-requisites None

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

1. Demonstrate a detailed understanding of the general concept of a computer system.
2. Apply basic and some advanced programming skills to create a computer program utilising a modern integrated development environment and conforming to a defined specification.
3. Demonstrate a detailed understanding of structured programming techniques for solving defined engineering problems.
4. Apply basic and some advanced programming skills to design and document a structured C/C++ program using basic concepts of engineering analysis.

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

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