

IT8118

Advanced Programming



Course Aim To provide students with the necessary skills to create desktop and web applications that connect to and work with databases.

Short Title

Faculty EDICT

Polytechnic Level

Credits 15

Pre-requisites IT7008 (ITB6008)

Co-requisites Nil

Anti-requisites Nil

Version 3

Effective From September 1, 2018

Indicative NQF Level 8

Student Contact hrs 60

Self-directed hrs 60

Other directed hrs 30

Total learning hrs 150

Learning

Outcomes

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

- 1 Design and implement desktop applications that access and manipulate a database
- 2 Design and implement web applications that access and manipulate a database
- 3 Use object oriented techniques to design and implement custom database entity classes
- 4 Manage a multi-tier application which uses custom entity classes to access and manipulate a database
- 5 Propose an appropriate technology for a particular problem

NQF Sub-strand

Practical
Application of
knowledge
Practical
Application of
knowledge
Practical
Application of
knowledge
Practical
Application of
knowledge
Generic, Problem
Solving and
Analytical Skills