

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** 2

**Effective From** February 2016

**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