IT8313

Wireless Communications



Course Aim To provide students with an advanced understanding of mobile and wireless

communication concepts. To allow students to design and implement a modern mobile/wireless infrastructure in a specialist level, similar to the ones implemented

by the mobile carriers in Bahrain.

Short Title

Faculty EDICT

Polytechnic Level

Credits 15

Pre-requisites IT7003 (ITB6003)

Co-requisites

Anti-requisites

Version 3

Effective From September 1, 2017

Indicative NQF Level 8

Student Contact hrs 60

Self-directed hrs 90

Other directed hrs 0

Total learning hrs 150

Learning

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

Outcomes 1 Summarise the communications theory fundamentals that allow mobile/wireless Theoretical

networks to function.

2 Implement a mobile network infrastructure for a geographic area using GSM and Practical

GPRS.

 $\,$ 3 $\,$ Plan and configure UMTS, CDMA and LTE mobile infrastructures.

4 Implement a WiMax network infrastructure.

NQF Sub-strand

Understanding

Application of

knowledge

Generic, Problem

Solving and

Analytical Skills

Practical
Application of

knowledge