

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 IT8303 (ITB7303)
Co-requisites
Anti-requisites

Version 2
Effective From february 2016
Indicative NQF Level 8
Student Contact hrs 60
Self-directed hrs 90
Other directed hrs 0
Total learning hrs 150

Learning Outcomes	On successful completion of this course, students will be able to:	NQF Sub-strand
1	Summarise the communications theory fundamentals that allow mobile/wireless networks to function.	Theoretical Understanding
2	Implement a mobile network infrastructure for a geographic area using GSM and GPRS.	Practical Application of knowledge
3	Plan and configure UMTS, CDMA and LTE mobile infrastructures.	Generic, Problem Solving and Analytical Skills
4	Implement a WiMax network infrastructure.	Practical Application of knowledge