

EN8060

Telecommunications B



Course Aim To provide students with advanced theoretical and specialist practical skills in the analysis and design of digital communications systems and to present the advanced applications and characteristics of modern telecommunication systems.

Short Title

Faculty EDICT

Polytechnic Level 7

Credits 15

Pre-requisites EN7060 or ENB6060 & EN7007 or ENB6007

Co-requisites None

Anti-requisites None

Version 4

Effective From September 1, 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:

- 1 Demonstrate critical knowledge related to advanced digital modulation techniques in terms of analysis and performance, and apply them for signal modulation and demodulation.
- 2 Demonstrate advanced knowledge related to currently-used telecommunication systems in terms of their characteristics and performance.
- 3 Design and configure and critically analyze a telecommunication system for a defined or undefined practical application.

NQF Sub-strand

Theoretical Understanding

Practical Application of knowledge

Practical Application of knowledge