

University of Pretoria Yearbook 2022

Digital communication 310 (EDC 310)

Qualification	Undergraduate
Faculty	Faculty of Engineering, Built Environment and Information Technology
Module credits	16.00
NQF Level	07
Programmes	BEng (Computer Engineering) BEng (Computer Engineering) ENGAGE
Prerequisites	ELI 220 GS
Contact time	1 practical per week, 1 tutorial per week, 3 lectures per week
Language of tuition	Module is presented in English
Department	Electrical, Electronic and Computer Engineering
Period of presentation	Semester 2

Module content

In this module, skills are developed which will enable the students to understand the fundamentals of analogue and digital communication systems, analyse existing systems, improve and modify existing services if required, and design and develop new communication equipment and systems that will meet future demands. Topics that are covered in this module are an introduction to digital communication systems, source coding, communication through an additive white Gaussian channel, carrier modulation, single- and multi-carrier communication through a multipath channel, error-correction coding, and multi-user communication.

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