

B.E.(Electrical & Electronic)/B.Sc.(Physics)

Year V - 25 units

<i>Term</i>	<i>Subject Area</i>	<i>Catalogue Number</i>	<i>Course Description</i>	<i>Units</i>
Sem I	ELEC ENG	4037	Digital Microelectronics	2.0
Sem I	ELEC ENG	4039A	Honours Project Part 1* <i>or</i>	
Sem I	ELEC ENG	4036A	Design Project Part 1*	3.0
Sem I	ELEC ENG	4044	RF Engineering IV	2.0
Sem I	ELEC ENG	4046	Telecommunications IV	2.0
				9.0
Sem II	ELEC ENG	4039B	Honours Project Part 2* <i>or</i>	
Sem II	ELEC ENG	4036B	Design Project Part 2*	3.0
Sem II	ELEC ENG	4042	Power Electronics & Drive Systems	2.0
				5.0
Elective to the value of 2 units (see below)				2.0
PHYSICS 3544 Quantum Mechanics III (3 units) and at least 6 units of courses selected from: PHYSICS 3532 Atmospheric & Astrophysics III (3 units) PHYSICS 3540 Optics & Photonics III (3 units)				9.0
and an appropriate course offered by Applied Mathematics and specified under Academic Program Rule 4.2.3.1 of the degree of Bachelor of Mathematical and Computer Sciences.				

* Students accepted into the Honours stream will take Honours Project and other students will take Design Project.

Electives

<i>Term</i>	<i>Subject Area</i>	<i>Catalogue Number</i>	<i>Course Description</i>	<i>Units</i>
Sem I	ELEC ENG	4035	Communications IV	2.0
Sem I	APP MTH	4012	Communication and Network Design	2.0
Sem I	COMP SCI	3005	Computer Architecture UG	3.0
Sem I	ELEC ENG	4043	Power Quality & Condition Monitoring	2.0
Sem I	ELEC ENG	4045	Signal Processing IV	2.0
Sem I	COMP SCI	3001	Computer and Network Applications	3.0
Sem II	ELEC ENG	4033	Advanced Telecommunications	2.0
Sem II	ELEC ENG	4049	Analogue Microelectronic Systems	3.0
Sem II	ELEC ENG	4041	Optical Communication Engineering	2.0
Sem II	ELEC ENG	4051	Introduction to Electronic Defence Systems	2.0
Sem II	ELEC ENG	4050	Systems Engineering	2.0
Sem II	APP MTH	3016	Telecommunications Systems Modelling III	3.0
Sem II	COMP SCI	3004	Operating Systems UG	3.0
Sem II	COMP SCI	3001	Computer Networks and Applications UG	3.0
Sem II	PURE MTH	3018	Coding and Cryptology III	3.0