

Programme Name	Bachelor of Engineering (Honors) (Electronics Engineering) (Telecommunication & Networking)
Programme Description	<p>BE ELECTRONICS(hons) (Telecommunication and Networking) is a 4-year degree that can be completed in 4 years of study. The Programme is designed to prepare aspiring students for the following engineering attributes:</p> <ul style="list-style-type: none"> • to equip students with the knowledge and skills that are currently in high demand in the telecommunication and related industries • to provide students with a foundation for further study and research • to enable students to acquire a broad understanding of telecommunication engineering, whilst providing opportunities for them to develop expertise within particular areas of specialization • to develop the students' ability to make an effective contribution to team-based activity • to encourage students to adopt an investigative approach and develop autonomous study skills in order to ensure their continuing professional development. • to provide students with an understanding of the industrial context and an appreciation of a range of external factors that affect the work of the professional telecommunication engineer. <p>The courses in the Programme have both theoretical sessions, laboratory experimental exercises and practical sessions to enhance the learning and acquiring of cognitive (of the mind) and practical skill suitable for an engineer in this area of expertise. In the last year there a one-year capstone project followed by an Industrial Attachment of about six months to provide hands on experience in an industrial scenario to students to make them work- ready.</p>
Majors	Bachelor of Engineering (Honors) (Electronics Engineering) (Telecommunication & Networking)
Minimum Requirements	Pass in Year 13 with 280 out of 400 marks with 50% or more marks in English, 70% or more marks in Mathematics and Physics, and pass in Technical Drawing/Applied Technology /Chemistry or any other Science or Technology subject or Completion of Foundation Science with GPA of 3.00 or more.
Duration	4 Years

College Name	College of Engineering, Science and Technology
Campus	Derrick
Credit Points	480

Programme Structure			
Course Code	Course Title	Prerequisite	Credit Points
	Semester 1		
COM502	Engineering Communication and Practices	MER	15
MEB502	Engineering Materials	MER	15
CEB503	Computer Aided Drafting and Modelling	MER	15
MTH517	Mathematics for Engineers I	MER	15
	Total Credit Points		60
	Semester 2		
EEB501	Introduction to Electrical and Electronics Engineering	SEM 1 UNITS	15
CSC501	C++ Programming for Engineers	SEM 1 UNITS	15
MEB503	Engineering Mechanics	SEM 1 UNITS	15
MTH518	Mathematics for Engineers II	MTH517	60
	Semester 3		
MTH618	Mathematics for Engineers III	MTH517	15
EEB601	Circuit Theory	EEB501	15
EEB602	Analog Electronics	EEB501	15
EEB603	Digital Electronics	EEB501	15
	Total Credit Points		60
	Semester 4		
EEB 604	Engineering Computations and Modelling	YR1 SEM 1, CSC510	15

EEB 605	Engineering Electromagnetics	SEM 3 UNITS	15
EEB 681	Engineering Planning	SEM 3 UNITS	15
PEB 601	Design Project I	SEM 3 UNITS	15
	Total Credit Points		60
	Semester 5		
EEB 761	Radio Frequency (RF) Principles	SEM 4 UNITS	15
EEB 731	Signals and Systems	SEM 4 UNITS	15
EEB 741	Embedded System Design	SEM 4 UNITS	15
PEB 702	Engineering and Society	SEM 4 UNITS	15
	Total Credit Points		60
	Semester 6		
EEB 762	Telecommunication Systems	SEM 5 UNITS	15
EEB 763	Digital Communication	SEM 5 UNITS	15
EEB 764	Computer Networks	SEM 5 UNITS	15
PEB 701	Design Project II	SEM 5 UNITS	15
			60
	Semester 7		
EEB 861	Antennas and Wave Propagation	SEM 6 UNITS	15
EEB 831	Digital Signal Processing	SEM 6 UNITS	15
EEB 862	Mobile and Personal Communication	SEM 6 UNITS	15
PEB 801	Capstone Design Project I	SEM 6 UNITS	15
			60
	Semester 8		
EEB 863	Satellite Communication	SEM 7 UNITS	15

EEB881	Innovation Management & New Product Development	SEM 7 UNITS	15
PEB 802	Capstone Design Project II	SEM 7 UNITS	30
			60
	Industrial Attachment	Completion of 6 months of relevant industrial attachment	
Total Credit Points			480