

Bachelor of Technology in Electronics and Communication Engineering
School of Electronics Engineering

Programme Credit Structure				Credits	ECE4002	Wireless and Mobile Communications	4	0	4
University Core Courses				80	ECE2007	Digital Signal Processing	3	2	4
Programme Core Courses				40	ECE3002	Antennas and Wave Propagation	4	0	4
Programme Elective / Spl. Elective				20	ECE3003	Computer Communications	3	2	4
University Elective				20	ECE4001	Microwave Engineering	3	2	4
Total Graded Credit Requirement				160	ECE3018	IoT Fundamentals	2	4	4
					ECE4017	IoT Domain Analyst	2	4	4
University Core				80	ECE3023	Scripting Languages	3	3	4
		T	P	C	ECE2009	Data Acquisition and Transmission Systems	3	2	4
MAT1001	Calculus for Engineers	3	2	4	ECE3008	Neural Networks and Fuzzy Systems	4	0	4
MAT1002	Applications of Differential and Difference Equations	3	2	4	ECE3006	HDL Verification and Methodology	3	2	4
MAT1011	Applied Statistics	3	2	4	ECE2010	Digital System Design using FPGAs	3	2	4
PHY1008	Modern Physics	3	2	4	ECE3005	CMOS VLSI Design	3	2	4
CHY1009	Chemistry and Environmental Studies	3	2	4	ECE4005	SoC Design	3	2	4
CSE1012	Problem Solving using Python	3	2	4	ECE4008	Low Power VLSI Design	3	0	3
CSE2005	Object Oriented Programming using JAVA	3	2	4	ECE4012	VLSI Design for Testability	3	0	3
CSE2001	Data Structures and Algorithms	3	2	4	ECE4010	RF and Mixed Signal Circuit Design	3	2	4
ECE1002	Fundamentals of Electrical and Electronics Engineering	3	2	4	ECE2008	VLSI System Design	3	2	4
ENG1001/ ENG1002	English for Essential Communication/ English for Effective Communication	2	2	3	ECE4006	Analog IC Design	3	2	4
ENG1002/ ENG2001	English for Effective Communication / English for Professional Communication	2	2	3	ECE4009	Optical Communications	3	0	3
FRLxxxx	Foreign Language	2	0	2	ECE3010	Speech Processing	3	2	4
MGT1040	Entrepreneurship	2	0	4	ECE3009	Power Electronic Converters	3	2	4
MGT1001	Ethics and Values	2	0	2	ECE3004	Embedded Hardware Software System Design	3	2	4
	Indian Studies	2	0	2	ECE4003	Embedded C Programming and Linux Development	3	2	4
STSxxxx	Qualitative and Quantitative Skills Practice I	3	0	1	ECE1007	Sensor Systems	3	2	4
STSxxxx	Qualitative and Quantitative Skills Practice II	3	0	1	ECE4007	IoT System Architecture	4	0	4
BIC4002	Industrial Internship/ Senior Design Project	0	0	12	ECE4011	Robotics and Automation	4	0	4
CAP4001	Capstone	0	0	6	University Electives 20				
SIT1001	Summer Internship	0	0	2	Engineering Sciences Humanities Social Sciences Liberal arts Economics Finance Management				
ECS2002	Engineering Clinics - System Design	0	4	2	Honours Degree (20 credits) - Students can opt for an Honours Degree" in the same discipline by earning 20 credits in addition to the minimum credit requirement of the Undergraduate Degree from the courses listed in the Honours options				
ECS3001	Engineering Clinics - Real Time System	0	4	2	Minors Degree (20 credits) - Students can opt for a "Minor Degree" in other disciplines 20 credits in addition to the mini-mum credit requirement of the Undergraduate Degree from the courses listed in the Minor options				
EXCXXXX	Extracurricular Activities			2	Double Major Degree (40 credits) -Students can opt for a "Double Major" in other disciplines by earning 40 credits in addition to the minimum credit requirement of the Undergraduate Degree from the courses listed in the Second Major options.				
Programme Core				40					
PHY1002	Semiconductor Devices and Circuits	4	0	4					
ECE2001	Analog Devices and Circuits	3	2	4					
ECE1003	Digital Logic Design	3	2	4					
ECE2005	Signals and Systems	4	0	4					
PHY2001	Applied Electromagnetics	4	0	4					
ECE2014	Microprocessors and Microcontrollers	3	2	4					
ECE1010	Probability and Random Processes	4	0	4					
ECE2006	Communication Systems	3	2	4					
ECE3001	Linear Integrated Circuits and Applications	3	2	4					
ECE2003	Control Systems Engineering	3	2	4					
Programme Electives				20					