

Programme Core	Programme Elective	University Core	University Elective	Total Credits
59	36	53	12	160

Course Code	Course Title	Course Type	L	T	P	J	C
PROGRAMME CORE							
ECE1001	Fundamentals of Electrical Circuits	ETL	2	0	2	0	3
ECE1002	Semiconductor Devices and Circuits	ETL	3	0	2	0	4
ECE1003	Electromagnetic Field Theory	TH	3	0	0	0	3
ECE1004	Signals and Systems	ETP	2	0	0	4	3
ECE1005	Sensors and Instrumentation	ETP	1	0	0	4	2
ECE2001	Network Theory	TH	3	0	0	0	3
ECE2002	Analog Electronic Circuits	ETLP	2	0	2	4	4
ECE2003	Digital Logic Design	ETL	2	0	2	0	3
ECE2004	Transmission Lines and Waveguides	TH	3	0	0	0	3
ECE2005	Probability Theory and Random Processes	TH	3	0	0	0	3
ECE2006	Digital Signal Processing	ETLP	2	0	2	4	4
ECE3001	Analog Communication Systems	ETL	3	0	2	0	4
ECE3002	VLSI System Design	ETL	3	0	2	0	4
ECE3003	Microcontroller and its Applications	ETLP	2	0	2	4	4
ECE4001	Digital Communication Systems	ETL	3	0	2	0	4
ECM1001	Circuit Theory	ETL	2	0	2	0	3
MAT2002	Applications of Differential and Difference Equations	ETL	3	0	2	0	4
MAT3004	Applied Linear Algebra	TH	3	2	0	0	4
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PROGRAMME ELECTIVE							
CSE2003	Data Structures and Algorithms	ETLP	2	0	2	4	4
CSE2005	Operating Systems	ETLP	2	0	2	4	4
ECE1006	Introduction to Nanoscience and Nanotechnology	ETP	2	0	0	4	3
ECE1007	Opto Electronics	TH	3	0	0	0	3
ECE1008	Electronics Hardware Trouble Shooting	LO	0	0	2	0	1
ECE2008	Robotics and Automation	ETP	2	0	0	4	3
ECE2010	Control Systems	ETP	3	0	0	4	4
ECE3004	Computer Organization and Architectures	TH	3	0	0	0	3
ECE3005	Digital Image Processing	ETL	3	0	2	0	4
ECE3009	Neural Networks and Fuzzy Control	ETP	3	0	0	4	4
ECE3010	Antennas and Wave Propagation	TH	3	0	0	0	3
ECE3011	Microwave Engineering	ETLP	3	0	2	4	5
ECE3013	Linear Integrated Circuits	ETL	3	0	2	0	4
ECE4002	Advanced Microcontrollers	ETP	3	0	0	4	4

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ECE4003	Embedded System Design	ETLP	2	0	2	4	4
ECE4004	Embedded C and Linux	ETLP	3	0	2	4	5
ECE4005	Optical Communication and Networks	ETLP	2	0	2	4	4
ECE4007	Information Theory and Coding	ETP	3	0	0	4	4
ECE4008	Computer Communication	ETL	3	0	2	0	4
ECE4009	Wireless and Mobile Communication	ETLP	3	0	2	4	5
ECE4010	Satellite Communication	TH	3	0	0	0	3
ECE4011	Wireless Sensor Networks	ETLP	2	0	2	4	4
ECE4013	Cryptography and Network Security	TH	3	0	0	0	3
MAT3005	Applied Numerical Methods	TH	3	2	0	0	4
PHY1002	Materials Science	ETL	3	0	2	0	4
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UNIVERSITY CORE							
ENG1000	Foundation English-I	LO	0	0	4	0	0
ENG1902	Technical English-II	LO	0	0	4	0	2
ENG2000	Foundation English-II	LO	0	0	4	0	0
STS1101	Fundamentals of Aptitude	SS	3	0	0	0	1
STS1201	Introduction to Problem Solving	SS	3	0	0	0	1
CHY1002	Environmental Sciences	TH	3	0	0	0	0
CHY1701	Engineering Chemistry	ETL	3	0	2	0	4
CSE1001	Problem Solving and Programming	LO	0	0	6	0	3
CSE1002	Problem Solving and Object Oriented Programming	LO	0	0	6	0	3
ECE3099	Industrial Internship	PJT	0	0	0	0	2
ECE3999	Technical Answers for Real World Problems (TARP)	ETP	1	0	0	8	3
ECE4098	Comprehensive Examination	PJT	0	0	0	0	2
ECE4099	Co-Op / Capstone Project	PJT	0	0	0	0	20
HUM1021	Ethics and Values	TH	2	0	0	0	2
MAT1011	Calculus for Engineers	ETL	3	0	2	0	4
MAT2001	Statistics for Engineers	ETL	3	0	2	0	4
MGT1022	Lean Start-up Management	ETP	1	0	0	4	2
PHY1701	Engineering Physics	ETL	3	0	2	0	4
PHY1999	Introduction to Innovative Projects	ETP	1	0	0	4	2
FLC4097	Foreign Language Course Basket	CDB	0	0	0	0	2
ESP1001 - ESPANOL FUNDAMENTAL - TH							
ESP2001 - ESPANOL INTERMEDIO - ETL							
FRE1001 - Francais quotidien - TH							
FRE2001 - Francais progressif - ETL							
GER1001 - Grundstufe Deutsch - TH							
GER2001 - Mittelstufe Deutsch - ETL							



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RUS1001 - Russian for Beginners - TH							
STS4097	Soft Skills	CRB	0	0	0	0	6
STS1001 - Introduction to Soft Skills - SS							
STS1002 - Introduction to Business Communication - SS							
STS2001 - Reasoning Skill Enhancement - SS							
STS2002 - Introduction to Etiquette - SS							
STS3001 - Preparedness for External Opportunities - SS							
STS3004 - Data Structures and Algorithms - SS							
STS3005 - Code Mithra - SS							
STS3006 - Preparedness for External Opportunities - SS							
STS3007 - Preparedness for Career Opportunities - SS							
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BRIDGE COURSE							
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NON CREDIT COURSE							
NNC1900	Non Credit Courses	CRB	0	0	0	0	0
CHY1002 - Environmental Sciences - TH							
EXC4097 - Co/Extra Curricular - ECA							