B.Tech (Electronics and Communication Engineering)
OVERALL CREDIT STRUCTURE

Undergraduate Core (UC)		Undergraduate Elective (UE)	
Category	Credit	Category	Credit
DC	118	DE	50 (Minimum)
BS	38	HM	12(Minimum)
ES	40	OC	50 (Balance)
HM	12	UN	00 (Courses)
Total	208	Total	112
Grand Total UC+UE			320

Course Code	Course	L-T-P	Credit
	Basic Sciences (BS)		
SCL102	Applied Mathematics-I	3-2-0	8
SCL103	Applied Mathematics-II	3-2-0	8
SCL203	Probability & Numerical Methods*	3-0-0	6
SCL104	Applied Physics	3-0-2	8
SCL105	Applied Chemistry	3-0-2	8
	Total		38

Engineering Arts and Sciences (ES)		L-T-P	Credit
CEL101	Engineering Mechanics	3-0-2	8
EEL101	Elementary Electrical Engineering	3-0-2	8
MEL101	Engineering Drawing	3-0-2	8
CSL101	Computer Programming	3-0-2	8
MEP101	Mechanical Workshop	0-0-2	2
EEP101	Electrical Workshop	0-0-2	2
CEL102	Environmental Science	2-0-0	4
	Total		40

Humanities and Management (Core) (HM)		L-T-P	Credit
HMP 102	Spoken English	1-0-2	4
HMP 103	Written English	1-2-0	4
HML 101	Social Science	2-0-0	4
	Total		12

Non Credit Requirement		L-T-P	Credit
NCN101	NCC#	-	0
NCN102	NSS#	-	0
NCN103	NSO#	-	0
SPB101	Sports-1#	0-0-4	0
SPB102	Sports-II#	0-0-4	0
ECD201	Project	-	0
ECD301	Literature Review Paper Writing	-	0
ECT201	Practical Training	-	0
HMD201	Community Project	-	0

Departmental Core (DC)		L-T-P	Credit
ECL201	Electronic Circuits *	3-0-2	8
ECL202	Digital Circuits *	3-0-2	8
ECL203	Signals and Systems*	3-2-0	8
ECL204	Analog Communication *	3-0-2	8
ECL205	Electromagnetic Waves**	3-2-0	8
ECL206	Electronic Materials and Devices*	3-0-0	6
EEL202	Basic electrical circuits*	3-0-2	8
EEL205	Measurement & Instrumentation **	3-0-2	8
CSL202	Computer Organization ***	3-2-0	8
ECL301	Linear Integrated Circuits ***	3-0-2	8
ECL302	Digital Communication ***	3-0-2	8
ECL303	Microwave & Antennas**	3-0-2	8
ECL304	Digital Signal Processing ***	3-0-2	8
ECL305	Microcontroller and Interfacing *	3-0-2	8
EEL302	Control System **	3-0-2	8

Departmental Elective (DE)		L-T-P	Credit
CSL203	Concepts in Programming Languages	3-0-2	8
CSL302	Operating Systems	3-0-2	8
CSL303	Computer Networks	3-0-2	8
CSL304	System Programming	3-0-2	8
CSL310	Computer Graphics	3-0-2	8
EEL303	Power Electronics	3-0-2	8
ECL402	Finite Automata	3-2-0	8
ECL403	Hardware Description Language	3-0-2	8
ECL404	Industrial Electronics	3-0-0	6
ECL405	Adaptive Signal Processing	3-2-0	8
ECL406	Wireless Digital Communication	3-0-2	8
ECL408	Radio Frequency and Microwave Engineering	3-2-0	8
ECL409	Radio Frequency Circuit	3-2-0	8
ECL410	Image Processing	3-2-0	8
ECL412	VLSI Technology	3-0-2	8
ECL413	Micro Electromechanical Systems	3-0-2	8
ECL414	Electronic System Design	3-0-2	8
ECL415	Biomedical Instrumentation	3-0-0	6
MEL411	Robotics	3-0-2	8
ECD401	Major Project Part-I	-	2
ECD402	Major Project Part-II	-	6

#A student has to opt at least one from NCC, NSS, NSO and sports (I & II both).

Note: Students are required to opt the core courses in the order (*, **, ***)