

Course Structure: B.Tech. (Electronics Engineering)
Valid for students admitted from year 2023 onwards

Semester 3:

S.No.	Course Catag	Course No.	Course title	Contact Periods			Credits	Marks			Total
				L	T	P		Course-Work	Mid-Sem	End-Sem	
1	BS	AMS2512	Higher Mathematics	3	1	0	4	15	25	60	100
2	BS	AMS2522	Numerical Methods and Optimization	3	0	0	3	15	25	60	100
3	PC	ELC2112	Electronic Devices & Circuits	3	1	0	4	15	25	60	100
4	PC	ELC2122	Circuit Theory	3	1	0	4	15	25	60	100
5	PC	ELC2312	Logic Circuits	3	1	0	4	15	25	60	100
6	PC	ELC2412	Signals and Systems	3	1	0	4	15	25	60	100
7	PC	ELC2942	Electronic Circuits Lab	0	0	3	1.5	60		40	100

TOTAL CREDITS: 24.5

Semester 4:

S.No.	Course Catag	Course No.	Course title	Contact Periods			Credits	Marks			Total
				L	T	P		Course-Work	Mid-Sem	End-Sem	
1	ESA	COA2602	Data Structures and Programming	2	1	0	3	15	25	60	100
2	ESA	EEA2012	Electrical Engineering	3	0	0	3	15	25	60	100
3	ESA	ELA2432	Representation and Analysis of Random Sigr	3	0	0	3	15	25	60	100
4	PC	ELC2132	Digital Electronics	3	0	0	3	15	25	60	100
5	PC	ELC2152	Analog Electronics	3	1	0	4	15	25	60	100
6	PC	ELC2512	Electromagnetics	3	1	0	4	15	25	60	100
7	PC	ELC2952	Digital Electronics Lab	0	0	3	1.5	60		40	100
8	PC	ELC2962	Circuit Simulation Lab	0	0	3	1.5	60		40	100

TOTAL CREDITS: 23

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Semester 5:

S.No.	Course Catag	Course No.	Course title	Contact Periods			Credits	Marks			Total
				L	T	P		Course-Work	Mid-Sem	End-Sem	
1	PC	ELC3212	Control Systems	3	1	0	4	15	25	60	100
2	PC	ELC3332	Embedded System	3	1	0	4	15	25	60	100
3	PC	ELC3442	Principles of Communication Systems	3	1	0	4	15	25	60	100
4	PC	ELC3512	Microwaves & Antennas	3	1	0	4	15	25	60	100
5	PC	ELC3612	VLSI Design & Technology	3	1	-	4	15	25	60	100
6	PC	ELC3622	Digital System Design	3	0	0	3	15	25	60	100
7	PC	ELC3922	Communication Lab - I	0	0	3	1.5	60		40	100
8	PC	ELC3952	VLSI Design Lab	0	0	3	1.5	60		40	100

TOTAL CREDITS: 26

Semester 6:

S.No.	Course Catag	Course No.	Course title	Contact Periods			Credits	Marks			Total
				L	T	P		Course-Work	Mid-Sem	End-Sem	
1	PC	ELC3122	Analog Signal Processing	3	1	0	4	15	25	60	100
2	PC	ELC3422	Digital Communications	3	1	0	4	15	25	60	100
3	PC	ELC3432	Digital Signal Processing	3	1	0	4	15	25	60	100
4	PC	ELC3942	Communication Lab - II	0	0	3	1.5	60		40	100
5	PC	ELC3962	Embedded System Lab	0	0	3	1.5	60		40	100
6	PSI	ELP3992	Mini Project	0	0	6	3	60		40	100
7	HM	MEH3452	Engineering Economy & Management	3	0	0	3	15	25	60	100
8	DE		Departmental Elective-1				3	15	25	60	100

TOTAL CREDITS: 24

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Semester 7:

S.No.	Course Catag	Course No.	Course title	Contact Periods			Credits	Marks			Total
				L	T	P		Course-Work	Mid-Sem	End-Sem	
1	ESA	ELA4342	Computer Architecture	3	0	0	3	15	25	60	100
2	PC	ELC4412	Communication Networks	3	1	0	4	15	25	60	100
3	PC	ELC4922	Digital Signal Processing Lab	0	0	3	1.5	60		40	100
4	PSI	ELP4982	Project Phase - I	0	0	8	4	60		40	100
5	DE		Departmental Elective-2				3	15	25	60	100
6	DE		Departmental Elective-3				3	15	25	60	100
7	OE		Open Elective-1				3	15	25	60	100
8	HM		Elective Course under Humanities category				3	15	25	60	100

TOTAL CREDITS: 24.5

Semester 8:

S.No.	Course Catag	Course No.	Course title	Contact Periods			Credits	Marks			Total
				L	T	P		Course-Work	Mid-Sem	End-Sem	
1	PSI	ELP4802	Industrial Training/Internship				2			100	100
2	PSI	ELP4992	Project Phase - II	0	0	8	4	60		40	100
3	DE		Departmental Elective-4				3	15	25	60	100
4	DE		Departmental Elective-5				3	15	25	60	100
5	OE		Open Elective-2				3	15	25	60	100

TOTAL CREDITS: 15

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List of Departmental Elective (DE) Courses:

S.No.	Crs. No.	Course title	S.No.	Crs. No.	Course title
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SUMMARY:

Catagory Code	Category Name	II-IV Year Credits	First Year Credits	Total Credits
DC	Departmental Core	78	0	78
DE	Departmental Elective	15	0	15
BS	Basic Sciences	7	19	26
ESA	Engg. Science and Arts	12	19	31
OE	Open Elective	6	0	6
HM	Humanities	6	5	11
PSI	Project, Seminar, Internship	13	0	13
TOTAL		137	43	180