

Curriculum Structure for UG Electronics Engineering (applicable for batch entered into 2023-24)

Curriculum Structure for UG Electronics Engineering (applicable for batch entered into 2023-24)															
F.Y.	B.Tech. Electronics AY 2023-24														
Sr. No.	Sem	NEP Category	NEP Category	Code	Course Name	L	T	P	Hr	Cr	MSE/LA1	ISE/LA2	ESE	OE	POE
1	1	Basic Science Course	BSC	7MA101	Engineering Mathematics - I	3	1	0	4	4	30	20	50		
2	1	Basic Science Course	BSC	7CH102	Engineering Chemistry	3	0	0	3	3	30	20	50		
3	1	Engineering Science Course	ESC	7ME108	Engineering Graphics	1	0	2	3	2	30	20	50		
4	1	Multy Disp. Minor	MDM	7EL106	Basic Electrical Engineering	3	0	0	3	3	30	20	50		
5	1	Engineering Science Course	ESC	7CS107	Computer Programming	2	0	2	4	3	30	20	50		
6	1	Basic Science Course	BSC	7CH155	Engineering Chemistry Lab	0	0	2	2	1	30	30	40		
7	1	Multy Disp. Minor	MDM	7EL156	Basic Electrical Engineering Lab	0	0	2	2	1	30	30	40		
8	1	Professionial Core Course	PCC	7EN101	Analog Electronics	3	0	0	3	3	30	20	50		
9	1	Professionial Core Course	PCC	7EN151	Analog Electronics Lab	0	0	2	2	1	30	30	40		
10	1	Vocational Skill Enhancement Course	VSEC	7VS152	Engineering Skills- II	0	0	2	2	1	30	30	40		
Total						15	1	12	28	22					
Sr. No.	Sem	NEP Category	NEP Category	Code	Course Name	L	T	P	Hr	Cr	MSE/LA1	ISE/LA2	ESE	OE	POE
11	2	Basic Science Course	BSC	7MA103	Engineering Mathematics - II	3	1	0	4	4	30	20	50		
12	2	Basic Science Course	BSC	7PH102	Engineering Physics	3	0	0	3	3	30	20	50		
13	2	Engineering Science Course	ESC	7AM102	Engineering Mechanics	2	0	0	2	2	30	20	50		
14	2	Multy Disp. Minor	MDM	7CM106	Civil & Mechanical Engineering	3	0	0	3	3	30	20	50		
15	2	Ability Enhancement Course	AEC	7HS101	Communication & Generic Skills	1	0	2	3	2	30	20	50		
16	2	Basic Science Course	BSC	7PH155	Engineering Physics Lab	0	0	2	2	1	30	30	40		
17	2	Engineering Science Course	ESC	7AM155	Engineering Mechanics Lab	0	0	2	2	1	30	30	40		
18	2	Multy Disp. Minor	MDM	7CM156	Civil & Mechanical Engineering Lab	0	0	2	2	1	30	30	40		
19	2	Professionial Core Course	PCC	7EN102	Digital Electronics	3	0	0	3	3	30	20	50		
20	2	Vocational Core Course	PCC	7EN152	Digital Electronics Lab	0	0	2	2	1	30	30	40		
21	2	Vocational Skill Enhancement Course	VSEC	7VS151	Engineering Skills - I	0	0	2	2	1	30	30	40		
Total						15	1	12	28	22					
S.Y.	B.Tech. Electronics AY 2024-25 onwards														
Sr. No.	Sem	NEP Category	NEP Category	Code	Course Name	L	T	P	Hr	Cr	MSE/LA1	ISE/LA2	ESE	OE	POE
1	3	Basic Science Course	BSC	7MA204	Mathematics for Electronics Engg.	3	0	0	3	3	30	20	50		
2	3	Indian Knowledge System	IKS	Refer List	IKS Elective	2	0	0	2	2	30	20	50		
3	3	Ability Enhancement Course	EEM	7EE201	Understanding Incubation and Enterpreneurship (NPTEL)	3	0	0	3	3	30	20	50		
4	3	Professionial Core Course	PCC	7EN201	Circuit Theory	3	0	0	3	3	30	20	50		
5	3	Professionial Core Course	PCC	7EN202	Electronic circuit analysis and Design	3	0	0	3	3	30	20	50		
6	3	Professionial Core Course	PCC	7EN203	Digital System and Microprocessor	3	0	0	3	3	30	20	50		
7	3	Professionial Core Course	PCC	7EN204	Electronic Instrumentation	2	0	0	2	2	30	20	50		
8	3	Professionial Core Course	PCC	7EN251	Electronic circuit analysis and Design Lab	0	0	2	2	1	30	30	40		
9	3	Professionial Core Course	PCC	7EN252	Digital System and Microprocessor Lab	0	0	2	2	1	30	30	40		
10	3	Professionial Core Course	PCC	7EN253	Data Structure and Algorithm Lab	1	0	2	3	2	30	30	40		
Total						20	0	6	26	23					
Sr. No.	Sem	NEP Category	NEP Category	Code	Course Name	L	T	P	Hr	Cr	MSE/LA1	ISE/LA2	ESE	OE	POE

11	4	Engineering Science Course	ESC	7ES201	Signals and Systems	3	0	0	3	3	30	20	50		
12	4	Entrepreneurship/Economics/	AEC	7AE201	Employability Skills	2	0	0	2	2	30	20	50		
13	4	Value Education Course	VEC	7VE201	Value Education	2	0	0	2	2	30	20	50		
14	4	Professional Core Course	PCC	7EN221	Integrated Circuits and Applications	3	0	0	3	3	30	20	50		
15	4	Multy Disp. Minor	MDM	Refer List	MDM	3	0	0	3	3	30	20	50		
16	4	Professional Core Course	PCC	7EN222	Communication Engineering	3	0	0	3	3	30	20	50		
17	4	Professional Core Course	PCC	7EN223	Microcontroller and Peripheral Interfacing	3	0	0	3	3	30	20	50		
18	4	Professional Core Course	PCC	7EN271	Integrated Circuits and Applications Lab	0	0	2	2	1	30	30	40		
19	4	Professional Core Course	PCC	7EN272	Communication Engineering Lab	0	0	2	2	1	30	30	40		
20	4	Professional Core Course	PCC	7EN273	Microcontroller and Peripheral Interfacing Lab	0	0	2	2	1	30	30	40		
21	4	Vocational Skill Enhancement Course	VSEC	7VSEN271	Python Programming	0	0	2	2	1	30	30	40		
Total						19	0	8	27	23					
	T.Y.	B.Tech. Electronics AY 2025-26 onwards													
Sr. No.	Sem	NEP Category	NEP Category	Code	Course Name	L	T	P	Hr	Cr	MSE/LA1	ISE/LA2	ESE	OE	POE
22	5	Multy Disp. Minor	MDM	Refer List	MDM	3	0	0	3	3	30	20	50		
23	5	Open Elective	OE	Refer List	Open Elective - 1	3	0	0	3	3	30	20	50		
24	5	Entrepreneurship/Economics/	EEM	7EE301	Finance for Engineering	2	0	0	2	2	30	20	50		
25	5	Professional Core Course	PCC	7EN301	Digital Signal Processing	3	0	0	3	3	30	20	50		
26	5	Professional Core Course	PCC	7EN302	Embedded System Design	3	0	0	3	3	30	20	50		
27	5	Professional Core Course	PCC	7EN303	Control System	3	0	0	3	3	30	20	50		
28	5	Professional Elective Course	PEC	Refer List	Program Elective - 1	3	0	0	3	3	30	20	50		
29	5	Professional Core Course	PCC	7EN351	Digital Signal Processing Lab	0	0	2	2	1	30	30	40		
30	5	Professional Core Course	PCC	7EN352	Embedded System Design Lab	0	0	2	2	1	30	30	40		
31	5	Professional Core Course	PCC	7EN353	Control System Lab	0	0	2	2	1	30	30	40		
Total						20	0	6	26	23					
Sr. No.	Sem	NEP Category	NEP Category	Code	Course Name	L	T	P	Hr	Cr	MSE/LA1	ISE/LA2	ESE	OE	POE
32	6	Professional Elective Course	PEC	Refer List	Program Elective - 2	2	0	0	2	2	30	20	50		
33	6	Multy Disp. Minor	MDM	Refer List	MDM	3	0	2	5	4	30	20	50		
34	6	Open Elective	OE	Refer List	Open Elective - 2	3	0	0	3	3	30	20	50		
35	6	Professional Core Course	PCC	7EN321	Electromagnetic Engineering	3	0	0	3	3	30	20	50		
36	6	Professional Core Course	PCC	7EN322	Power Electronics	3	0	0	3	3	30	20	50		
37	6	Professional Core Course	PCC	7EN323	Digital System Architecture	3	0	0	3	3	30	20	50		
38	6	Professional Core Course	PCC	7EN371	Power Electronics Lab	0	0	2	2	1	30	30	40		
39	6	Professional Core Course	PCC	7EN372	Digital System Architecture Lab	0	0	2	2	1	30	30	40		
40	6	Professional Elective Course	PEC	Refer List	Professional Elective 2 Lab	0	0	2	2	1	30	30	40		
41	6	Community Engagement Project /	CEP/FP	7CEEN345	Mini Project (Field Project)	0	0	2	2	1	30	30	40		
Total						17	0	10	27	22					
	Final.Y.	B.Tech. Electronics AY 2026-27 onwards													
Sr. No.	Sem	NEP Category	NEP Category	Code	Course Name	L	T	P	Hr	Cr	MSE/LA1	ISE/LA2	ESE	OE	POE
42	A	Professional Elective Course	PEC	Refer List	Program Elective - 3	3	0	0	3	3	30	20	50		
43	A	Multy Disp. Minor	MDM	Refer List	MDM	3	0	2	5	4	30	20	50		
44	A	Professional Core Course	PCC	7EN401	Real Time Operating System	3	0	0	3	3	30	20	50		
45	A	Professional Core Course	PCC	7EN402	Microwave Communication Engineering	3	0	0	3	3	30	20	50		

46	A	Professional Core Course	PCC	7EN451	Real Time Operating System Lab	0	0	2	2	1	40	40	40		
47	A	Professional Core Course	PCC	7EN452	Microwave Communication Engineering Lab	0	0	2	2	1	40	40	40		
48	A	Value Education Course	VEC	7VE401	Environmental Science	2	0	0	2	2	30	20	50		
49	A	Research Project	PROJECT	7EN491	Project	0	0	12	12	6	30	30	40		
		Total				14	0	18	32	23					
				Sem B											
Sr. No.	Sem	NEP Category	NEP Category	Code	Course Name	L	T	P	Hr	Cr	MSE/LA1	ISE/LA2	ESE	OE	POE
50	B	Professional Elective Course	PEC	Refer list	Program Elective - 4	3	0	0	0	3	30	20	50		
51	B	Professional Elective Course	PEC	Refer list	Program Elective - 5	2	0	0	0	2	30	20	50		
52	B	Research Methodology	RM	7RM401	Research Methodology	2	0	0	2	2	30	20	50		
53	B	Co-curricular Course Activity	CCA	7CC401	Techno Socio Activities	0	0	2	2	1	30	30	40		
54	B	INTERNSHIP	INTERNSHIP	7EN445	Internship	0	0	0	0	8	30	30	40		
		Total				2	0	2	4	16					
										Total Credits:	174				