

B.Tech ECE
Scheme
IIIT Nagpur
(2023 Batch Onwards)

IIIT Nagpur New Scheme for B.Tech ECE || 2023 Batch Onwards

Year	Semester	Course Code	Course Name	Type	L	T	P	Credits
FIRST YEAR								
1	1	MAL 103	Calculus for Engineers	BS	3	1	0	4
1	1	BEL 102	Elements of Electrical Engineering	BS	3	0	2	4
1	1	BEL 101	Mechanics & Graphics	BS	3	0	2	4
1	1	CSL 101	Computer Programming	DC	3	0	2	4
1	1	ECL 101	Electronic Devices and Circuits	DC	3	0	2	4
1	1	HUL 101	Communication Skills	HU	2	0	2	3
Sub Total					17	1	10	23
1	2	MAL 104	Matrices, Transform Techniques and Differential Equations	BS	3	1	0	4
1	2	ASL 101	Applied Sciences	BS	3	0	2	4
1	2	ECL 102	Digital Electronics	DC	3	0	2	4
1	2	CSL 102	Data Structures	DC	3	0	2	4
1	2	HUL 102	Environmental Studies	HU	2	0	0	2
1	2	CSL 103	Application Programming	DC	3	0	2	4
1	2	SAP 101	Health, Sports and Safety	HU	0	0	2	0
Sub Total					17	1	10	22
Total					34	2	20	45
SECOND YEAR								
2	3	MAL 201	Numerical Methods and Probability Theory	BS	3	1	0	4
2	3	ECL 201	Signals and Systems	DC	3	0	2	4
2	3	ECL 202	Microprocessors and Interfacing	DC	3	0	2	4
2	3	ECL 203	Analog ICs	DC	3	0	2	4
2	3	ECL 204	Network Theory	DC	3	0	2	4
2	3	CSP 201	IT Workshop- I	DC	0	0	4	2
Sub Total					15	1	12	22
2	4	ECL 301	Digital Signal Processing	DC	3	0	2	4
2	4	ECL 302	Analog Communication	DC	3	0	2	4
2	4	ECL 304	Control Systems	DC	3	0	0	3
2	4	ECL 305	Electromagnetics	DC	3	0	0	3

2	4	ECL 306	Computer Architecture and Organisation	DC	3	0	0	3
2	4	CSP 202	IT Workshop- II	DC	0	0	4	2
Sub Total					15	0	8	19
Total					30	1	20	41

Year	Semester	Course Code	Course Name	Type	L	T	P	Credits
THIRD YEAR								
3	5	ECL 303	Hardware Description Languages	DC	3	0	2	4
3	5	ECL 307	Waveguides and Antennas	DC	3	0	0	3
3	5	ECL 308	Embedded Systems	DC	3	0	2	4
3	5	ECL 320	Digital Communication	DC	3	0	2	4
3	5		Open Course - I	OC	3	0	0	3
Sub Total					15	0	6	18
3	6	ECL 311	Wireless Communication	DC	3	0	2	4
3	6	ECL 312	CMOS Design	DC	3	0	2	4
3	6		Open Course - II	OC	3	0	0	3
3	6		Departmental Elective	DE	3	0	0	3
3	6		Departmental Elective	DE	3	0	2	4
Sub Total					15	0	6	18
Total					30	0	12	36
FINAL YEAR								
4 th	7 th		Elective - III	DE	3	0	0	3
4 th	7 th		Elective – IV	DE	3	0	0	3
4 th	7 th		Elective - V	DE	3	0	0/2	3/4
4 th	7 th		Elective – VI	DE	3	0	0/2	3/4
4 th	7 th		OPEN / MOOC course	OC	3	0	0	3
4 th	7 th	ECD 403	Project	DE	0	0	16	8
4 th	7 th	OR						
4 th	7 th	ECD 402	Internship	DE	0	0	16	8
Sub Total					15/0	0	16(20)/16	23(25)/8
4 th	8 th	ECD 402	Internship	DE	0	0	16	8
4 th	8 th	OR						
4 th	8 th	ECD 403/ECD 404	Project/ Internship-II	DE	0	0	16	8
	8 th		Elective –III	DE	3	0	0	3

4 th	8 th		Elective – IV	DE	3	0	0	3
4 th	8 th		Elective - V	DE	3	0	0/2	3/4
4 th	8 th		Elective – VI	DE	3	0	0/2	3/4
4 th	8 th		OPEN / MOOC course	OC	3	0	0	3
Sub Total					15/0	0	16(20)/16	23(25)/8
Total								31/33
GRAND TOTAL								153/155

Sem	Credits
1	23
2	22
3	22
4	19
5	18
6	18
7&8	31/33
TOTAL	153/155

Type	Credits
BS	16
ES	08
HU	05
OC	09
DC	80
DE	35
TOTAL	153/155