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	ES	3	0	2	4
1	1	BEL 101	Mechanics & Graphics	ES	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 205	Digital Signal Processing	DC	3	0	2	4
2	4	ECL 206	Analog Communication	DC	3	0	2	4
2	4	ECL 207	Control Systems	DC	3	0	0	3
2	4	ECL 208	Electromagnetics	DC	3	0	0	3

2	4	ECL 209	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	ECD 302	Mini Project	DC	0	0	2	1
3	6		Open Course - II	OC	3	0	0	3
3	6		Departmental Elective - I	DE	3	0	0	3
3	6		Departmental Elective - II	DE	3	0	2	4
Sub Total					**15**	**0**	**8**	**19**
Total					**30**	**0**	**14**	**37**
FINAL YEAR								
4th	7th		Departmental Elective - III	DE	3	0	0	3
4th	7th		Departmental Elective - IV	DE	3	0	0	3
4th	7th		Departmental Elective - V	DE	3	0	0/2	3/4
4th	7th		Departmental Elective - VI	DE	3	0	0/2	3/4
4th	7th		OPEN / MOOC course	OC	3	0	0	3
4th	7th	ECD 403	Project	DE	0	0	16	8
4th	7th	**OR**						
4th	7th	ECD 402	Internship	DE	0	0	16	8
Sub Total					**15/0**	**0**	**16(20)/16**	**23(25)/8**
4th	8th	ECD 402	Internship	DE	0	0	16	8
4th	8th	**OR**						
4th	8th	ECD 403/ECD 404	Project/ Internship-II	DE	0	0	16	8

	8th		Departmental Elective - III	DE	3	0	0	3
4th	8th		Departmental Elective - IV	DE	3	0	0	3
4th	8th		Departmental Elective - V	DE	3	0	0/2	3/4
4th	8th		Departmental Elective - VI	DE	3	0	0/2	3/4
4th	8th		OPEN / MOOC course	OC	3	0	0	3
Sub Total					**15/0**	**0**	**16(20)/16**	**23(25)/8**
Total								**31/33**
GRAND TOTAL								**154/156**

Sem	Credits
1	**23**
2	**22**
3	**22**
4	**19**
5	**18**
6	**19**
7&8	**31/33**
TOTAL	**154/156**

Type	Credits
BS	**16**
ES	**08**
HU	**05**
OC	**09**
DC	**81**
DE	**35/37**
TOTAL	**154/156**