

New (2022 Batch Onwards)

B.Tech ECE

Scheme

IIIT Nagpur

IIIT Nagpur New Scheme for B.Tech ECE || 2022 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	12	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 & Safety	HU	0	0	2	0
Sub Total					17	1	8	22
Total					34	2	20	45
SECOND YEAR								
2	3	MAL 201	Numerical Methods & Probability Theory	BS	3	1	0	4
2	3	ECL 201	Signals and Systems	DC	3	0	2	4
2	3	ECL 202	Microprocessors & 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 & 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 & 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	4	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		Elective - I	DE	3	0	0	3
3	6		Elective – II	DE	3	0	2	4
Sub Total					15	0	6	18
Total					30	0	10	36
FINAL YEAR								
4 th	7 th		Elective - III	DE	3	0	0	3
4 th	7 th		Elective – IV	DE	3	0	2	4
4 th	7 th		Elective - V	DE	3	0	2	4
4 th	7 th		Elective – VI	DE	3	0	0	3
4 th	7 th		OPEN / MOOC course	OC	3	0	0	3
4 th	7 th	ECD 403	Project Phase - 1	DE	0	0	2	2
4 th	7 th							OR
4 th	7 th	ECD 403	Project Phase - 1	DE	0	0	2	2
4 th	7 th	ECD 402	Industry Internship Project	DE	0	0	0	6
Sub Total					12	0	7	19/8 *
4 th	8 th	ECD 404	Project Phase - 2	DE	0	0	6	6
4 th	8 th	ECD 402	Industry Internship Project	DE	0	0	0	6
4 th	8 th							OR
4 th	8 th		Elective - III	DE	3	0	0	3
4 th	8 th		Elective – IV	DE	3	0	2	4
4 th	8 th		Elective - V	DE	3	0	2	4
4 th	8 th		Elective – VI	DE	3	0	0	3
4 th	8 th		OPEN / MOOC course	OC	3	0	0	3
4 th	8 th	ECD 404	Project Phase - 2	DE	0	0	6	6
Sub Total					15	0	7	23/12 *
Total								31
GRAND TOTAL								153

* Same choice cannot be repeated for 7th & 8th Semester.

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

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