

IIIT Nagpur Scheme for B.Tech ECE

Year	Semester	Course Code	Course Name	Type	L	T	P	Credits
FIRST YEAR								
1 ST	1 ST	MAL 101	Mathematics-I	BS	3	1	0	4
1 ST	1 ST	BEL 102	Elements of Electrical Engineering	ES	3	0	2	4
1 ST	1 ST	BEL 101	Mechanics & Graphics	ES	3	0	2	4
1 ST	1 ST	CSL 101	Computer Programming	DC	3	0	2	4
1 ST	1 ST	ECL 101	Analog Electronics	DC	3	0	2	4
1 ST	1 ST	HUL 101	Communication Skills	HU	2	0	2	3
1 ST	1 ST	SAP 101	Health, Sports & Safety	HU	0	0	2	0
Sub Total					17	1	12	23
1 ST	2 nd	MAL 102	Mathematics-II	BS	3	1	0	4
1 ST	2 nd	BSL 101	Applied Sciences	BS	3	0	2	4
1 ST	2 nd	ECL 102	Digital Electronics	DC	3	0	2	4
1 ST	2 nd	CSL 102	Data Structures	DC	3	0	2	4
1 ST	2 nd	HUL 102	Environmental Studies	HU	2	0	0	2
1 ST	2 nd	CSL 103	Application Programming	DC	3	0	2	4
Sub Total					17	1	8	22
Total								45
SECOND YEAR								
2 nd	3 rd	MAL 201	Mathematics-III	BS	3	1	0	4
2 nd	3 rd	ECL 201	Signals and Systems	DC	3	0	0	3
2 nd	3 rd	ECL 202	Microprocessors & Interfacing	DC	3	0	2	4
2 nd	3 rd	ECL 203	Analog ICs	DC	3	0	2	4
2 nd	3 rd	ECL 204	Network Theory	DC	3	0	2	4
2 nd	3 rd	ECL 205	Electronic Engineering Materials	DC	3	0	0	3
2 nd	3 rd		Open Course - I	OC	3	0	0	3
Sub Total					21	1	6	25
2 nd	4 th	ECL 301	Digital Signal Processing	DC	3	0	2	4
2 nd	4 th	ECL 302	Analog Communication	DC	3	0	2	4
2 nd	4 th	ECL 303	Hardware description languages	DC	3	0	2	4
2 nd	4 th	ECL 304	Control Systems	DC	3	0	2	4
2 nd	4 th	ECL 305	Electromagnetics	DC	3	0	0	3
2 nd	4 th		Computer Architecture & Organisation	DC	3	0	0	3
2 nd	4 th		Open Course - II	OC	3	0	0	3
Sub Total					21	0	8	25
Total					42	1	14	50

Year	Semester	Course Code	Course Name	Type	L	T	P	Credits
THIRD YEAR								
3 rd	5 th	ECL 306	Digital Communication	DC	3	0	2	4
3 rd	5 th	ECL 307	Waveguides & Antennas	DC	3	0	0	3
3 rd	5 th	ECL 308	Embedded Systems	DC	3	0	2	4
3 rd	5 th	ECL 309	Electronic Instrumentation	DC	3	0	0	3
3 rd	5 th	ECL 310	Devices & Modelling	DC	3	0	0	3
3 rd	5 th		Elective - I	DE	3	0	0	3
3 rd	5 th		Elective - II	DE	3	0	0	3
Sub Total					21	0	4	23
3 rd	6 th	ECL 311	Wireless Digital Communication	DC	3	0	0	3
3 rd	6 th	ECL 312	Electronic System Design	DC	3	0	2	4
3 rd	6 th		Elective - III	DE	3	0	2	4
3 rd	6 th		Elective - IV	DE	3	0	2	4
3 rd	6 th		Elective - V	DE	3	0	0	3
3 rd	6 th		Elective – VI	DE	3	0	0	3
3 rd	6 th		Elective – VII	DE	3	0	0	3
Sub Total					21	0	6	24
Total					42	0	10	48
FINAL YEAR								
4 th	7 th		Elective - VIII	DE	3	0	2	4
4 th	7 th		Elective – IX	DE	3	0	2	4
4 th	7 th		Elective - X	DE	3	0	0	3
4 th	7 th		Elective – XI	DE	3	0	0	3
4 th	7 th	ECL 401	In – House Project	DE	0	0	4	8
4 th	7 th		OR					
4 th	7 th	ECL 402	Industry Internship Project	DE	0	0	0	6
Sub Total					12	0	8	22/6 *
4 th	8 th	ECL 402	Industry Internship Project	DE	0	0	0	6
4 th	8 th		OR					
4 th	8 th		Elective - VIII	DE	3	0	2	4
4 th	8 th		Elective – IX	DE	3	0	2	4
4 th	8 th		Elective - X	DE	3	0	0	3
4 th	8 th		Elective – XI	DE	3	0	0	3
4 th	8 th	ECL 401	In – House Project	DE	0	0	4	8
Sub Total					12	0	8	6/22 *
Total								28
GRAND TOTAL								170

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

Type	Credits
BS	16
ES	08
HU	05
C	06
DC	84
DE	51
TOTAL	170