

Curriculum for Dual Degree

B.Tech in Electronics and Communication Engineering and M.Tech in Communication Systems

From The Academic Year 2023

(Approved in Senate 51)



Indian Institute of Information Technology Design and Manufacturing, Kancheepuram

Chennai-600 127

Semester 5							
S.No	Course Code	Course Name	Category	L	T	P	C
1	CS3006	Introduction to Data Science for Engineers	ITC	3	0	2	4
2	DS3000	Entrepreneurship and Management Functions	DSC	1	2	0	3
3	EC3000	Control Systems	PCC	3	1	0	4
4	EC3001	Communication Systems	PCC	3	1	0	4
5		Professional Elective Course 1	PEC	3	1	0	4
6	EC3002	Digital Signal Processing Practice	PCC	0	0	3	1.5
7	EC3003	Analog Circuits Practice	PCC	0	0	3	1.5
8	NC3000	Professional Ethics and Organizational Behaviour	NC	1	0	0	0
							22
Semester 6							
S.No	Course Code	Course Name	Category	L	T	P	C
1	DS3001	Prototyping and Testing	DSC	1	2	0	3
2	EC3004	Digital Communication	PCC	3	1	0	4
3		Professional Elective Course 2	PEC	3	1	0	4
4		Free Elective Course 1	ELC	3	1	0	4
5		Free Elective Course 2	ELC	3	1	0	4
6	EC3005	Communication Systems Practice	PCC	0	0	2	1
7	HS3000	Professional Communication	HSC	1	0	2	2
8	NC3001	Intellectual Property Rights	NC	1	0	0	0
							22
Semester 7							
S.No	Course Code	Course Name	Category	L	T	P	C
1	EC5028	Mathematics for Communication	PCC	3	1	0	4
2	EC5029	Modelling and Simulation	PCC	2	0	4	4
3	EC5030	Data Communication Networks	PCC	3	1	0	4
4	EC5031	Wireless Communication	PCC	3	1	0	4
5	EC5032	Data Communication Networks Practice	PCC	0	0	4	2
6	EC5033	Wireless Communication Practice	PCC	0	0	4	2
7		Free Elective Course 3	ELC	3	1	0	4
							24
Semester 8							
S.No	Course Code	Course Name	Category	L	T	P	C
1		Free Elective Course 4	ELC	3	1	0	4
2		Professional Elective Course 3	PEC	3	1	0	4
3		Professional Elective Course 4	PEC	3	1	0	4
4		Professional Elective Course 5	PEC	3	1	0	4
5		Professional Elective Course 6	PEC	3	1	0	4
							20
Semester 9							
S.No	Courses Codes	Course Name	Category	L	T	P	C
1	EC6006	DD-EC-CMS- Project Phase I (May-June) (Internship)	PCD	0	0	8	4
2	EC6007	DD-EC-CMS-Project Phase II (Aug – Nov)	PCD	0	0	12	6
							10
Semester 10							
S.No	Courses Codes	Course Name	Category	L	T	P	C
1	EC6008	DD-EC-CMS- Project Phase III (Dec – May)	PCD	0	0	20	10
							10

§ All NC courses are Pass/Fail courses for which the letter grade H/L shall be awarded.

1. Professional Elective Course is an elective course offered or prescribed by the parent department. Free Elective Course is an elective course offered by any department, including the parent department. For example: - A ME student, based on his/her choice, can register the elective course offered by ME department or CSE department as free elective course.

2. 3 Months internship is mandatory, however, the curriculum offers the flexibility to carry out 3-12 Months internship with the approval of the parent department. To satisfy the minimum credit requirement, students opting for long term internship (More than 3 months) are expected to advance a few elective courses and credit a few courses from NPTEL. In line with the guidelines approved by the Senate (Senate 46-07), a B.Tech/DD student can earn a maximum of 9 credits from NPTEL Courses. For all successfully completed NPTEL Courses, the letter grade "H" (Pass) will be awarded and credits of such courses will not be accounted for CGPA calculation.

Semester wise Credit Distribution												
Category	Semester										Total	%
	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10		
Basic Science Course (BSC)	8.5	4	0	0	0	0	0	0	0	0	12.5	6.07
Science Elective Course (SEC)	0	4	4	4	0	0	0	0	0	0	12	5.83
Basic Engineering Course (BEC)	11.5	4	0	0	0	0	0	0	0	0	15.5	7.52
Design Course (DSC)	3	3	3	3	3	3	0	0	0	0	18	8.74
IT Skill Course (ITC)	0	6	0	0	4	0	0	0	0	0	10	4.85
Professional Core Course (PCC)	0	4	17	17	11	5	16	0	0	0	74	35.92
Professional Elective Course (PEC)	0	0	0	0	4	4	4	16	0	0	24	11.65
Elective Course (ELC)	0	0	0	0	0	8	4	4	0	0	16	7.77
Humanities and Social Science Course (HSC)	2	0	0	0	0	2	0	0	0	0	4	1.94
Professional Career Development (PCD)	0	0	0	0	0	0	0	0	10	10	20	9.71
Total	25	25	24	24	22	22	24	20	10	10	206	100
	25	50	74	98	120	142	166	186	196	206		