

Curriculum for Dual Degree

B.Tech Computer Science and Engineering and M.Tech in Computer Science and Engineering

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	Courses 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	CS3000	Operating Systems	PCC	3	1	0	4
4	CS3001	Computer Networks	PCC	3	1	0	4
5	CS3002	Compiler Design	PCC	3	1	0	4
6	CS3003	Operating Systems practice	PCC	0	0	4	2
7	CS3004	Computer Networks practice	PCC	0	0	4	2
8	CS3005	Compiler Design Practice	PCC	0	0	4	2
9	NC3000	Professional Ethics and Organizational Behaviour	NC	1	0	0	0
							25
Semester 6							
S.No	Courses Code	Course Name	Category	L	T	P	C
1	DS3001	Prototyping and Testing	DSC	1	2	0	3
2		Professional Elective Course 1	PEC	3	1	0	4
3		Professional Elective Course 2	PEC	3	1	0	4
4		Professional Elective Course 3	PEC	3	1	0	4
5		Free Elective Course 1	ELC	3	1	0	4
6		Free Elective Course 2	ELC	3	1	0	4
7	HS3000	Professional Communication	HSC	1	0	2	2
8	NC3001	Intellectual Property Rights	NC	1	0	0	0
							25
Semester 7							
S.No	Courses Code	Course Name	Category	L	T	P	C
1	CS5010	Analytics and Systems of Big Data	PCC	3	0	2	4
2	CS5011	Information Security	PCC	3	1	0	4
3	CS5012	Interactive Computer Graphics	PCC	3	0	2	4
4		Professional Elective Course 4	PEC	3	1	0	4
5		Free Elective Course 3	ELC	3	1	0	4
6		Free Elective Course 4	ELC	3	1	0	4
							24
Semester 8							
S.No	Courses Code	Course Name	Category	L	T	P	C
1	CS5013	High Performance Computing	PCC	3	0	2	4
2	CS5014	Software Engineering and Testing	PCC	3	1	0	4
3	CS5015	Human Computer Interaction	PCC	3	0	2	4
4		Free Elective Course 5	ELC	3	1	0	4
5		Professional Elective Course 5	PEC	3	1	0	4
6		Professional Elective Course 6	PEC	3	1	0	4
							24
Semester 9							
S.No	Courses Code	Course Name	Category	L	T	P	c
1	CS6003	DD-CS- Project Phase I (May – July)(Internship)	PCD	0	0	8	4
2	CS6004	DD-CS-Project Phase II (Aug – Nov)	PCD	0	0	12	6
							10
Semester 10							
S.No	Courses Code	Course Name	Category	L	T	P	C
1	CS6005	DD-CS-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	5.8
Science Elective Course (SEC)	0	4	4	4	0	0	0	0	0	0	12	5.6
Basic Engineering Course (BEC)	11.5	4	0	0	0	0	0	0	0	0	15.5	7.2
Design Course (DSC)	3	3	3	3	3	3	0	0	0	0	18	8.4
IT Skill Course (ITC)	0	6	0	0	4	0	0	0	0	0	10	4.7
Professional Core Course (PCC)	0	4	16	16	18	0	12	4	0	0	70	32.7
Professional Elective Course (PEC)	0	0	0	0	0	12	4	16	0	0	32	15
Elective Course (ELC)	0	0	0	0	0	8	8	4	0	0	20	9.3
Humanities and Social Science Course (HSC)	2	0	0	0	0	2	0	0	0	0	4	1.9
Professional Career Development (PCD)	0	0	0	0	0	0	0	0	10	10	20	9.3
Total	25	25	23	23	25	25	24	24	10	10	214	100
	25	50	73	96	121	146	170	194	204	214	214	