

# Curriculum for B.Tech

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Smart Manufacturing

From The Academic Year 2020

(Approved in Senate 43 & 44)



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	ME3004	Operations and Supply Chain Management	PCC	3	0	0	3
4	ME3005	Robotics and Automation	PCC	3	0	0	3
5		Professional Elective Course 1	PEC	3	1	0	4
6	ME3006	Quality Engineering	PCC	2	0	2	3
7	ME3007	Robotics and Automation Practice	PCC	0	0	2	1
8	NC3000	Professional Ethics and Organizational Behaviour	NC	1	0	0	0
							21
Semester 6							
S.No	Course Code	Course Name	Category	L	T	P	C
1	DS3001	Prototyping and Testing	DSC	1	2	0	3
2		Professional Elective Course 2	PEC	3	1	0	4
3		Professional Elective Course 3	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	HS3000	Professional Communication	HSC	1	0	2	2
7	NC3001	Intellectual Property Rights	NC	1	0	0	0
							21
Semester 7							
S.No		Course Name	Category	L	T	P	C
1		Free Elective Course 3	ELC	3	1	0	4
2		Free Elective Course 4	ELC	3	1	0	4
3		Free Elective Course 5	ELC	3	1	0	4
4	ME4001	BT-SM-Summer Internship (May-Jul)	PCD	0	0	16	0
							12
Semester 8							
S.No	Course Code	Course Name	Category	L	T	P	C
1		Free Elective Course 6	ELC	3	1	0	4
2	ME4003	BT-SM-Project	PCD	0	0	16	8
							12

§ 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 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		
Basic Science Course (BSC)	8.5	4	0	0	0	0	0	0	12.5	7.5
Science Elective Course (SEC)	0	4	4	4	0	0	0	0	12	7.2
Basic Engineering Course (BEC)	11.5	4	0	0	0	0	0	0	15.5	9.3
Design Course (DSC)	3	3	3	3	3	3	0	0	18	10.8
IT Skill Course (ITC)	0	6	0	0	4	0	0	0	10	6
Professional Core Course (PCC)	0	4	18	18	10	0	0	0	50	30.1
Professional Elective Course (PEC)	0	0	0	0	4	8	0	0	12	7.2
Elective Course (ELC)	0	0	0	0	0	8	12	4	24	14.5
Humanities and Social Science Course (HSC)	2	0	0	0	0	2	0	0	4	2.4
Professional Career Development (PCD)	0	0	0	0	0	0	0	8	8	4.8
Total	25	25	25	25	21	21	12	12	166	100
	25	50	75	99	121	142	154	166		