

# Curriculum for B.Tech

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Mechanical Engineering

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	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	ME3000	Design of Machine Elements	PCC	3	1	0	4
4	ME3001	Measurement and Automation	PCC	3	1	0	4
5	ME3002	Thermal Engineering Practice	PCC	0	0	3	1.5
6	ME3003	Production Drawing and Inspection Practice	PCC	0	0	3	1.5
7		Professional Elective Course 1	PEC	3	1	0	4
8	NC3000	Professional Ethics and Organizational Behaviour	NC	1	0	0	0
							22
Semester 6							
S.No	Courses Codes	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	Courses Codes	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	ME4000	BT-ME-Summer Internship (May-Jul)	PCD	0	0	16	0
							12
Semester 8							
S.No	Courses Codes	Course Name	Category	L	T	P	C
1		Free Elective Course 6	ELC	3	1	0	4
2	ME4002	BT-ME-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	0	12.5	7.5
Science Elective Course (SEC)	0	4	4	4	0	0	0	0	0	12	7.2
Basic Engineering Course (BEC)	11.5	4	0	0	0	0	0	0	0	15.5	9.3
Design Course (DSC)	3	3	3	3	3	3	3	0	0	18	10.8
IT Skill Course (ITC)	0	6	0	0	4	0	0	0	0	10	6
Professional Core Course (PCC)	0	4	18	17	11	0	0	0	0	50	30.1
Professional Elective Course (PEC)	0	0	0	0	4	8	0	0	0	12	7.2
Free Elective Course (ELC)	0	0	0	0	0	8	12	4	24	24	14.5
Humanities and Social Science Course (HSC)	2	0	0	0	0	2	0	0	0	4	2.4
Professional Career Development (PCD)	0	0	0	0	0	0	0	8	8	8	4.8
Total	25	25	25	24	22	21	12	12	166	166	100
	25	50	75	99	121	142	154	166			