

DEPARTMENT OF DESIGN
INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

Program Code: **XXX M.Des. (Industrial Design)**
 Department: **Department of Design**
 Year: **I**
 Model: **2**

Teaching Scheme					Contact Hours/Week			Exam Duration	
S.No.	Subject Code	Course Title	Subject Area	Credits	L	T	P	Theory	Practical
Semester-I (Autumn)									
1.	DEC-501	Introduction to Design and Prototyping**	PCC	Audit	-	-	-	-	-
2.	DEC-503	Design Methodology	PCC	3	2	0	2	2	0
3.	DEC-505	Design Thinking	PCC	3	1	0	4	2	0
4.	DEC-507	Elements and Principles of Visual Design	PCC	3	2	0	2	2	0
5.	DEC-509	Human Factor Design	PCC	3	1	2	0	2	0
6.	DEC-511	Materials and Manufacturing	PCC	2	1	0	2	2	0
7.	DEC-513	User Experience Design	PCC	2	1	0	2	2	0
8.		Social Sciences Course	SSC	2	-	-	-	-	-
		Total		18					
** This is a foundation course (L=15; T=5; P=10) will be conducted during the first two weekends after the commencement of classes to give orientation of Design course.									
Semester-II (Spring)									
1.		Program Elective I	PEC	4	-	-	-	-	-
2.		Program Elective II	PEC	4	-	-	-	-	-
3.		Program Elective III	PEC	3/4	-	-	-	-	-
4.		Program Elective IV	PEC	3/4	-	-	-	-	-
5.	DEC-700	Design Seminar	SEM	2	-	-	4	-	-
6.		Science, Technology, and Advanced Research-Tools	STAR	3	-	-	-	-	-
		Total		19-21					

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Program Code: **XXX M.Des. (Industrial Design)**
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Year: **II**
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Teaching Scheme					Contact Hours/Week			Exam Duration	
S.No.	Subject Code	Course Title	Subject Area	Credits	L	T	P	Theory	Practical
Semester-I (Autumn)									
1	DEC-691	Internship Social Activity	ISA	5	-	-	-	-	-
2	DEC-701A	Thesis Stage-I	Thesis	10	-	-	-	-	-
		Total		15					
\$\$ Evaluation scheme: (Industry: 40 + Institute: 60) Internship will be completed during summer break.									
Semester-II (Spring)									
1	DEC-701B	Thesis Stage-II	Thesis	14	-	-	-	-	-
		Total		14					

Summary				
Semester	1	2	3	4
Semester-wise Total Credits	18	19-21	15	14
Total Credits	66-68			

M.Des. (Industrial Design)

Program Elective Courses

Teaching Scheme					Contact Hours/Week			Exam Duration	
S.No.	Subject Code	Course Title	Subject Area	Credits	L	T	P	Theory	Practical
1	DEL-501	Form Design	PEC	4	2	1	2	3	0
2	DEL-502	Sensors, Actuators and IOT	PEC	4	2	1	2	3	0
3	DEL-503	Computer Aided Design	PEC	4	2	1	2	3	0
4	DEL-504	Rapid Prototyping	PEC	4	3	0	2	3	0
5	DEL-505	Artificial Intelligence and Data Science	PEC	4	3	1	0	3	0
6	DEL-506	Interaction Design	PEC	4	2	1	2	3	0
7	DEL-507	Research Methods in Design	PEC	4	3	1	0	3	0
8	DEL-508	Inter-Disciplinary Design	PEC	4	3	0	2/2	3	0
9	DEL-509	Design for Sustainability	PEC	3	2	1	0	2	0
10	DEL-510	CAE in Product Design	PEC	3	3	0	0	3	0
11	DEL-511	Reverse Engineering	PEC	3	2	0	2	2	0
12	DEL-512	Product Planning and Marketing	PEC	3	3	0	0	3	0
13	DEL-513	Business and Service Innovation	PEC	3	3	0	0	3	0
14	DEL-514	Business Valuation	PEC	3	2	1	0	2	0
15	DEL-515	Intellectual Property Management	PEC	3	2	1	0	2	0
16	DEL-516	Legal Standards/IPR	PEC	3	3	0	0	3	0
17	DEL-517	Systems Thinking	PEC	3	3	0	0	3	0
18	DEL-518	Mobility Design	PEC	3	3	0	0	3	0
19	DEL-519	Service Design	PEC	3	2	1	0	2	0



Teaching Scheme					Contact Hours/Week			Exam Duration	
S.No.	Subject Code	Course Title	Subject Area	Credits	L	T	P	Theory	Practical
20	DEL-520	Research into Design	PEC	3	2	1	0	2	0
21	DEL-521	Bio Inspired Design	PEC	3	3	0	0	3	0
22	DEL-522	Computer Game Design	PEC	3	3	0	0	3	0
23	DEL-523	Design for Society	PEC	3	3	0	0	3	0
24	DEL-524	Graphic Design	PEC	3	2	0	2	2	0
25	DEL-525	Product Detailing	PEC	3	2	0	2	2	0
26	DEL-526	Contemporary Visual Design	PEC	3	3	0	0	3	0
27	DEL-527	Representation Techniques for Animation	PEC	3	3	0	0	3	0
28	DEL-528	Visual Narrative	PEC	3	3	0	0	3	0
29	DEL-529	Product Design	PEC	3	3	0	0	3	0
30	DEL-530	Manufacturing Guidelines for Product Design	PEC	3	3	0	0	3	0
31	DEL-531	Design for Social Inclusion	PEC	3	2	0	2/2	2	0
32	DEL-532	Introduction to Emotional Design	PEC	3	2	1	0	2	0
33	DEL-533	Technology Management	PEC	2	2	0	0	2	0
34	DEL-534	Product Innovation Management	PEC	2	2	0	0	2	0

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M.Des. (Industrial Design)

Science, Technology, and Advanced Research-tools basket

Teaching Scheme					Contact Hours/Week			Exam Duration	
S.No.	Subject Code	Course Title	Subject Area	Credits	L	T	P	Theory	Practical
1	DET-501	User Experience and Interface Design	STAR	3	2	0	2	2	0