

# Course Distribution of MIE, CUET

Department of Mechatronics and Industrial Engineering

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## Course Distribution among major fields

### Course Distribution Summary

Topics	No of Courses	Credits
sessional	28	32.25
Basic Science	7	21
Basic Engineering	2	7
Mechanical	3	10
CSE	4	12
EEE	5	15
Mechatronics	9	29
IPE	10	34
Total	68	160.25

### Topic - 1: Basic Science (7 Courses, 21 Credits)

Adv Sr	Course ID	Course Name	Credits	level	term
1	<b>Hum191</b>	Technical English	3.00	1	1
2	<b>Phy191</b>	Physics	3.00	<b>1</b>	<b>2</b>
3	<b>Chem191</b>	Chemistry	3.00	1	1
4	<b>Math191</b>	Calculus and Solid Geometry	3.00	1	1
5	<b>Math193</b>	Vector, Matrix and Ordinary Differential Equation	3.00	<b>1</b>	<b>2</b>
6	<b>Math291</b>	Integral Transform and Partial Differential Equation	3.00	2	1
7	<b>Math391</b>	Complex Variables and Numerical Methods	3.00	3	1
<b>Total</b>		<b>7</b>	<b>21.00</b>		

NB: Adv Sr=Advancement Serial

### Topic – 2: Basic Engineering (2 Courses, 7 Credits)

Course ID	Course Name	Credits	level	term
<b>MIE321</b>	Engineering Materials	3.00	3	1
<b>MIE131</b>	Statics and Mechanics of Materials	4.00	1	1
<b>Total</b>		<b>2</b>	<b>7.00</b>	

### Topic - 3: Mechanical (3 Courses, 10 Credits)

Course ID	Course Name	Credits	level	term
MIE231	Engineering Dynamics	3.00	2	1
ME291	Thermo-fluid Engineering	4.00	2	2
MIE331	Mechanics of Machinery	3.00	3	2
Total		3	10.00	

### Topic - 4: CSE (4 Courses, 12 Credits)

Course ID	Course Name	Credits	level	term
CSE191	Computer Programming	3.00	1	2
CSE291	Digital Logic Design and Microprocessor	3.00	2	2
MIE311	Micro- controller and Interfacing for Mechatronic Systems	3.00	3	1
MIE465	Machine Learning Algorithm	3.00	4	2
Total		4	12.00	

### Topic - 5: EEE (5 Courses, 15 Credits)

Adv Sr	Course ID	Course Name	Credits	level	term
1	EEE191	Electrical Circuits	3.00	1	1
2	MIE111	Electronics	3.00	1	2
3	EEE291	Electrical Machines	3.00	2	1
4	EEE295	Signals and System Analysis	3.00	2	2
5	EEE391	Power Electronics and Drives	3.00	3	2
Total		5	15.00		

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## Topic - 7: Mechatronics ( 9 Courses, 29 Credits )

Adv Sr	Course ID	Course Name	Credits	level	term
1	MIE211	Sensors and Instrumentation	3.00	2	1
2	MIE271	Measurement and Statistical Analysis	3.00	2	2
3	MIE351	System Dynamics and Control	3.00	3	1
4	MIE411	Digital Control System	3.00	4	1
5	MIE451	Robotics	3.00	4	2
6	MIE313	Industrial Automation	4.00	3	2
7	MIE421	CAD/CAM	3.00	4	1
8	MIE423	Computer Integrated Manufacturing	3.00	4	2
9	MIE413	Mechatronics and Industrial System Design	4.00	4	1
<b>Total</b>		<b>9</b>	<b>29.00</b>		

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## Topic - 6: IPE (10 courses, 34 Credits)

Adv Sr	Course ID	Course Name	Credits	level	term
1	MIE475	Engineering Ethics, Safety and Environment	3.00	4	2
2	MIE121	Production Process	4.00	1	2
3	MIE375	Material Handling and Maintenance Management	3.00	3	2
4	Hum291	Sociology and Engineering Economics	4.00	2	1
5	Hum293	Accounting and Industrial Law	3.00	2	2
6	MIE471	Financial Management for Engineers	3.00	4	1
7	MIE371	Operation Management	4.00	3	1
8	MIE373	Operation Research	3.00	3	2
9	MIE473	System Reliability and Quality Control	3.00	4	1
10	MIE477	Industrial and Business Management	4.00	4	2
<b>Total</b>		<b>10</b>	<b>34.00</b>		

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