

Mandatory Induction Program (Duration: 1 week)

- Physical activity
- Creative Arts
- Universal Human Values
- Literary
- Proficiency Modules
- Lectures by Eminent People
- Visits to local Areas
- Familiarization to Dept./Branch & Innovations

Different components of Mandatory Induction Program will be implemented as per the guidelines of Regulatory Bodies.

Semester I

Cours	Course Code	Course Name	Course	Hours per week			Credits	Total
		Туре	L	Т	Ρ		Marks	
HS	5101	Communication Skills in English	HS	2	0	0	2	50
BS	5101	Applied Chemistry	BS	3	0	0	3	100
BS	5102	Mathematics-I	BS	3	0	0	3	100
ES	5101	Introduction to IT Systems	ES	3	0	0	3	100
ES	5102	Engineering Mechanics	ES	3	0	0	3	100
			Practical					
HS	S191	Communication Skills in English Lab	HS	0	0	2	1	50
BS	BS191 Applied Chemistry lab		BS	0	0	3	1.5	100
ES	5191	Introduction to IT Systems	ES	0	0	2	1	50
ES	5192	Engineering Mechanics Lab	ES	0	0	2	1	50
ES193		Engineering Workshop Practice	ES	0	0	3	1.5	100
		Total					20	800
MC	AU-1	Yoga and Sport		0	0	1	0	0

Total Hours=27



Semester II

Course	e Code	Course Name	Course Type	Hours per week			Credits	Total
				L	Т	Р		Marks
BS	201	Applied Physics	BS	3	0	0	3	100
BS	202	Mathematics-II	BS	3	1	0	4	100
ESZ	201	Fundamentals of Electrical & Electronics Engineering	ES	3	0	0	3	100
ES	202	Computer Programming	ES	3	0	0	3	100
		Practical						
BS	291	Applied Physics Lab	BS	0	0	3	1.5	100
ES	291	Fundamentals of Electrical & Electronics Engineering Lab	ES	0	0	2	1	50
ES	292	Computer Programming Lab	ES	0	0	2	1	50
ES	293	Engineering Graphics	ES	0	0	3	1.5	100
		Total	-				18	700
MC	AU-2	Environmental Scie	nce	2	0	0	0	0

Total Hours=25

Semester III

Course Code	Course Name	Course Type	Но	ours pe week	r	Credits	Total Marks
			L	Т	Ρ		
DMEPC301	Basic Mechanical Engineering	PC	3	0	0	3	100
DMEPC302	Strength of Materials	PC	3	0	0	3	100
DMEPC303	Materials Science & Engineering	PC	3	0	0	3	100
DMEPC304	Thermal Engineering-1	PC	3	0	0	3	100
DMEPC305	Manufacturing Engineering	PC	3	0	0	3	100
	Pract	tical	1	1 1			
DMEPC391	Material Testing Lab	PC	0	0	3	1.5	100
DMEPC392	Manufacturing Engineering Lab-I	PC	0	0	3	1.5	100
DMEPC393	Thermal Engineering Lab-I	PC	0	0	2	1	50
	Total				1	19	750



Semester IV

Course Code	Course Name	Course Type	H	ours per week		Credits	Total Marks
			L	Т	Р		
DMEPC401	Theory of Machines & Mechanisms	PC	3	0	0	3	100
DMEPC402	Fluid Mechanics & Machinery	PC	3	0	0	3	100
DMEPC403	Thermal Engineering - II	PC	3	0	0	3	100
DMEPE401	Elective-I	PE	3	0	0	3	100
	A. Refrigeration & Air- conditioning						
	B. Industrial Robotics & Automation						
DMEOE402	Open Elective-I	OE	3	0	0	3	100
	A. Operations Research						
	B. Engineering Economics & Accountancy						
		Practical					
DMEPC491	Theory of Machines & Mechanisms Lab	PC	0	0	3	1.5	100
DMEPC492	Applied Fluid Mechanics & Machinery Lab	PC	0	0	3	1.5	100
DMEPC493	Thermal Engineering lab-II	PC	0	0	3	1.5	100
DMEPROJ481	Internship -I/ Industrial training-I	PR	0	0	0	2	100
	Total			1	1	21.5	900
MC AU-3	Essence of Indian Knowledge and Tradition		1	0	0	0	0
I	L	L		1		Tata	Hours=25

Total Hours=25



Semester V

Cours	se Code	Course Name	Course Type	Н	ours	per	Credits	Total Marks
			week					
				L	Т	Р		
DMEPC	2501	Advanced Manufacturing Process	РС	3	0	0	3	100
DMEPC	2502	Measurements & Metrology	РС	3	0	0	3	100
DMEPC	2503	Industrial Engineering & Manageme	ent PC	3	0	0	3	100
DMEPE	501	Elective-II	PE	3	0	0	3	100
		A. Heat Transfer						
		B. Power Plant Engineering						
			Р	ractica			I	
DMEPC	2591	Manufacturing Engineering Lab-II	РС	0	0	3	1.5	100
DMEPC	2592	Measurements & Metrology Lab	РС	0	0	2	1	50
DMEPROJ581		Industrial Project I	PR	0	0	0	2	100
DMEPROJ582		Internship-II/ Industrial training-II	PR	0	0	0	2	100
		Total		1	1	1	18.5	750
MC	AU-4	Technical Grooming		1	0	0	0	0
								al hours=18

Total hours=18



Semester VI

Course Code	Course Name	Course Type	F	lours po week	er	Credits	Total Marks
			L	Т	Р		
DMEPC601	Design of Machine Elements	PC	3	0	0	3	100
DMEPC602	Power Engineering	PC	3	0	0	3	100
DMEPE601	Elective-III A. Material Handling Systems B. Computer Integrated Manufacturing	PE	3	0	0	3	100
DMEPE602	Elective-IV A. Mechatronics B. Hybrid Vehicles	PE	3	0	0	3	100
DMEOE601	Open Elective II A. Renewable Energy B. Product Design	OE	3	0	0	3	100
	Practical	1				1	1
DMEPROJ681	Industrial Project II	PR	0	0	0	4	100
DMEPROJ682	Grand Viva	PR	0	0	0	2	100
DMEROPJ683	Technical Seminar	PR	0	0	0	2	100
		Total				23	800
AC AU-5	Constitution of India	1	1	0	0	0	0

Total hours=16

Total Credit -120 Total marks -4700