

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	se Code	Course Name	Course	Hours per week			Credits	Total
			Туре	L	Т	Р		Marks
HS101		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
ES101		Introduction to IT Systems	ES	3	0	0	3	100
ES102		Engineering Mechanics	ES	3	0	0	3	100
			Practical	•				
HS191		Communication Skills in English Lab	HS	0	0	2	1	50
BS191		Applied Chemistry lab	BS	0	0	3	1.5	100
ES191		Introduction to IT Systems	ES	0	0	2	1	50
ES192		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

Cours	se Code	Course Name	Course Type		Hours we	•	Credits	Total Marks
İ			,	L	T	Р		
BS	5201	Applied Physics	BS	3	0	0	3	100
BS	BS202 Mathematics-II BS		3	1	0	4	100	
ES201		Fundamentals of Electrical & Electronics Engineering	ES	3	0	0	3	100
ES202		Computer Programming	ES	3	0	0	3	100
BS	5291	Applied Physics Lab	BS	0	0	3	1.5	100
ES291		Fundamentals of Electrical & Electronics Engineering Lab	ES	0	0	2	1	50
ES	292	Computer Programming Lab	ES	0	0	2	1	50
ES293		Engineering Graphics	ES	0	0	3	1.5	100
	Total						18	700
MC	AU-2	Environmental Science			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	Р		
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
	Practi	cal	l				
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				ı	19	750



### Semester IV

Course Code	Course Name	Course Type	Н	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  A. Refrigeration & Air- conditioning  B. Industrial Robotics & Automation	PE	3	0	0	3	100
DMEOE402	Open Elective-I  A. Operations Research  B. Engineering Economics &  Accountancy	OE	3	0	0	3	100
		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	<u> </u>				21.5	900
MC AU-3	Essence of Indian Knowledge and Tradition		1	0	0	0	0

Total Hours=25



### Semester V

Cours	se Code	Course Name		Course Type	Н	ours	per	Credits	Total Marks
					wee	ek			
					L	Т	Р		
DMEPC	C501	Advanced Manufacturing Process		PC	3	0	0	3	100
DMEPC	C502	Measurements & Metrology		PC	3	0	0	3	100
DMEPC	C503	Industrial Engineering & Management		PC	3	0	0	3	100
DMEPE501		Elective-II		PE	3	0	0	3	100
		A. Heat Transfer							
		B. Power Plant Engineering							
		.1		P	ractical				1
DMEPC	C591	Manufacturin	ng Engineering Lab-II	PC	0	0	3	1.5	100
DMEPC	C592	Measurements & Metrology Lab		PC	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	I		18.5	750
MC	AU-4	Technical Gro	ooming		1	0	0	0	0

Total hours=18



### Semester VI

Course Code	Course Name	Course Type	Н	ours po	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	PE	3	0	0	3	100	
	A. Material Handling Systems							
	B. Computer Integrated Manufacturing							
DMEPE602	Elective-IV	PE	3	0	0	3	100	
	A. Mechatronics							
	B. Hybrid Vehicles							
DMEOE601	Open Elective II	OE	3	0	0	3	100	
	A. Renewable Energy							
	B. Product Design							
	Practical							
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	
/IC AU-5	Constitution of India	1	1	0	0	0	0	

Total hours=16

Total Credit -120 Total marks -4700