

CURRICULUM FOR MECHANICAL ENGINEERING AND LEATHER TECHNOLOGY & ENGINEERING

SEMESTER – I

Sl. No.	Paper Code	Paper Title	L	T	P	Credits
1	102101	Physics (Electromagnetism)	3	1	3	5.5
2	102102	Mathematics –I (Calculus & Linear Algebra)	3	1	0	4
3	100101	Basic Electrical Engineering	3	1	2	5
4	100102	Engineering Graphics & Design	1	0	4	3

SEMESTER – II

Sl. No.	Paper Code	Paper Title	L	T	P	Credits
1	100203	Chemistry	3	1	3	5.5
2	102202	Mathematics –II (ODE & Complex Variables)	3	1	0	4
3	100204	Programming for Problem Solving	3	0	4	5
4	100205	Workshop Manufacturing Practices	1	0	4	3
5	100206	English	2	0	2	3

DEFINITION OF CREDIT

Hour	Component	Credit
1	Lecture (L) per week	1
1	Tutorial (T) per week	1
1	Practical (P) per week	0.5

102 Mechanical

Semester III [Second year]
Branch/Course: Mechanical Engineering

Sl. No.	Category	Code	Course Title	Hours per week			Total contact hours	Credits
				L	T	P		
1	Basic Science Courses	BSC 202	Mathematics III (PDE, Probability & Statistics)	3	1	0	4	4
2	Basic Science Courses	BSC 203	Biology	2	1	0	3	3
3	Engineering Science courses	ESC 201	Basic Electronics Engineering	3	1	0	4	4
4	Engineering Science courses	ESC 202	Engineering Mechanics	3	0	2	4	4
5	Professional Core courses	PCC- ME 201	Thermodynamics	3	1	0	4	4
6	Professional Core courses	PCC-ME 202	Machine Drawing	0	0	4	4	2
7	Summer Internship	INST-ME 203	Inter/Intra Institutional Activities (Summer Vacation after 2 nd Sem.) Internship	Four Week				4
8	Employability Enhancement	--	Professional Courses (Spoken Tutorial, KYP, etc.)	12				0
Total credits:								25

103 EE

Semester III [Second year]
Branch/Course: Electrical Engineering

Sl. No	Course Code	Course Title	Hours per week			Total contact hours	Credits
			Lecture	Tutorial	Practical		
1	PCC-EE01	Electrical Circuit Analysis	3	1	0	4	4
2	PCC-EE02	Electrical Circuit Analysis Laboratory	0	0	2	2	1

IV SEMESTER
Branch/Course Civil Engineering (101)

sr. no.	CODE	Course Title	L	T	P		Credit
1		Mechanical Engineering	2	1	0		3
2		Engineering Geology	2	0	2		3
3		Disaster Preparedness & Planning	1	1	0		2
4		Introduction to Fluid Mechanics	3	0	2		4
5		Introduction to Solid Mechanics	3	0	0		3
6		Structural Analysis	3	1	0		4
7		Materials, Testing & Evaluation	1	1	2		3
8		Civil Engineering - Societal & Global Impact	2	0	0		2
9		Open Elective-I (Humanities) MOOC	2	0	0		2
10		Management I (Organizational Behaviour)	3	0	0		0
			TOTAL				26

IV SEMESTER
Branch/Course: Mechanical Engineering (102)

sr. no.	CODE	Course Title	L	T	P	H	Credit
1		Fluid Mechanics	3	0	3	6	4.5
2		Applied Thermodynamics	3	1	0	4	4
3		Strength of Materials	3	0	3	6	4.5
4		Engineering Materials	3	0	0	4	4
5		Instrumentation & Control	3	0	0	4	4
6		Environmental Science	2	-	-	2	0
7		From Mechanical Engineering	8 weeks				2
8		Professional Courses (Spoken Tutorial, KYP, etc.)	9				0
			TOTAL				23

103 – ELECTRICAL ENGINEERING
Semester IV [Second year] Branch/Course: Electrical Engineering

sr. no.	CODE	Course Title	L	T	P	H	Credit
1		Digital Electronics	3	0	0	3	3
2		Digital Electronics Laboratory	0	0	2	2	1
3		Electrical Machines – II	4	0	0	4	4
4		Electrical Machines Laboratory - II	0	0	2	2	1
5		Electrical and Electronics Measurement	3	0	0	3	3
6		Electrical and Electronics Measurement laboratory	0	0	2	2	1
7		Signals and Systems	2	1	0	3	3

Semester V (Third year]**Branch/Course Civil Engineering**

V SEMESTER						
Branch/Course Civil Engineering - 101						
sr. no.	COD E	Course Title	L	T	P	Credit
1		Mechanics of Materials	3	0	0	3
2		Hydraulic Engineering	2	0	2	3
3		Analysis and Design of Concrete Structure	2	1	0	3
4		Geotechnical Engineering -I	3	0	2	4
5		Hydrology & Water Resources Engineering	2	0	2	3
6		Environmental Engineering -I	3	0	2	4
7		Transportation Engineering	3	0	2	4
8		Constitution of India/ Essence of Indian Traditional Knowledge	2	-	-	0
9		Innovation/IPR/Entrepreneurship/Internship at end of 2 nd semester for 6 week				6
			TOTAL CREDIT			30

Semester V (Third year]**Branch/Course Mechanical Engineering**

Semester V						
Branch/Course: Mechanical Engineering (102)						
sr. no.	CODE	Course Title	L	T	P	Credit
1		Heat Transfer	3	0	3	4.5
2		Fluid Machinery	3	0	3	4.5
3		Manufacturing Processes	3	0	3	4.5
4		Kinematics of Machine	3	1	0	4
5		Essence of Indian Knowledge Tradition	2	0	0	0
6		Open Elective- I	12 WEEK			3
7		Innovation/Entrepreneurship (Summer Vacation after 4th sem.)	6 WEEK			6
8		Competitive Courses (GATE, IES, etc.)	8			0
			TOTAL			26.5