

COURSE CATEGORIES-MECHANICAL ENGINEERING

S. No.	Category	Description
1	CB – Chemistry and Biology	Courses in Chemistry and Biology.
2	CE – Civil Engineering	Courses related to Civil Engineering
3	CS – Computer Science	Courses in Computer Science and Technology
4	EE – Electrical Engineering	Courses of Electrical Engineering
6	ME – Mechanical Engineering	Courses in Mechanical Engineering
7	HS – Humanities and Social Sciences	Courses in Language, Culture, Philosophy, etc.
8	SE – Society & Enterprise	Includes projects and courses in Media, Industrial Engineering, Management, Finance, etc.

CURRICULUM-MECHANICAL ENGINEERING

Semester 1						
	Code	Course	L	T	P	Credits
1	ME-111	Engineering Mathematics - I	3	1	0	3
2	ME-112	Chemistry for Mechanical Engineering	3	1	0	3
3	ME-113	Communications Skills	3	1	0	3
4	ME-114	Engineering Mechanics and Strength of Materials	3	1	0	3
5	ME-115	Engineering Graphics	1	0	3	3
6	ME-116	Chemistry Lab	0	0	3	1
7	ME-117	Communications Lab	0	0	3	1
8	ME-118	Workshop Practice - I	1	0	3	2
9	ME-119	Media Project	1	0	3	2
10	HS 102	French Language & Culture I	0	2	0	0
		Hours =	34			21



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Semester 2						
	Code	Course	L	T	P	Credits
1	ME-121	Engineering Mathematics - II	3	1	0	3
2	ME-122	Physics for Mechanical Engineers	3	1	0	3
3	ME-123	Basic Environmental Science and Engineering	3	1	0	3
4	ME-124	Basic Electrical & Electronics Engineering	3	1	0	3
5	ME-125	Engineering Thermodynamics	3	1	0	3
6	ME-126	Physics Lab	0	0	3	1
7	ME-127	Basic Electrical & Electronics Lab	0	0	3	1
8	ME-128	Workshop Practice - II	1	0	3	2
9	HS 104	French Language & Culture II	0	2	0	0
		Hours =	30			19



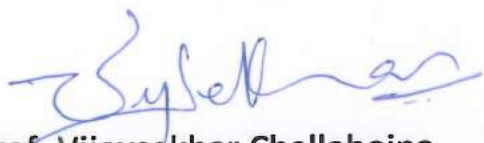
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Semester 3						
	Code	Course	L	T	P	Credits
1	ME-211	Engineering Mathematics - III	3	1	0	3
2	ME-212	Electrical Machines & Drives	3	1	0	3
3	ME-213	Manufacturing Processes - I	3	1	0	3
4	ME-214	Mechanics of Materials	3	1	0	3
5	ME-215	Fluid Mechanics	3	1	0	3
6	ME-216	Electrical Machines Lab	0	0	3	1
7	ME-217	Manufacturing Processes - I Lab	0	0	3	2
8	ME-218	Mechanics of Materials Lab	0	0	3	1
9	ME-219	Fluid Mechanics Lab	0	0	3	1
10	ME-210	Design Thinking	1	0	3	2
11	HS 206	French Language & Culture III	0	2	0	0
Hours = 36						22



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Semester 4						
	Code	Course	L	T	P	Credits
1	ME-221	Computer Programming and Numerical Methods for Engineers	3	1	0	3
2	ME-222	Kinematics of Machines	3	1	0	3
3	ME-223	Manufacturing Processes - II	3	1	0	3
4	ME-224	Internal Combustion Engines	3	1	0	3
5	ME-225	Engineering Metallurgy	3	1	0	3
6	ME-226	Machine Drawing	1	0	6	4
7	ME-227	Computer Programming and Numerical Methods Lab	0	0	3	1
8	ME-228	Theory of Vibrations	3	1	0	3
10	HS 208	French Language & Culture IV	0	2	0	0
Hours = 36						23



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Semester 5						
	Code	Course	L	T	P	Credits
1	MA 305	Mathematics V	3	2	0	4
2	CE 301	Earth and Environmental Sciences	2	0	0	2
3	ME 305	Multiphysics	3	2	0	4
4	ME 307	Computer Aided Engineering Design	2	2	0	3
5	ME 309	Dynamics & Applications	3	2	0	4
6	E1	Elective	3	0	0	3
7	SE 306	Year-3 Project Phase I	0	2	2	2
8	HS 310	French Language & Culture V	0	2	0	0
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Semester 6						
	Code	Course	L	T	P	Credits
1	MA 306	Mathematics VI	2	0	0	2
2	ME 308	Experimental Analysis	1	0	4	3
3	ME 310	Fluid Mechanics	3	2	0	4
4	ME 312	Advanced Mechanics of Solids	3	2	0	4
5	ME 311	Applied Thermodynamics	3	0	0	3
6	SE 308	Year-3 Project Phase II	0	3	3	3
7	SE 309	Corporate Management and Finance	3	0	0	3
8	HS 312	French Language & Culture VI	0	2	0	0
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Semester 7						
	Code	Course	L	T	P	Credits
1	ME 411	Finite Element Method in Engineering	3	0	2	4
2	ME 413	Control Theory	3	0	0	3
3	ME 415	Industrial Engineering	3	0	0	3
4	ME 417	Design of Machine Elements	4	0	0	4
5	E3	Elective	X	X	X	3
6	ME 421	Year-4 Project Phase I	0	2	2	2
7	HS 420	Communication Skills and Personality Development	1	2	0	2
8	HS 414	French Language & Culture VII	0	2	0	0
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Semester 8						
	Code	Course	L	T	P	Credits
1	E3	Open Elective	X	X	X	3
2	E4	Professional Elective	X	X	X	3
3	E5	Open Elective	X	X	X	3
4	ME 422	Year-4 Project Phase II	0	9	9	9
5	SE 410	Entrepreneurship, IPR, Legal	3	0	0	3
6	HS 416	French Language & Culture VIII	0	2	0	0
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ELECTIVES LIST (for semesters 5, 6, 7 and 8)

S.No.	Code	Course	L	T	P	Credits
1	ME 351	Advanced Manufacturing	3	0	0	3
2	ME 450	Refrigeration & Air Conditioning	3	0	0	3
3	ME 452	Introduction to Operations Research	3	0	0	3
4	ME 353	Structural Dynamics and Acoustics	3	0	0	3
5	ME 454	The Theory of mechanisms and Machines	3	0	0	3
6	ME 455	Turbomachinery	3	0	0	3
7	ME 456	Systems Engineering	3	0	0	3
8	ME 457	Mechanics of Materials	3	0	0	3
9	ME 458	Introduction to IC Engines	3	0	0	3
10	ME 459	Power Plant Engineering	3	0	0	3
11	ME 460	Alternative Energy Sources	3	0	0	3
12	ME 462	Composite Materials	3	0	0	3
13	ME 463	Engineering Alloys in Design	3	0	0	3
14	ME 465	Flight Dynamics	3	0	0	3
15	ME 466	Aircraft Design	3	0	0	3
16	ME 467	Introduction to Robotics	3	0	0	3
17	ME 468	Introduction to Combustion	3	0	0	3
18	ME469	Computational Fluid Dynamics	3	0	0	3
19	CS 304	Object Oriented Programme Development and Languages	2	0	2	3
20	CS 452	Data mining	2	2	0	3
21	CS 457	Machine Learning	3	0	0	3
22	EE 454	Image Processing and Computer Vision	3	0	0	3
23	EE 465	Measurements and Instrumentation	3	0	0	3
24	CS 460	Introduction to database management systems	3	0	0	3
25	CE 470	Application of Soil Mechanics	3	0	0	3
26	EE 304	Electromechanical Energy Conversion	3	0	0	3
27	PH 304	Physics IV	3	0	0	3
28	PH 451	Lasers: Principles and Applications	3	0	0	3
29	HS 411	Introduction to Social Sciences	3	0	0	3
30	CB 304	Chemical & Bio Engineering	3	0	0	3

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