



Second Year - Third Semester

A.THEORY							
Sl No.	Subject Code	Theory	Contact Hours/Week				Credit Points
			L	T	P	Total	
1	HU-301	Values & Ethics in Profession	3	0	0	3	3
2	M (CS) 301	Numerical Methods	2	1	0	3	2
3	CH301	Basic Environmental Engineering &Elementary Biology	3	0	0	3	3
4	ME 301	Applied Thermodynamics	4	0	0	4	4
5	ME 302	Strength of Materials	3	1	0	4	4
6	ME 303	Engineering Materials	3	1	0	4	3
7.	GS301	Essential studies for professional 3	2	1	0	3	2
Total of Theory						24	21
B. PRACTICAL							
8	HU-381	Technical Report Writing & Language Lab Practice	0	0	3	3	2
9	M (CS) 391	Numerical Methods	0	0	2	2	1
10	ME 391	Machine Drawing –I	0	0	3	3	2
11	ME 392	Workshop Practice-II	0	0	3	3	2
12	ME 393	Applied Mechanics Lab	0	0	3	3	2
13	GS -381	Skill development for professionals	3	0	0	3	1
Total of Practical						17	10
Total of Semester						41	31



Second Year Fourth Semester

A.THEORY							
Sl No.	Subject Code	Theory	Contact Hours/Week				Credit Points
			L	T	P	Total	
1	M 401	Mathematics-3	3	1	0	4	4
2	ME 401	Fluid Mechanics & Hydraulic Machines	3	1	0	4	4
3	ME 402	Mechanisms	3	0	0	3	3
4	ME 403	Primary Manufacturing Processes	3	1	0	4	4
5	ME 404	Heat Transfer	3	1	0	4	4
6.	GS-401	Essential studies for professional 4	2	1	0	3	2
Total of Theory						22	21
B. PRACTICAL							
7	ME491	Fluid Mechanics & Hydraulics Lab	0	0	3	3	2
8	ME 492	Manufacturing Technology Lab	0	0	3	3	2
9	ME493	Material Testing Lab	0	0	3	3	2
10	ME 494	Machine Drawing-II	0	0	3	3	2
11	ME 495	Applied Thermodynamics & Heat Transfer Lab	0	0	3	3	2
12	GS -481	skill development for professionals	3	0	0	3	1
Total of Practical						18	11
Total of Semester						40	32



Third Year – Fifth Semester

A.THEORY							
Sl No.	Subject Code	Theory	Contact Hours/Week				Credit Points
			L	T	P	Total	
1	HU511	Principles & Practices of Management	2	0	0	2	2
2	ME 501	Dynamics of Machines	3	1	0	4	4
3	ME 502	Design of Machine Elements	3	1	0	4	4
4	ME 503	Metrology & Measurement	3	1	0	4	4
5	ME 504	Professional Elective-I A-Electrical Machines B-Applied Fluid Mechanics	3	0	0	3	3
6	ME 505	Free Elective – I A. Data Base Management Systems B. Operating System C. Microprocessor & Microcontroller	3	0	0	3	3
7.	GS -501	Essential studies for professional5	2	1	0	3	2
Total of Theory						23	22
B. PRACTICAL							
8	ME 581 (Sessional)	Seminar-I	0	0	3	3	2
9	ME 592	Design Practice-I	0	0	3	3	2
10	ME593	Metrology & Measurement Lab	0	0	2	2	1
11	ME 594	Professional Elective – I Lab	0	0	3	3	2
12	ME 595	Free Elective – I Lab	0	0	3	3	2
13	GS -581	Skill development for professionals	3	0	0	3	1
Total of Practical						17	10
Total of Semester						40	32



Third Year – Sixth Semester

A.THEORY							
Sl No.	Subject Code	Theory	Contact Hours/Week				Credit Points
			L	T	P	Total	
1	HU 611	Production & Operations Management	2	0	0	2	2
2	ME 601	IC Engines and Gas Turbines	3	0	0	3	3
3	ME 602	Machining Principles & Machine Tools	3	0	0	3	3
4	ME 603	Machine Design	3	0	0	3	3
5	ME 604	Professional Elective-II A. Air Conditioning & Refrigeration B. Mechatronics C. Fluid Power Control	3	0	0	3	3
6	ME 605	Free Elective-II A. Control System B. Software Engineering C. Operations Research	3	0	0	3	3
7.	GS 601	Essential studies for professional 6	2	1	0	3	2
Total of Theory						20	19
B. PRACTICAL							
8	ME 691	Machining & Machine Tools Lab	0	0	3	3	2
9	ME 692	IC Engine Lab	0	0	3	3	2
10	ME 693	Design Practice-II	0	0	3	3	2
11	ME 694	Dynamics of Machines Lab	0	0	3	3	2
12	ME 695	Professional Elective-II Lab	0	0	3	3	2
13	GS -681	Skill development for professionals	3	0	0	3	1
Total of Practical						18	11
Total of Semester						38	30



Fourth Year – Seventh Semester

A.THEORY							
Sl No.	Subject Code	Theory	Contact Hours/Week				Credit Points
			L	T	P	Total	
1	ME 701	Power Plant Engineering	4	0	0	4	4
2	ME 702	Advanced Manufacturing Technology	4	0	0	4	4
3	ME 703	Professional Elective-III A. Materials Handling B. Finite Element Method C. Turbo Machinery	3	0	0	3	3
4	ME 704	Professional Elective-IV A. Maintenance Engineering B. Renewable Energy Systems C. Tribology	3	0	0	3	3
5	ME 705	Professional Elective – V A. Quantity Production Method B. Advanced Welding Technology C. Computational Methods in Engineering	3	0	0	3	3
6	ME 706	Free Elective-III A. Object Oriented Programming B. Artificial Intelligence C. Electronic Measurement & Instrumentation	3	0	0	3	3
7.	GS 701	Essential studies for professional 7	2	1	0	3	2
Total of Theory						23	22
B. PRACTICAL							
8	ME 791	Advanced Manufacturing Lab	0	0	3	3	2
9	ME 781	Project : Part 1	0	0	4	4	2
10	ME 782	Viva Voce on Vocational Training	0	0	0	0	2
11	ME783	Group Discussion	0	0	0	0	2
12	GS -781	Skill development for professionals	3	0	0	3	1
Total of Practical						10	9
Total of Semester						33	30



Fourth Year – Eighth Semester

A.THEORY							
Sl No.	Subject Code	Theory	Contact Hours/Week				Credit Points
			L	T	P	Total	
1	ME 801 (HU)	Economics for Engineers	3	0	0	3	3
2	ME 802	Professional Elective-VI A. CAD/CAM B. Industrial Robotics C. Energy Conservation & Management D. Quality & Reliability Engineering	3	0	0	3	3
3	ME 803	Free Elective-IV A. Safety & Occupational Health B. Automation & Control C. Water Resource Engineering D. Automobile Engineering	3	0	0	3	3
4.	GS 801	Essential studies for professional - 8	2	1	0	3	2
Total of Theory						12	11
B. PRACTICAL							
4	ME 881	Deign of a Mechanical System	0	0	6	6	4
5	ME 882	Project : Part II	0	0	12	12	6
6	ME 883	Comprehensive viva	0	0	0	0	2
Total of Practical						18	12
Total of Semester						30	23

