

B. Tech. in Mechanical Engineering III Semester CBCS Scheme

Sl. No	Course Title	Course Code Course Name	Course Name	Type	L	T	P	T	A	MS	SE	ES	SE	Total	Credits
	Course Title	Course Code	Course Name					Max	Min	Max	Min	Max	Min	Marks	
1.	Program Core	ME103101ME	Material Science	T	3	1	0	20	0	30	0	50	0	100	4
2.	Program Core	ME103102ME	Mechanics of Solids - I	Т	3	1	0	20	0	30	0	50	0	100	4
3.	Program Core	ME103103ME	Applied Thermodynamics	Т	3	1	0	20	0	30	0	50	0	100	4
4.	Program Core	ME103104ME	Manufacturing Science - I	Т	3	1	0	20	0	30	0	50	0	100	4
5.	Program Core	ME103105ME	Machine Drawing	Т	1	3	0	20	0	30	0	50	0	100	4
6.	Program Core	ME103001MA	Mathematics- III	Т	4	0	0	20	0	30	0	50	0	100	4
7.	Laboratory	ME103401ME	Mechanical Lab-1	P	0	0	2	40	0	20	0	40	0	100	1
8.	Laboratory	ME103402ME	Mechanical Lab-2	P	0	0	2	40	0	20	0	40	0	100	1
					17	7	4				•			800	26



B. Tech. in Mechanical Engineering IV Semester CBCS Scheme

Sl. No	Course Title	Course Code	rrse Code Course Name	Type	L	Т	P	T.	A	MS	SE	ES	SE	Total	Credits
	Course Title	Course Code						Max	Min	Max	Min	Max	Min	Marks	
1.	Program Core	ME104101ME	Fluid Mechanics	T	3	1	0	20	0	30	0	50	0	100	4
2.	Program Core	ME104102ME	Mechanics of Solids - II	Т	3	1	0	20	0	30	0	50	0	100	4
3.	Program Core	ME104103ME	Internal Combustion Engines	Т	3	1	0	20	0	30	0	50	0	100	4
4.	Program Core	ME104104ME	Kinematics of Machines	Т	3	1	0	20	0	30	0	50	0	100	4
5.	Program Core	ME104105ME	Manufacturing Science - II	Т	3	1	0	20	0	30	0	50	0	100	4
6.	Program Core	ME104001MA	Mathematics-IV	Т	4	0	0	20	0	30	0	50	0	100	4
7.	Laboratory	ME104407ME	Mechanical Lab-3	P	0	0	2	40	0	20	0	40	0	100	1
8.	Laboratory	ME104408ME	Mechanical Lab-4	P	0	0	2	40	0	20	0	40	0	100	1
	Total						4		•					800	26



B. Tech. in Mechanical Engineering V Semester CBCS Scheme

Sl. No	Course Title	Course Code	Course Name	Туре	L	Т	P	Т	'A	M	ISE	ES	SE	Total	Credits
	Course True	Course coue	Course Name					Max	Min	Max	Min	Max	Min	Marks	
1.	Program Elective-I	ME105201ME	Dynamics and Vibration												
2.	Program Elective-I	ME105202ME	Industrial Engineering & Management	T	3	0	0	20	0	30	0	50	0	100	3
3.	Program Elective-I	ME105203ME	Introduction to Aerospace Engineering												
4.	Program Elective-II	ME105211ME	Design and Optimization of Energy systems	т	3	0	0	20	0	30	0	50	0	100	3
5.	Program Elective-II	ME105212ME	Measurement and Control	1	9	U	U	20	U	30	0	50	U	100	3
6.	Open Elective-I	ME105301ME	Computational Fluid Dynamics												
7.	Open Elective-I	ME105302ME	Composite Materials and Mechanics	T	3	0	0	20	0	30	0	50	0	100	3
8.	Open Elective-I	ME105303ME	Finite Element Method												
9.	Program Core	ME105101ME	Heat and Mass Transfer	Т	3	1	0	20	0	30	0	50	0	100	4
10.	Program Core	ME105102ME	Refrigeration and Air Conditioning	Т	3	1	0	20	0	30	0	50	0	100	4
11.	Program Core	ME105103ME	Machine Design - 1	Т	3	1	0	20	0	30	0	50	0	100	4
12.	Laboratory	ME105401ME	Mechanical Lab - 5	P	0	0	2	40	0	20	0	40	0	100	1
13.	Laboratory	ME105402ME	Mechanical Lab - 6	P	0	0	2	40	0	20	0	40	0	100	1
14.	Internship	ME105701ME	Summer Internship 1	P	0	0	0	50	0	0	0	50	0	100	1
Total				18	3	4		-					900	24	



B. Tech. in Mechanical Engineering VI Semester CBCS Scheme

Sl. No	Course Title	Course Code	Course Name	Туре	L	T	P TA			M	ISE	E:	ESE To		Credits
	dourse ride	dourse douc	Gourse Name					Max	Min	Max	Min	Max	Min	Marks	
1.	Program Elective-III	ME106201ME	Air Conditioning Techniques and System Design												
2.	Program Elective-III	ME106202ME	Fatigue Creep and Fracture	Т	3	0	0	20	0	30	0	50	0	100	3
3.	Program Elective-III	ME106203ME	Operations Research												
4.	Open Elective-II	ME106301ME	Design Thinking and Product Innovation												
5.	Open Elective-II	ME106302ME	Experimental Stress Analysis		2	0	0	20	0	30	0	50	0	100	2
6.	Open Elective-II	ME106303ME	Robotics	T	3	0	U	20	U	30	U	50	U	100	3
7.	Open Elective-II	ME106304ME	Smart Materials and Systems												
8.	Program Core	ME106101ME	Machine Design II-Mechanical Drives	Т	3	1	0	20	0	30	0	50	0	100	4
9.	Program Core	ME106102ME	Dynamics of Machines	Т	3	1	0	20	0	30	0	50	0	100	4
10.	Program Core	ME106103ME	Turbo Machinery	Т	3	1	0	20	0	30	0	50	0	100	4
11.	Laboratory	ME106401ME	Mechanical Lab – 7	P	0	0	2	40	0	20	0	40	0	100	1
12.	Laboratory	ME106402ME	Mechanical Lab - 8	P	0	0	2	40	0	20	0	40	0	100	1
		To	tal		15	3	4							700	20



B. Tech. in Mechanical Engineering VII Semester CBCS Scheme

Sl. No	Course Title	Course Code	Course Name	Туре	L	T	P	Т	'A	M	SE	E:	SE	Total	Credits
	dourse mue	Gourse douc						Max	Min	Max	Min	Max	Min	Marks	
1.	Program Elective-IV	ME107201ME	Fluid Mechanics-II-Fluid Machinery	T	3	0	0	20	0	30	0	50	0	100	2
2.	Program Elective-IV	ME107202ME	Solar Energy Utilization	1	3	0	U	20	0	30	U	50	U	100	3
3.	Program Elective-V	ME107211ME	Energy Conversion System												
4.	Program Elective-V	ME107212ME	Power Plant Engineering	T	3	0	0	20	0	30	0	50	0	100	3
5.	Program Elective-V	ME107213ME	Tribology												
6.	Open Elective-III	ME107301ME	Air Pollution Control												
7.	Open Elective-III	ME107302ME	Integrated Product Development	T	3	0	0	20	0	30	0	50	0	100	3
8.	Open Elective-III	ME107303ME	Optimization Techniques												
9.	Program Core	ME107101ME	Production Management	Т	3	1	0	20	0	30	0	50	0	100	4
10.	Laboratory	ME107401ME	Mechanical Lab – 9	P	0	0	2	40	0	20	0	40	0	100	1
11.	Internship	ME107701ME	Summer Internship II	P	0	0	2	50	0	0	0	50	0	100	2
12.	Laboratory	ME107801ME	Project Work	P	0	0	8	40	0	20	0	40	0	100	4
		To	tal		12	1	12							700	20



B. Tech. in Mechanical Engineering VIII Semester CBCS Scheme

Sl. No	Course Title	Course Code	Course Name	Туре	L	Т	P	Т	'Α	M	ISE	E:	SE	Total	Credits
		004130 0040	CO 44.200 1.14.14.10					Max	Min	Max	Min	Max	Min	Marks	
1.	Program Elective-VI	ME108201ME	Additive Manufacturing												
2.	Program Elective-VI	ME108202ME	Computer Aided Design and Manufacturing	T	3	0	0	20	0	30	0	50	0	100	3
3.	Program Elective-VI	ME108203ME	Heat Exchangers: Fundamental & Design												
4.	Program Elective-VII	ME108211ME	Advance Refrigeration and Air Conditioning												
5.	Program Elective-VII	ME108212ME	Alternative fuels and emission control in internal combustion engines	Т	3	0	0	20	0	30	0	50	0	100	3
6.	Program Elective-VII	ME108213ME	Automobile Engineering												
7.	Open Elective-IV	ME108301ME	Experimental Techniques for the Engineers	Т	3	0	0	20	0	30	0	50	0	100	3
8.	Open Elective-IV	ME108302ME	Welding Technology												
9.	Open Elective-V	ME108311ME	Non-Conventional Energy Resources	т	2	1		20		20	0	50	•	100	3
10.	Open Elective-V	ME108312ME	Nature Inspired Design	1	3	1	0	20	0	30	0	50	0	100	3
11.**	Internship	ME108701ME	Major Internship	P	0	0	2	50	0	0	0	50	0	100	6
	Total				12	1	12							500	12

^{**}The students who opt for Major Internship will have to take '2' open elective courses along with the Major Internship making a total 12 credits for VIIIth Semester.