	B. Tech. Mechanical Engineering - I Semester						
S.	Course	Name of Course	L-T-P	Credits	Course	е Туре	
No.	Code						
		Theory Courses			UGC	AICTE	
1	CY 101/	Engineering Chemistry/	3-1-0	4	FC-C1	BSC	
	PH 102	Engineering Physics					
2	MA 101	Engineering Mathematics –I	3-1-0	4	FC-C2	BSC	
3	EC 101/	Basic Electronics Engineering/	3-1-0	4	FC-C3	ESC	
	EE 102	Basic Electrical Engineering					
4	CS 101/	Fundamentals of Computer	3-1-0	4	SEC 1	ESC	
		Programming/					
	ME101	Engineering Mechanics					
5	BS 101	Human Values & Buddhist	2-0-0	2	AECC 1	HSMC	
		Ethics		_			
6	EN 101	English Proficiency	2-0-0	2	AECC 2	HSMC	
		Practical Courses					
7	CE 103*/	Engineering Graphics/	1-0-2	2	SEC2	ESC	
	ME102**	Workshop Practice					
8	CY 103/	Engineering Chemistry/	0-0-2	1	FC-C4	BSC	
	PH 104	Engineering Physics					
9	CS 181/	Computer Programming Lab/	0-0-2	1	SEC 3	ESC	
	EN 151/	Language Lab					
10	EC 181/	Basic Electronics Engg. Lab/	0-0-2	1	FC-C5	ESC	
	EE 103	Basic Electrical Engg. Lab					
11	GP	General Proficiency		NC			
		Total Credits		25			
		Total Contact Hours	17-4-08	Note - * Cor	nsidered as la	b course	

		B. Tech. Mechanical Engine	ering -II	Semeste	er	
S.	Course	Name of Course	L-T-P	Credits	Course	е Туре
No.	Code					
		Theory Courses			UGC	AICTE
1	PH 102/	Engineering Physics/	3-1-0	4	FC-C6	BSC
	CY 101	Engineering Chemistry				
2	MA 102	Engineering Mathematics –II	3-1-0	4	FC-C7	BSC
3	ME101/	Engineering Mechanics/	3-1-0	4	FC-C8	ESC
	CS 101	Fundamentals of Computer				
		Programming				
4	EE 102/	Basic Electrical Engineering/	3-1-0	4	FC-C9	ESC
	EC 101	Basic Electronics Engineering				
5	ES 101	Environmental Studies	4-0-0	4	AECC 3	BSC
		Practical Courses	•			
6	ME102**/	Workshop Practice/	1-0-2	2	CC-C 1	ESC
	CE103*	Engineering Graphics				
7	PH 104/	Engineering Physics/	0-0-2	1	FC-C10	BSC
	CY 103	Engineering Chemistry				
8	CS 181/	Computer Programming Lab/	0-0-2	1	AECC 4	BSC
	EN 151/	Language Lab				
9	EE 103 /	Basic Electrical Engg. Lab/	0-0-2	1	FC-C11	ESC
	EC 181	Basic Electronics Engg. Lab				
10	GP	General Proficiency		NC		
		Total credits		25		
		Total Contact Hours	17-4-08	Note - ** Co	nsidered as	lab course

	B. Tech. Mechanical Engineering - III Semester							
S. No.	Course Code	Name of Course	L-T-P	Credits	Course	Туре		
		Theory Courses			UGC	AICTE		
1	MA 201	Engineering Mathematics- III	3-1-0	4	FC-C12	BSC		
2	ME 201	Theory of Production Processes -I	4-0-0	4	CC-C2	PCC		
3	ME 203	Strength of Materials- I	3-1-0	4	CC-C4	PCC		
4	ME 205	Engineering Thermodynamics	3-1-0	4	CC-C3	PCC		
5	ME 207	Materials Engineering	4-0-0	4	CC-C5	PCC		
		Practical Courses						
6	ME 209	Production Processes Lab -I	0-0-3	2	CC-C7	PCC		
7	ME 211	Strength of Materials Lab	0-0-2	1	CC-C8	PCC		
8	ME 213	Machine Drawing	1-0-2	2	CC-C6	PCC		
9	GP	General Proficiency		NC				
		Total Credits		25				
		Total Contact Hours	18-3-8					

	В.	Tech. Mechanical Enginee	ering - I	V Semes	ster	
S.	Course	Name of Course	L-T-P	Credits	Course ⁻	Гуре
No.	Code					
		Theory Courses			UGC	AICTE
1	ME 202	Theory of Production Processes –II	4-0-0	4	CC-C12	PCC
2	ME 204	Strength of Materials- II	3-1-0	4	CC-C9	PCC
3	ME 206	Fluid Mechanics	3-1-0	4	CC-C11	PCC
4	ME 208	Kinematics of Machines	3-1-0	4	CC-C10	PCC
5	ME 210	Engineering Measurements & Metrology	3-0-0	3	CC-C13	PCC
6	ME 212	Automobile Engineering	3-0-0	3	CC-C14	PCC
		Practical Labs				
7	ME 214	Production Processes Lab -II	0-0-3	2	CC-C15	PCC
8	ME 216	Fluid Mechanics Lab	0-0-3	2	CC-C16	PCC
9	ME 218	Engineering Measurements & Metrology Lab	0-0-2	1	CC-C17	PCC
10	ME 220	Automobile Engineering Lab	0-0-2	1	CC-C18	PCC
11	GP	General Proficiency		NC		
		Total Credits		27		
		Total Contact Hours	19-3-10			

	B. Tech. Mechanical Engineering - V Semester						
S. No.	Course Code	Name of Course	L-T-P	Credits	Cours	е Туре	
		Theory Courses			UGC	AICTE	
1	ME 301	Design of Machine Elements –I	2-0-2	4	CC-C20	PCC	
2	ME 303	Applied Thermodynamics	3-1-0	4	CC-C21	PCC	
3	ME 305	Fluid Machines	2-1-0	3	CC-C22	PCC	
4	ME 307	Dynamics of Machines	2-1-0	3	CC-C23	PCC	
5	ME 309	Heat and Mass Transfer	3-1-0	4	CC-C19	PCC	
6	ME 311	Mechanical Vibrations	3-0-0	3	CC-C24	PCC	
		Practical Labs					
7	ME 313	Fluid Machines Lab	0-0-3	2	CC-C26	PCC	
8	ME 315	Heat and Mass Transfer Lab	0-0-3	2	CC-C25	PCC	
9	ME 317	Dynamics of Machines & Vibrations Lab	0-0-2	1	CC-C27	PCC	
10	GP	General Proficiency		NC			
		Total Credits		26			
		Total Contact Hours	15-4-10				

	B. Tech. Mechanical Engineering - VI Semester							
S. No.	Course Code	Name of Course	L-T-P	Credits	Course	е Туре		
		Theory Courses	•		UGC	AICTE		
1	ME 302	Design of Machine Elements –II	2-0-2	4	CC-C28	PCC		
2	ME 304	IC Engines & Gas Turbines	3-1-0	4	CC-C30	PCC		
3	ME 306	Refrigeration and Air Conditioning	3-1-0	4	CC-C29	PCC		
4	ME 308	Computer Aided Design	2-1-0	3	CC-C31	PCC		
	ME 310	Computer Aided Manufacturing	2-1-0	3				
5	ME 312	Industrial Management	3-0-0	3	CC-C32	PCC		
		Practical Courses						
6	ME 314	IC Engines & Gas Turbines Lab	0-0-3	2	CC-C33	PCC		
7	ME 316	Refrigeration and Air Conditioning Lab	0-0-2	1	CC-C35	PCC		
8	ME 318	CAD/CAM Lab	0-0-3	2	CC-C34	PCC		
9		Industrial Training - (Min. 6 Weeks) - Evaluation will be done in VII Semester						
10	GP	General Proficiency		NC				
		Total Credits		26				
		Total Contact Hours	15-4-10					

	B. Tech. Mechanical Engineering - VII Semester						
S. No.	Course Code	Name of Course	L-T-P	Credits	Cours	е Туре	
		Theory Courses			UGC	AICTE	
1	OE1	Open Elective 1	3-0-0	3	OE 1	OEC	
2	DSE 1	Departmental Elective 1	3-0-0	3	DSE 1	PEC	
3	DSE 2	Departmental Elective 2	3-0-0	3	DSE 2	PEC	
4	DSE 3	Departmental Elective 3	3-0-0	3	DSE 3	PEC	
5		HSMC Course I	3-0-0	3	AECC 5	HSMC	
	Р	ractical/Seminar/Project/Ir	nd. Train	ing Cours	ses		
6	ME 401	Project I	0-0-8	4	E-DP 1	PCC	
7	ME 403	Seminar	0-0-4	2	SEC 4	PCC	
8	ME 405	Industrial Training (Min. 4-6) Weeks) - Evaluation		5	E-DP 2	PCC	
9	GP	General Proficiency		NC			
		Total Credits		26			
		Total Contact Hours	15-1-12				

	List of Open Elective 1								
S. No.	Course Name of Course L-T-P Credits Code								
	Generic I	Elective from other Departme		ech. Department					
		Sample Courses ar	e given below-						
1	ES 417	Disaster Management	3-0-0	3					
2	MA 001	Machine Learning from	3-0-0	3					
		Data Science							
3		Cyber Security	3-0-0	3					
4			3-0-0	3					

	List of Departmental Elective 1									
S. No.	Course Code	Name of Course	L-T-P	Credits						
1	ME 407	Production Planning and Control	3-0-0	3						
2	ME 409	Tribology	3-0-0	3						
3	ME 411	Power Plant Engineering	3-0-0	3						

	List of Departmental Elective 2								
S. No.	Course Code	Name of Course	L-T-P	Credits					
1	ME 413	Maintenance Engineering	3-0-0	3					
2	ME 415	Experimental Stress Analysis	3-0-0	3					
3	ME 417	Renewable Energy Resources	3-0-0	3					

	List of Departmental Elective 3							
S. No.	Course Code	Name of Course	L-T-P	Credits				
1	ME 419	Non-conventional	3-0-0	3				
		Manufacturing Processes						
2	ME 421	Reliability Engineering	3-0-0	3				
3	ME 423	Design of Thermal Systems	3-0-0	3				

	List of HSMC Course I						
S. No.	Course Code	Name of Course	L-T-P	Credits			
1	ME 425	Basics of Operations Research	3-0-0	3			
2	MB 457	Organizational Behaviour	3-0-0	3			
3	MB 451	Financial Accounting and Analysis	3-0-0	3			
	EN 531	Language Culture and Society	3-0-0	3			
		Any MOOC (NPTEL) Course	3-0-0	3			

B. Tech. Mechanical Engineering - VIII Semester						
S. No.	Course Code	Name of Course	L-T-P	Credits	Course Type	
	Theory Courses				UGC	AICTE
1	OE2	Open Elective 2	3-0-0	3	OE 2	OEC
2	DSE 4	Departmental Elective 4	3-0-0	3	DSE 4	PEC
3	DSE 5	Departmental Elective 5	3-0-0	3	DSE 5	PEC
		HSMC Courses II	3-0-0	3	AECC 6	HSMC
Practical/Seminar/Project Courses						
4	ME 402	Project II	0-0-16	08	E-DP 3	PCC
	GP	General Proficiency		NC		
		Total Credits				
		Total Contact Hours	12-0-16	20		

List of Open Elective 2					
S. No.	Course Code	Name of Course	L-T-P	Credits	
	Generic Elective from other Department approved by Mech. Department				
	Sample Courses are given below-				
1	EE 413	Industrial Instrumentation	3-0-0	3	
		and Automation			
2	EE 428	Machine Learning	3-0-0	3	
3	ES 507	Waste Management	3-0-0	3	
4	MA 030	Finite Element Method for	3-0-0	3	
		Partial Differential Equations			

List of Departmental Elective 4				
S. No.	Course Code	Name of Course	L-T-P	Credits
1	ME 404	Industrial Automation and Robotics	3-0-0	3
2	ME 406	Engineering Optimization	3-0-0	3
3	ME 408	Solar Energy Technology	3-0-0	3

List of Departmental Elective 5				
S. No.	Course Code	Name of Course	L-T-P	Credits
1	ME 410	Financial Management	3-0-0	3
2	ME 412	Advance Synthesis of Machines	3-0-0	3
3	ME 414	Advanced Gas Dynamics	3-0-0	3

	List of HSMC Course II				
S. No.	Course Code	Name of Course	L-T-P	Credits	
1	MB 511/ ME 416	Total Quality Management	3-0-0	3	
2	MB 513/ ME 418	Entrepreneurship Development	3-0-0	3	
3	EN 522	Advance Course in Communication	3-0-0	3	
		Intellectual Property Rights Law	3-0-0	3	
		Any MOOC (NPTEL) Course	3-0-0	3	

Total Credit from Semester I to VIII of B. Tech. Mech. Engg.: 200