## School of Automobile, Mechanical & Mechatronics Engineering

## Department of Mechanical Engineering B.Tech (ME) Scheme

Teac	Teaching Scheme			Contact Hours/Week			End-term		Relative Weightage				
							Duration						
No.	Code	Course Name	L	Т	Р	С	Th.	Р.	CWS	PRS	MTE	ETE	PRE
	EO 1323	Economics	3	0	0	3	3	-	30	-	30	40	-
	MA 1313	Engineering Mathematics-III	3	0	0	3	3	-	30	-	30	40	-
	ME 1301	Materials Science and Engineering	3	0	0	3	3	-	30	-	30	40	-
ster	ME 1302	Kinematics of Machines	3	1	0	4	3	-	30	-	30	40	-
eme	ME 1303	Applied Thermodynamics	3	1	0	4	3	-	30	-	30	40	-
S III	ME 1304	Strength of Materials	3	0	0	3	3	-	30	-	30	40	-
	ME 1331	Computer Aided Machine Drawing Lab	0	0	4	2	-	2	-	60	-	-	40
	ME 1332	Strength of Materials Lab	0	0	2	1	-	2	-	60	-	-	40
		Total	18	2	6	23							

Teaching Scheme			Contact Hours/Week			End-term Exam Duration		Relative Weightage					
No.	Code	Course Name	L	Т	Р	С	Th. P.		CWS	PRS	MTE	ETE	PRE
	MA 1410	Engineering Mathematics-IV	3	0	0	3	3	-	30	-	30	40	-
	ME 1401	Fluid Mechanics & hydraulic Machines	3	1	0	4	3	-	30	-	30	40	-
	ME 1402	Dynamics of Machines	3	0	0	3	3	-	30	-	30	40	-
ster	ME 1403	Production Technology I	3	1	0	4	3	-	30	-	30	40	-
eme	BB 1101	Value, Ethics & Governance	2	0	0	2	3	-	30	-	30	40	-
IV S		Open Elective I	3	0	0	3	3	-	30	-	30	40	-
	ME 1431	Production Technology I Lab	0	0	2	1	-	2	-	60	-	-	40
	ME 1432	Fluid Mechanics & hydraulic Machines Lab	0	0	2	1	-	2	-	60	-	-	40
		Total	17	2	4	21							

## (Scheme i.e. applicable for batch 2017 onwards)

Teac	Teaching Scheme			Contact Hours/Week			End-term Exam		Relative Weightage				
							Duration	1					
No.	Code	Course Name	Durse Name L T P C Th. P. C		CWS	PRS	MTE	ЕТЕ	PRE				
	BB1540	Organization and Management	3	0	0	3	3	-	30	-	30	40	-
	ME1506	Design of Machine Elements - I	3	1	0	4	3	-	30	-	30	40	-
	ME1507	Heat & Mass Transfer		1	0	4	3	-	30	-	30	40	-
ster	ME1508	Production Technology - II	4	0	0	4	3	-	30	-	30	40	-
eme	ME15xx	Program Elective - I	3	0	0	3	3	-	30	-	30	40	-
V Sc		Open Elective - II	3	0	0	3	3	-	30	-	30	40	-
	ME1533	Production Technology - II Lab	0	0	2	1	-	2	-	60	-	-	40
	ME1534	Heat & Mass Transfer Lab	0	0	2	1	-	2	-	60	-	-	40
		Total	19	2	4	23							

	Teaching Scheme			Contact Hours/Week			End-term Exam			Relative Weightage				
							Durat	ion						
No.	Code	Course Name	L	Т	Р	С	Th.	Р.	CWS	PRS	MTE	ЕТЕ	PRE	
	ME1605	Design of Machine Elements - II	3	1	0	4	3	-	30	-	30	40	-	
	ME1606	Internal Combustion Engine	3	1	0	4	3	-	30	-	30	40	-	
	ME1607	Metrology	3	0	0	3	3	-	30	-	30	40	-	
ter	ME16XX	Program Elective - II	3	0	0	3	3	-	30	-	30	40	-	
mes	ME16XX	Program Elective - III	3	0	0	3	3	-	30	-	30	40	-	
/I Se		Open Elective - III	3	0	0	3	3	-	30	-	30	40	-	
-	ME1633	Internal Combustion Engine Lab	0	0	2	1	-	2	-	60	-	-	40	
	ME1634	Metrology Lab	0	0	2	1	-	2	-	60	-	-	40	
		Total	18	2	4	22								

## (Scheme i.e. applicable for batch 2017 onwards)

Teaching Scheme			Cor Hou	Contact Hours/Week				End- term Exam Duration			Relativ	ve Weig	htage
No.	CodeCourse NameLTPCTh.P.		CWS	PRS	MTE	ETE	PRE						
	ME1706	Refrigeration and Air Conditioning	3	0	0	3	3	-	30	-	30	40	-
	ME1707	Mechanical Vibration	4	0	0	4	3	-	30	-	30	40	-
	ME1708	Computer Integrated Manufacturing	3	0	0	3	3	-	30	-	30	40	-
	ME1709	Computer Aided Design	3	0	0	3	3	-	30	-	30	40	-
≤I	ME17xx	Program Elective IV	3	0	0	3	3	-	30	-	30	40	-
I Sei	XXXXXX	Open Elective IV	3	0	0	3	3	-	30	-	30	40	-
nest	ME1732	Mechanical Vibration Lab	0	0	2	1	-	2	-	60	-	-	40
er	ME1733	Refrigeration and Air- Conditioning Lab	0	0	2	1	-	2	-	60	-	-	40
	ME1734	Computer Aided Design Lab	0	0	2	1	-	2	-	60	-	-	40
	ME1780	Seminar	0	0	2	1	-	-	-	-	-	100	-
	ME1781	Summer/Industrial Training*	-	-	-	1	-	-	-	-	-	100	-
		Total	19	0	8	24							

Teaching Scheme				tact ]	Hours/W	eek	Relative Weightage				
No.	Code	Course Name	L	Т	Р	С	Continuous Evaluation	Mid Term Evaluation	End Term Evaluation PRE		
er	ME1881	Major Project / Dissertation				12	30	40	30		
VIII Semest		Total	-	-		12					

\*Industrial Training will be conducted during the summer vacations after VI Semester and evaluated in VII Semester

	ABBREVIATIONS							
L	Lecture							
Т	Tutorial							
Р	Practical							
С	Number of Credits							
CWS	Class Work Sessional							
MTE	Mid-Term Exam							
PRE	End Term Practical Exam							
PRS	Practical Sessional							
ETE	End Term Exam							

Program Elective-I, II, III & IV							
ME1553	Industrial Engineering						
ME1554	Finite Element Methods						
ME1555	Turbomachinery						
ME1556	Composite materials						
ME1653	Optimisation Techniques						
ME1654	Introduction To Micro Electro Mechanical Systems						
ME1655	Tool Engineering						
ME1656	Alternative Fuels In I.C. Engines						
ME1657	Advanced Manufacturing Techniques						
ME1658	Production and Operations Management						
ME1659	Heat treatment						
ME1660	Automatic Control Engineering						
ME1756	Robotics						
ME1757	Power plant Engineering						
ME1758	Renewable Energy Systems						
ME1759	Aerodynamics						
ME1760	Computational Fluid Dynamics						

	Open Elective- I, II, III & IV								
ME1491	Introduction to Nanotechnology								
ME1492	Smart Materials								
ME1592	Welding Technology								
ME1593	Modern Manufacturing								
ME1594	Designing for Automation								
ME1595	Industrial Metrology								
ME1596	Introduction to Computer Graphics								
ME1692	Non-destructive Testing								
ME1693	Reliability, Availability and Maintenance Engineering								
ME1694	Energy Conservation, Audit and Management								
ME1695	Theory of Combustion and Emissions								
ME1696	Optimization in Engineering Design								
ME1791	Quality Management								
ME1792	Principles of Industrial Engineering								
ME1793	Engineering Economy								
ME1794	Production Planning and Control								
	•								