(MDM) Somostor 1				
Course Name Semester 1	I	Р	С	Category
Calculus	3	0	3	BSC
		0	3	BSC
Engineering Mechanics		0	3	BEC
Computational Engineering		0	3	DES
Concepts in Engineering Design		0	2	HMC
English for Communication		0		
Earth, Environment & Design		2	P/F	DES
Engineering Skills Practice		3	2	BEC
Materials & Mechanics Practice		3	2	BSC
Computational Engineering Practice	0	3	2	BEC
Engineering Graphics	1	3	3	DES
Total	17	12	23	
Semester 2	T	D	G	
Course Name		P	<u>C</u>	Category
Differential Equations	3	0	3	BSC
Engineering Electromagnetics	3	0	3	BSC
Science and Engineering of Materials	3	0	3	BEC
Basic Electrical & Electronics Engineering	3	0	3	BEC
Design History	2	0	2	DES
Professional Ethics for Engineers	2	0	P/F	HMC
Industrial Design Sketching	0	3	2	BEC
Measurement & Data Analysis Practice	0	3	2	BSC
Engineering Electromagnetics Practice	0	3	2	BSC
Design Realization	0	3	2	DES
Total	16	12	22	
Semester 3				
Course Name	Ι	P	С	Category
Linear Algebra	3	0	3	BSC
Thermal Engineering - Concepts and Applications	3	0	3	PEC
Mechanics of Materials	3	0	3	PEC
Basic Concepts in Manufacturing Processes	3	0	3	PEC
Electrical Drives	1	3	3	PEC
Machine Drawing and Manufacturability Analysis	0	3	2	
Practice				PEC
Product Realization Practice	0	3	2	PEC
Engineering Economics	3	0	3	HMC
Total	16	9	22	
Semester 4		D	G	
Course Name	I	P	C	Category
Numerical Methods	3	0	3	BSC
Fluid Mechanics and Heat Transfer	3	0	3	PEC
Kinematics and Dynamics of Mechanisms		0	3	PEC
Quality Inspection and Product Validation		0	3	PEC
Mechanical Design Practice	0	3	2	PEC
Quality Inspection and Product Validation Practice	0	3	2	PEC
Fluid Mechanics and Heat Transfer Practice	0	3	2	PEC
Sociology of Design		0	3	DES

Curriculum B.Tech Mechanical Engineering with specialization in Design and Manufacturing (MDM)

Total	15	9	21	
Semester 5				1
Course Name	Ι	P	C	Category
Entrepreneurship and Management Functions		0	3	HMC
Thermal Energy Systems		0	3	PEC
Design of Machine elements		0	3	PEC
Automation in Manufacturing		0	3	PEC
Sensors and Controls	3	0	3	PEC
Sensors and Controls Practice	0	3	2	PEC
Thermal Engineering Practice	0	3	2	PEC
Manufacturing Automation Practice	0	3	2	PEC
Total	15	9	21	
Semester 6	·			
Course Name	Ι	P	C	Category
Design for Quality and reliability	3	0	3	DES
Computational Methods in Engineering	3	0	3	PEC
Computer Aided Design and Manufacturing	3	0	3	PEC
Elective – I	3	0	3	ELE
Elective – II		0	3	ELE
Microprocessors and Controllers		3	3	PEC
Mechanical Design Simulation Practice		3	2	PEC
Product Design Practice	0	3	2	PCD
Total	16	9	22	
Semester 7				
Course Name	Ι	P	C	Category
Internship	0	-	5	PCD
Free Elective – I	3	0	3	ELE
Design Project	0	6	5	DES
Total	3	6	13	
Semester 8				
CourseName	Ι	P	C	Category
Elective – III	3	0	3	ELE
Free Elective-II	3	0	3	ELE
Design Elective	3	0	3	DES
Project	0	-	10	PCD
Total	9		19	

Note:

Elective courses such as Designing Intelligent systems, Sustainable Design, Systems thinking for design will be offered as a group to choose in Design Elective *Internship is for a period of 5 months

Catagoriu	Credit	Credit
Category	Distribution	Distribution in %
		15
BSC	24	
		10
BEC	16	
		14
DES	23	
		9
Elective	15	
		5
HMC	8	
		36
PEC	60	
		11
PCD	17	
Total	163	

