Program Structure

M.Tech in Mechanical Engineering

Production and Industrial Engineering

Semester-I

		Schiester-1					
S No	Course Code	Course Title	L	Т	P	C	Pre-requisite
1	Will be provided by ERP	Adv, Numerical and Statistical method	3	1	0	3	-
2	Will be provided by ERP	Production and Operations Management	3	0	0	3	-
3	Will be provided by ERP	Statistical Quality Control	3	0	0	3	-
4	Will be provided by ERP	Advance Manufacturing Processes	3	0	0	3	-
5	Will be provided by ERP	Advanced Materials Processing	3	0	0	3	-
6	Will be provided by ERP	Rapid Prototyping	3	0	0	3	-
7	Will be provided by ERP	Rapid Prototyping Lab	0	0	2	1	
	Total credits	·			•	19	
Semester-II							
S No	Course Code	Course Title	L	T	P	C	Pre-requisite
1	Will be provided by ERP	Professional and Communication Skills	0	0	4	2	-
2	Will be provided by ERP	Industrial Robotics	2	1	0	3	-
3	Will be provided by ERP	Precision Engineering	3	0	0	3	-
4	Will be provided by ERP	Industrial Automation and Artificial Intelligence	3	0	0	3	-
5	Will be provided by ERP	Optimization Techniques and Applications	2	0	0	2	-
6	Will be provided by ERP	Elective 1	3	0	0	3	-
7	Will be provided by ERP	Elective 2	3	0	0	3	
	Total credits					19	
Semester-III							
S No	Course Code	Course Title	L	Т	P	С	Pre-requisite
1	Will be provided by ERP	Modelling, Simulation and Analysis Lab	0	0	4	2	-
				l l		1	

3	Will be provided by ERP	Elective 3	3	0	0	3	_
4	Will be provided by ERP	Elective 4	3	0	0	3	_
5	Will be provided by ERP	Elective 5	3	0	0	3	-
	Will be provided by ERP	Total Credits				16	
Semester-IV							
S No	Course Code	Course Title	L	T	P	С	Pre-requisite
1	Will be provided by ERP	Dissertation-2	-	-	-	15	_
	Total cre	dits					15
	Elective 1						
Code	Subject						
Will be provided by ERP	Supply Chain Management						
Will be provided by ERP	Advanced Metal Cutting						
Will be provided by ERP	Production planning and control						
Will be provided by ERP	Electronics and Microcontrollers						
	Elective 2						
Code	Subject						
Will be provided by ERP	Mechanical Automation and Mechatronics						
Will be provided by ERP	Non Destructive Testing						
Will be provided by ERP	Unconventional Manufacturing Methods						
Will be provided by ERP	Mechanical Metallurgy						
	Elective 3						
Code	Subject						
Will be provided by ERP	Reliability Engineering						
Will be provided by ERP	Product Design and Manufacturing						
Will be provided by ERP	Material Selection in Engineering						
Will be provided by ERP	Green & Lean Manufacturing						
Will be provided by ERP	Advanced casting						
	Elective 4						
Code	Subject						

Will be provided by ERP	Design for Manufacturing and Assembly			
Will be provided by ERP	Industrial Economics			
Will be provided by ERP	Industrial Corrosion and Tribology			
Will be provided by ERP	Finite Element Techniques in Design			
Will be provided by ERP	Micro-Electro Mechanical System (MEMS)			
Elective 5				
Code	Subject			
Will be provided by ERP	Facility Planning & Plant Engineering			
Will be provided by ERP	Advanced Welding Technology			
Will be provided by ERP	Advanced Machining Processes			
Will be provided by ERP	Industrial Waste Management			
Will be provided by ERP	Ergonomics and Human Factor Engineering			