

**VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)
DEPARTMENT OF MECHANICAL ENGINEERING**

**List of Professional Electives for ME (ADM) offered by the Department of Mechanical Engineering
AY 2022-23**

S. No.	Professional Elective No.	Name of Professional Elective	PE Code	No. of Credits	Offered to
1	Professional Elective-I	Mechanical Vibrations	PI22PE100ME	3	ME (ADM) I Semester
2		Advanced Kinematics	PI22PE110ME	3	
3		Robotic Engineering	PI22PE120ME	3	
4	Professional Elective-II	Flexible Manufacturing Systems	PI22PE130ME	3	
5		Quality and Reliability Engineering	PI22PE140ME	3	
6		Nano Science and Technology	PI22PE150ME	3	
7	Professional Elective-III	Finite Element Method	PI22PE160ME	3	
8		Experimental Techniques and Data Analysis	PI22PE170ME	3	
9		Fracture Mechanics	PI22PE180ME	3	
10	Professional Elective-IV	Advanced Finite Element Analysis	PI22PE200ME	3	ME (ADM) II Semester
11		Tribology in Design	PI22PE210ME	3	
12		Mechanics of Composite Materials	PI22PE220ME	3	
13	Professional Elective-V	Advanced Non Destructive Evaluation Techniques	PI22PE300ME	3	ME (ADM) III Semester
14		Additive Manufacturing	PI22PE310ME	3	
15		Mechatronics	PI22PE320ME	3	
16	Professional Elective-VI	Optimization Techniques	PI22PE330ME		
17		Theory of Elasticity and Plasticity	PI22PE340ME		
18		Computational Fluid Dynamics	PI22PE350ME		