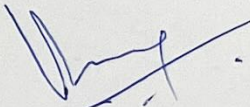


**VASAVI COLLEGE OF ENGINEERING: HYDERABAD**  
**DEPARTMENT OF MECHANICAL ENGINEERING**

**Professional Electives offered by the Department of Mechanical Engineering in the Academic Year 2023-24**

S No	Professional Elective No.	Name of Professional Elective	PE Code	No Credits /Hours	Offered to
1	Professional Elective – II	Robotics	U20PE710ME	3	B.E.VII Semester - Mechanical Engineering
2		Computer Integrated Mfg.	U20PE720ME	3	
3		Refrigeration and Air conditioning	U20PE730ME	3	
4		Supply Chain Management	U20PE740ME	3	
5		Automotive Transmission	U20PE750ME	3	
6	Professional Elective – III	Theory of Elasticity	U20PE760ME	3	
7		Nano Technology	U20PE770ME	3	
8		Advanced IC Engines	U20PE780ME	3	
9		Production and Operations Management	U20PE790ME	3	
10		Vehicle Dynamics	U20PE712ME	3	
11	Professional Elective – IV	Control Systems Theory	U20PE713ME	3	
12		Additive Manufacturing Technologies	U20PE714ME	3	
13		Renewable Energy Systems	U20PE715ME	3	
14		Value Analysis and Value Engineering	U20PE716ME	3	
15		Vehicle Body Engineering	U20PE717ME	3	
16	Professional Elective – V	Product Design and Development	U20PE810ME	3	B.E.VIII Semester - Mechanical Engineering
17		Introduction to Flexible Manufacturing Systems	U20PE820ME	3	
18		Power Plant Engineering	U20PE830ME	3	
19		Optimization Techniques	U20PE840ME	3	
20		Automotive Aero Dynamics	U20PE850ME	3	
21	Professional Elective – V	Composite Materials	U20PE860ME	3	
22		Product Life Cycle Management	U20PE870ME	3	
23		Computational Fluid Dynamics	U20PE880ME	3	
24		Artificial Intelligence and Machine Learning	U20PE890ME	3	
25		Unmanned Arial Vehicles	U20PE812ME	3	

  
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