



**D Y PATIL**  
**UNIVERSITY**  
PUNE

**D Y Patil University, Ambi, Pune**  
**School of Engineering and Technology**  
**Department of Mechanical Engineering**  
**Subject Basket for M.Tech. (Mechanical-Design Engineering)**

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School of Engineering and Technology

Ambi, Talegaon, Pune

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**M.Tech (Mechanical-Design Engineering) Program for Academic Year 2020-21**  
**Batch 2020-2022**

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**Subject Basket**



<b>Courses in First Year Design Engg.</b>	<b>Courses in Second Year Design Engg.</b>
<b>Semester I</b>	<b>Semester III</b>
Mathematical Modelling	Acoustics & Noise Control
Design with Advanced Engineering Materials	Advanced Engineering Design
Theory of Elasticity & Plasticity	<b>Elective-III</b>
Design of Experiments & Research Methodology	Seminar-II
<b>Elective-I</b>	Project Stage-I
*Matlab, Minitab, ANSYS	*Lab View/UG-NX/ANSYS
<b>Semester II</b>	<b>Semester IV</b>
Advanced Mechanical Vibration	Project stage-II
Analysis & Synthesis of Mechanisms	
Experimental Stress Analysis	
<b>Elective-II</b>	
Seminar-I	
* Lab View/ ANSYS	



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<b>Electives Semester I, II and III</b>		
<b>Elective-I</b>	<b>Elective-II</b>	<b>Elective-III</b>
Advanced Composites	Advanced Optimization Techniques for Engineers	Design for X
Finite Element Methods	Industrial Safety Engineering	Applied Aesthetics& Ergonomics
Process Equipment Design	Fatigue & Fracture Mechanics	Design of Computer Aided Engineering System
Reliability Engineering	Tribology in Design	Sustainable Design