

Faculty of Mechanical Engineering

M.E. Engineering Design

(R 2021) Semester – I

Course Code: ED4111		
Course Title : CAD and Design for Manufacture and Assembly Laboratory		
Sl. No.	Description of Equipment	Required members (for batch of 25 students)
1.	Modeling packages like Pro- E/ Solid works/ CATIA/ NX etc.	30 license
2.	DFMA Software	30 license

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Course Code : ED 4161 Course title : Vibration Laboratory		
Sl.No.	Description of Equipment	Required members (for batch of 25 students)
1	Spring Mass fixture set up with 3 springs, 5 loads, load hanger, scale, stopwatch	5
2	Shaft rotor setup with one end fixed and other end supported to rotor, 4 loads, scale and stopwatch.	5
3	Shaft rotor setup with one end fixed and other end attached to rotor submerged in oil / fluid with 4 loads, scale and stopwatch.	5
4	Shaft supported at its end (different support conditions) rotated at different speeds by motor coupled to shaft, with digital speed display, scale.	5
5	Free vibration set up of a demonstration specimen supported in a fixture (different support conditions like cantilever), scale, accelerometer, Data Acquisition system, PC installed with model analysis software and impact hammer.	5
6	Forced vibration set up of a supported under different end conditions with accelerometer, Data Acquisition system, Modal shaker PC installed with model analysis software.	5
7	Tri-filar suspension set up to determine radius of gyration of irregular body.	5

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(R 2021) Semester – II

ED4261 SIMULATION AND ANALYSIS LABORATORY

Sl.No.	Description of Equipment	Required Numbers
1.	Finite Element Analysis packages Ansys workbend – Academic version Desktop Computer with high end configuration	20 numbers

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PD4261 PRODUCT DESIGN LABORATORY

Sl.No.	Description of Equipment	Required Numbers
1.	Fused Deposition Modeling Machine	1 Nos
2.	Digital Light Processing Machine	1 Nos