Faculty of Mechanical Engineering

M.E. Engineering Design
(R 2017) Semester – I
ED 5161 CAD Laboratory
(Requirements for a batch of 25 students)

Sl. No.	Description of Equipment	Quantity required (R)	Quantity available (A)	Deficiency (R - A)
1.	Modeling and drafting of Mechanical components – Assembly using Parametric and feature based Packages like PRO-E / SOLID WORKS /CATIA / NX etc	25		
2.	Printer	1		

Faculty of Mechanical Engineering

M.E. Engineering Design
(R 2017) Semester – I
ED5162 Advanced Analysis and Simulation Laboratory
(Requirements for a batch of 25 students)

Sl. No.	Description of Equipment	Quantity required (R)	Quantity available (A)	Deficiency (R - A)
1.	Simulation Software – kinematics and dynamics simulation software like ADAMS , MATLAB etc	25		
2.	Analysis software – FEA Packages like ANSYS / NASTRAN ABAQUS etc	25		
3.	Color Printer	1		

Faculty of Mechanical Engineering

M.E. Engineering Design
(R 2017) Semester – II
ED 5261 Vibration Laboratory
(Requirements for a batch of 25 students)

Sl. No.	Description of Equipment	Quantity required (R)	Quantity available (A)	Deficiency (R - A)
1.	Frequency of undamped free vibration set-up of an equivalent spring mass system	2		
2.	Frequency of damped forced vibration set-up of an spring-mass system	2		
3.	Natural Frequency of undamped torsional vibration set-up of single rotor shaft system	2		
4.	Natural Frequency of undamped torsional vibration set-up of two rotor shaft system	2		
5.	Forced vibration set-up of a beam with different damping coefficients	2		
6.	Compound pendulum set-up for determination of its radius of gyration	2		
7.	Bar with bi-filar suspension set-up determination of its radius of gyration	2		
8.	Tri-filar suspension set-up for determination of its radius of gyration	2		
9.	Journal bearing test rig for studying the pressure profile of lubricant for different loads and speeds	2		
10.	Beam with point loads set-up under any support condition for verification of dunkerlay's rule	2		