

SYNERGY POLYTECHNIC, BHUBANESWAR
DEPARTMENT OF MECHANICAL ENGINEERING
Mechanical Laboratory Equipment

Sl No.	Department Name	Laboratory Name	Equipment/Machine Available
01	Mechanical Engineering	Mechanical Engineering Laboratory I	1. Parallel Force Apparatus 2. Searle's Apparatus 3. Digital Universal Testing Machine 4. Flash Point And Fire Point Apparatus 5. Joules Apparatus
02	Mechanical Engineering	Workshop Laboratory	1. Lathe Machine- 03 2. Drilling Machine- 02 3. Power Hacksaw- 01 4. Bench Vice- 20 5. CNC Lathe- 01 6. CNC Milling- 01
03	Mechanical Engineering	Mechanical Engineering Drawing	Engineering Drawing Table- 50
04	Mechanical Engineering	Theory of Machine Laboratory	1. GOVERNOR APPARATUS 2. JOURNAL BEARING APPARATUS 3. CAM ANALYSIS APPARATUS 4. EPICYCLIC GEAR TRAIN 5. VERNIER CALLIPER
05	Mechanical Engineering	Mechanical Engineering Laboratory II	1. Model of 2 Stroke Petrol Engine 2. Model of 4 Stroke Petrol Engine 3. Model of 2 Stroke Diesel Engine 4. Model of 4 Stroke Diesel Engine 5. Single Stage Air Compressor Test Rig
06	Mechanical Engineering	Refrigeration and Air conditioning lab	1. Domestic Refrigerator Test Rig 2. Vapour Absorption Test Rig 3. Split Air Conditioner Test Rig 4. Water Cooler Test Rig
07	Mechanical Engineering	Hydraulic machines & Industrial Fluid power lab	1. PELTON WHEEL Test Rig 2. Kaplan turbine Test Rig 3. Francis turbine Test Rig 4. Centrifugal pump Test Rig
08	Mechanical Engineering	CAD/CAM Lab	1. DESKTOP COMPUTER with UPS- 80 2. AUTOCAD SOFTWARE 2D/3D installed 3. CNC TURNING MACHINE- 01 4. CNC MILLING MACHINE- 01

09	Mechanical Engineering	Automobile Engineering Laboratory	<ol style="list-style-type: none"> 1. Chassis of a Car 2. Differential of a Car 3. Hydraulic brake system of a car 4. Car Type Carburetor 5. Cut section of a fuel pump 6. New car engine 7. Gear box
10	Mechanical Engineering	Power Station Laboratory	<ol style="list-style-type: none"> 1. Jet Cooling Tower Model 2. Surface Cooling Tower Apparatus 3. Babcock and Wilcox boiler Model 4. Lancashire boiler Model 5. Vertical water steam boiler model