SECTION HEADING

MECH 1102: Mechanical Systems I

Description

Mechanical Systems I introduces students to fundamental industrial mechanical concepts, principles, and equipment.

Credits

2

Prerequisite

None

Corequisite

None

Topics to be Covered

1. Shop safety
2. Precision Measurement
3. Print reading
4. Tools
5. Lubrication
6. Bearings
7. Flexible belt, mechanical and chain drives
8. Vibration and alignment
9. Preventive Maintenance

Learning Outcomes

1. Identify and control potential safety hazards and implement safe working practices.
2. Demonstrate proper use of various tools and measuring devices.
3. Identify the function and types of lubricants.
4. Demonstrate selection and installation of common belts drives, bearings, gears, and chain drives.
5. Calculate speed and torque ratios produced by mechanical drives.
6. Perform shaft alignments with various measuring devices.

Credit Details

Lecture: 1

Lab: 1

OJT: 0

MnTC Goal Area(s): None