DEPT. MECH COURSE NUMBER: 1102

NUMBER OF CREDITS: 2 Lecture: 1 Lab: 1 OJT: 0

Course Title:
Mechanical Power Transmission

Catalog Description:
Mechanical Power Transmission introduces students to fundamental industrial mechanical concepts, principles, and equipment.

Prerequisites or Necessary Entry Skills/Knowledge:
None

FULFILLS MN TRANSFER CURRICULUM AREA(S) (Leave blank if not applicable)
☐ Goal 1: Communication: By meeting the following competencies:
☐ Goal 2: Critical Thinking: By meeting the following competencies:
☐ Goal 3: Natural Sciences: By meeting the following competencies:
☐ Goal 4: Mathematics/Logical Reasoning: By meeting the following competencies:
☐ Goal 5: History and the Social and Behavioral Sciences: By meeting the following competencies:
☐ Goal 6: The Humanities and Fine Arts: By meeting the following competencies:
☐ Goal 7: Human Diversity: By meeting the following competencies:
☐ Goal 8: Global Perspective: By meeting the following competencies:
☐ Goal 9: Ethical and Civic Responsibility: By meeting the following competencies:
☐ Goal 10: People and the Environment: By meeting the following competencies:

Topics to be Covered
Shop safety
Precision Measurement
Print reading
Tools
Lubrication
Bearings
Flexible belt, mechanical and chain drives
Vibration and alignment
Preventive Maintenance
### Student Learning Outcomes

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<th>Outcome</th>
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<tr>
<td>Identify and control potential safety hazards and implement safe working practices.</td>
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<td>Demonstrate proper use of various tools and measuring devices.</td>
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<td>Identify the function and types of lubricants.</td>
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<td>Demonstrate selection and installation of common belts drives, bearings, gears, and chain drives.</td>
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<td>Calculate speed and torque ratios produced by mechanical drives.</td>
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<td>Perform shaft alignments with various measuring devices.</td>
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**Is this course part of a transfer pathway:**  Yes ☐  No  ☒  
*If yes, please list the competencies below*

Revised Date: 1/26/2022