

Standing Requirements

Outcomes Library

BS in Mechanical Engineering Technology

Program Educational Objective 1: Solve technical problems

Apply the latest technology and engineering tools to solve technical problems in the practice of mechanical engineering technology and related interdisciplinary fields.

Outcome	Mapping
SLO a: Appropriate mastery of techs, skills, and tools an appropriate mastery of the knowledge, techniques, skills, and	No Mapping
modern tools of the MET discipline	
SLO b: Apply current knowledge, adapt to emerging applications	No Mapping
an ability to apply current knowledge and adapt to emerging applications of mathematics, science, engineering, and technology.	
SLO c: Conduct, analyze and interpret experiments	No Mapping
an ability to conduct, analyze and interpret experiments, and apply experimental results to improve processes.	
SLO d: Apply creativity in the design of systems	No Mapping
an ability to apply creativity in the design of systems, components, or processes appropriate to the MET program educational objective.	
SLO f: Identify, analyze and solve technical problems	Foundational Studies: 2. Critically evaluate the ideas of others.
an ability to identify, analyze and solve technical (close-ended analysis and open-ended design) problems.	
PO 1: Develop, simulate, and analyze mechanical systems	No Mapping
Develop, simulate, and analyze mechanical components/systems using computer-aided design and analysis tools.	
PO 2: Select engineering materials	No Mapping
Select engineering materials for specific applications.	
PO 3: Identify and inspect tolerances	No Mapping
Identify and inspect tolerances in mechanical parts and assemblies.	
PO 4: Manage design work/processes.	No Mapping
Manage design work/processes.	
PO 5: Implement design and produce parts.	No Mapping
Implement design and produce parts.	
PO 6: Estimate cost and manage engineering projects.	No Mapping
Estimate cost and manage engineering projects.	
PO 7: Analyze/plan system's control and integration.	No Mapping
Recognize the need and analyze/plan the requirement for system's control and integration.	
PO 8: Provide an integrated educational experience	No Mapping
Provide an integrated educational experience that develops the ability of students to apply pertinent knowledge to solving problems in MET specialty.	

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Program Educational Objective 2: Remain technically current with continuous learning

Remain technically current and adapt to rapidly changing technologies through self improvement with continuous learning or post-graduate education.

Outcome	Mapping
SLO h: Engage in lifelong learning.	No Mapping
a recognition of the need for, and an ability to engage in lifelong learning.	
SLO k: Quality, timeliness, and continuous improvement	No Mapping
a commitment to quality, timeliness, and continuous improvement.	

Program Educational Objective 3: Demonstrate independent thinking, self-management, and functioning effectively in team-oriented activities

Demonstrate independent thinking, self-management, and functioning effectively in team-oriented and open-ended activities in an industrial environment.

Outcome	Mapping
SLO e: An ability to function effectively on teams	No Mapping
an ability to function effectively on teams.	

Program Educational Objective 4: Communicate effectively in oral, written, and graphical forms.

Outcome	Mapping
SLO g: Communicate through engineering drawings, reports	Foundational Studies: 10. Express themselves effectively, professionally, and persuasively both orally and in writing.
an ability to communicate effectively through engineering drawings,	professionally, and persuasively both orally and in writing.
written reports, or oral presentations.	

Program Educational Objective 5: Perform ethically and professionally in business, industry, and society.

Outcome	Mapping
SLO i: understand professional, ethical, social responsibility	No Mapping
an ability to understand professional, ethical and social responsibilities.	

Program Educational Objective 6: Develop leadership skills and responsibility in their chosen career field.

Outcome	Mapping
SLO e: An ability to function effectively on teams.	No Mapping
an ability to function effectively on teams.	

Program Educatioanl Objective 7: Understand global issues and the impact of technology and engineering solutions

Understand global issues and the impact of technology and engineering solutions on the society and environment.

Outcome	Mapping
SLO j: A respect for diversity	No Mapping
a respect for diversity and a knowledge of contemporary professional, societal and global issues.	

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