

MECHANICAL ENGINEERING STUDENT OUTCOMES:

1a. Fundamentals: An ability to apply knowledge of mathematics (including multivariate calculus and differential equations), science, and engineering, to model and analyze physical systems, components or processes.

2b. Experiment: An ability to design and conduct experiments, as well as to analyze and interpret data

3c. Design: An ability to design and realize a physical system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability

4d. Teams: An ability to function on multidisciplinary teams

5e. Problem Solving: An ability to identify, formulate, and solve engineering problems

6f. Ethics: An understanding of professional and ethical responsibility

7g. Communication: An ability to communicate effectively

8h. Broad Education: The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context

9i. Life-Long Learning: A recognition of the need for, and an ability to engage in lifelong learning

10j. Contemporary Issues: A knowledge of contemporary issues

11k. Modern Skills/Tools: An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice

ME14. Mechanical Systems: An ability to work professionally in mechanical systems areas.

ME15. Thermal Systems: An ability to work professionally in thermal systems areas.