



ASSESSMENT

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BS-Engineering: Mechanical Program-Level Student Learning Outcomes

- A good understanding of mathematics, science, and engineering, and an ability to apply this knowledge in engineering practice;
- An ability to design and conduct experiments, as well as to acquire, analyze, and interpret data;
- An ability to function on multi-disciplinary teams;
- An ability to identify, formulate, and solve engineering problems;
- An understanding of professional and ethical responsibility;
- An ability to communicate effectively, both orally and in writing;
- The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context;
- A recognition of the need for, and an ability to engage in, life-long learning;
- A knowledge of contemporary issues;
- An ability to use the techniques, skills, and modern engineering tools necessary for entry-level practice in their area of concentration;
- An ability to analyze and design a system, component, or process to meet desired needs in their area of concentration within realistic constraints such as economic, desired needs in their area of concentration within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.