

## **B.S.E. in Mechanical Engineering**

### **Educational Objectives**

1. Our graduates will be successfully employed in engineering or other related industries and will advance in their professional fields.
2. Our graduates will possess adequate technical skills and knowledge for identifying, formulating and developing innovative solutions to mechanical engineering problems using modern engineering techniques and tools.
3. Our graduates will engage in life-long learning through graduate studies and/or professional development activities.
4. Our graduates will effectively communicate technical information and apply mechanical engineering solutions with strong social and ethical responsibility.

### **Program Outcomes**

- (a) an ability to apply knowledge of mathematics, science, and engineering
- (b) an ability to design and conduct experiments, as well as to analyze and interpret data
- (c) an ability to design a system, component, or process to meet desired needs
- (d) an ability to function on multi-disciplinary teams
- (e) an ability to identify, formulate, and solve engineering problems
- (f) an understanding of professional and ethical responsibility
- (g) an ability to communicate effectively
- (h) the broad education necessary to understand the impact of engineering solutions in a global and societal context
- (i) a recognition of the need for, and ability to engage in life-long learning and graduate studies
- (j) a knowledge of contemporary issues
- (k) an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice