**Engineering Program Educational Objectives**

*After 4 to 5 years of graduation a B.Tech graduate would be able to*

• Plan, design, construct, maintain, analyze, advance, and manage engineering projects of

moderate complexity

• Pursue professional licensure and certifications

• Engage in life-long learning and pursue advanced level studies

• Demonstrate leadership skills through career advancement and active participation in the

engineering profession and in the community

**Engineering Student Outcomes**

Students who complete the *B.Tech* degree in engineering will be able to:

1. An ability to apply knowledge of mathematics, science, and engineering,

2. The ability to conduct laboratory experiments and to critically analyze and interpret

experimental data

3. The ability to perform engineering design by means of design experiences integrated

throughout the professional component of the curriculum,

4. An ability to function on teams, that must integrate contributions from different areas of

engineering towards the solution of multi-disciplinary projects,

5. An ability to identify, formulate, and solve engineering problems,

6. An understanding of professional practice issues in engineering including professional

and ethical responsibility

7. An ability to write and speak effectively,

8. The broad education necessary to understand the impact of engineering solutions in a

global and societal context,

9. A recognition of the need for, and an ability to engage in life-long learning,

10. An ability to use the techniques, skills, and modern tools necessary for engineering

practice

11. Possess a thorough understanding of techniques that are appropriate to administer and

evaluate contracts, documents and codes

12. Possess ability to estimate costs, estimate quantities and evaluate materials for real

application purposes