Program Outcomes

1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and mechanics to the solution of chemical engineering problems.

2. Problem analysis: Identify, formulate, and analyze chemical engineering problems to arrive at substantiated conclusions using the principles of mathematics, and engineering sciences.

3. Design/development of solutions: Design solutions for chemical engineering problems and design system components, processes to meet the specifications with consideration for the public health and safety, and the cultural, societal, and environmental considerations.

4. Conduct investigations of complex problems: An ability to design and conduct experiments, as well as to analyze and interpret data.

5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to chemical engineering problems with an understanding of the limitations.

6. The engineer and society: Apply critical reasoning by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the chemical engineering practice.

7. Environment and sustainability: Understand the impact of the Chemical engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

8. Ethics: An understanding of professional and ethical responsibility.

9. Individual and team work: Function effectively as an individual, and as a member or leader in teams, and in multidisciplinary settings.

10. Communication: Ability to communicate effectively. Be able to comprehend and write effective reports documentation.

11. Project management and finance: Demonstrate knowledge and understanding of engineering and management principles and apply this to chemical engineering problem.

12. Life-long learning: ability to engage in life-long learning in the broadest context of technological change.