

## **Civil Engineering Department**

### ***Programme specific objectives***

- The Graduates of the Programme will Achieve excellence in engineering decision-making and design
- Attain leadership careers in engineering practice
- Complete graduate professional engineering education with ethical and societal responsibility.
- Pursue advanced study and research in engineering, and
- Engage in diverse, alternative career choices.

### ***Programme specific outcomes***

#### ***The graduates of the Civil Engineering Programme will be able to***

- Problem Solving: ability to identify, formulate, and find the solution for complex problems of civil engineering by applying the knowledge of mathematics, science and principles of civil engineering.
- Design: ability to apply civil engineering design principles to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors;
- Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions related to Civil Engineering problems.
- Create, select, and apply suitable techniques, resources, and modern engineering tools such as CAD, STAAD, etc., and modelling to complex Civil Engineering activities with an understanding of the limitations.
- Professional and Ethical Responsibility: Understand the impact of the professional Civil Engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development. Apply ethical principles and commit to professional ethics and responsibilities and norms of the Civil Engineering practice.
- Teamwork: an ability to perform effectively in a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives