ENGINEERING SYSTEMS

Learning Outcomes

- Students will demonstrate broad knowledge of the several varieties
 of engineering systems, including their inter-relationships, in their
 course work, qualifying examination, comprehensive examination,
 and dissertation.
- Students will demonstrate specialized knowledge within the engineering fields (civil, environmental, electrical, mechanical, and computer engineering) in their course work, qualifying examination, comprehensive examination, and dissertation.
- Students will exhibit mastery of the interdisciplinary mindset by applying the knowledge, theories, skills, and methods of two or more disciplines acquired during course work in their independent research.
- Students will identify areas in their field of study in which they can contribute original research, create new knowledge, and develop solutions to real-world problems.
- 5. Having studied ethics in a required course, students will choose ethical courses of action in their research projects.
- Students will develop oral and written communication skills by sharing their research findings in their dissertations, conference presentations, and papers published in academic journals and proceedings.
- 7. Students will demonstrate the ability to assist faculty in classroom instruction and laboratory exercises.
- Graduates will exhibit their acquisition of critical thinking skills by independently analyzing and critiquing published scholarship and by assessing its implications in the world.
- Graduates will become prepared to be leaders in society who are capable of overseeing projects and addressing problems in an effective and ethical way.