

Course Syllabus

Course Code and Name	EE 26221 –Introduction to Engineering Design
Credit and contact hours	2 (2, 0, 0) (Lecture, Tutorial, Lab)
Required or Elective	Required
Level / Year	Level (3) / Year (2)
Course Prerequisite	-
Textbook	Philip Kosky, Robert T. Balmer, William D. Keat, George Wise, “Exploring Engineering - An Introduction to Engineering and Design”, Academic Press, 5th Ed., 2021.
Course Description	This course covers the following topics: Introduction to engineering disciplines and careers, Role of the engineer in society. Introduction to Engineering Design. Engineering as a Profession. This course aims to introduce the systematic engineering thinking, communication and teamwork dynamics in a design process, academic success skills such as time management, study techniques, working in teams, and study groups. Engineering approach to problem solving. Engineering design Steps – Defining the Problem – Generation of Alternative Concepts – Evaluation of Alternatives and Selection of a Concept – Design Defense – Modeling – Testing – Performance evaluation – Design Report.
Brief List of Topics to be Covered	
Course is prerequisite for	-