1. Course number and name
   ENGR 290-04: Engineering Project Management

2. Credits and contact hours
   1 Credit hour; 1 hr and 40 minutes class per week for seven weeks

3. Instructor’s or course coordinator’s name
   Instructor: Dr. Sikandar Khatri, Instructor
   Course coordinator: [coordinator name, title]

4. Text book, title, author, and year
   There is no single required textbook for this course but a number references are listed below.
   a. other supplemental materials
      3) Adaptive Software Development: a collaborative approach to managing complex systems, James Highsmith
      4) PM102 According to the Olde Curmudgeon, An Introduction to the Basic Concepts of Modern Project Management, Francis M. Webster Jr.

5. Specific course information
   a. brief description of the content of the course (catalog description)
      This course provides a quick introduction to various software tools and concepts associated with engineering project management. The aim of the course is to familiarize the student with some of the basic skills and knowledge that will help them to be productive participants in team-based engineering projects. In addition to lectures on fundamental concepts related to team-based projects, the course also introduces use of related software, such as PERT, CPM, Microsoft Project, etc., for estimating, scheduling, and resource allocation

   b. prerequisites or co-requisites
      ENGR 200 or ENGR 205; ENGR103 or CS 212

   c. indicate whether a required, elective, or selected elective course in the program
      Required for Mechanical Engineering

6. Specific goals for the course
   a. specific outcomes of instruction, ex. The student will be able to explain the significance of current research about a particular topic.
      • students will understand the basic management concepts and methods of team-based engineering projects
      • students will understand scheduling and estimating techniques as related to projects
• students will get a "hands-on" experience Defining, Designing and Presenting a Project Plan

b. explicitly indicate which of the student outcomes listed in Criterion 3 or any other outcomes are addressed by the course.
Course addresses ABET Student Outcome(s): a, e, f, g, h, k

7. Brief list of topics to be covered
• Project Management Introduction & Context
• Project Management Processes
• Project Initiation
• Project Planning
• Project Cost Management
• Project Execution
• Project Quality Management
• Project Human Resource Management
• Project Monitoring, controlling and closing
• Critical Path (CPM), Program Evaluation and Review Technique (PERT) and Microsoft Project