



Engineering Management and Project Management

Course Number	ENGR 480
Course Name	Engineering Management and Project Management
Credit Value (Breakdown of theory and lab credits)	4T+0L
Catalog Course Description	Student will study Photovoltaic effect in semiconductors; electrical and mechanical design of photovoltaic cells, panels, and systems; use of lenses and mirrors in PV systems; manufacturing methods of PV devices.
Student Learning Outcomes/Objectives /Competencies of the Course	<p>Engineering Project Management:</p> <ol style="list-style-type: none"> 1. Understand (a) elements and phases of project/program management;(b) people and technology issues of project/program management; (c) attributes of an effective project/program manager;(d) communications and documentation requirements for a technology based project/program; 2. Develop skill in: (a) minimizing risk in various aspects of project/program management; technology is a significant factor in affecting successful completion;(b) using tools to track progress in project/program management; 3. Each student will participate in the development of a project plan based on a technology objective. <p>Engineering Management:</p> <ol style="list-style-type: none"> 1. Develop skill in leading, managing and inspiring superior performance in technology organizations. 2. Familiarity with economic valuation of technologies relative to corporate goals 3. Ability to manage organizational budget, performance and morale; 4. Knowledge of terms and organizational performance principles will be determined by scheduled exams, quizzes and homework problems; 5. Skill in usage of organizational management tools will be determined by practical projects
College-Wide Student Learning Outcomes	<p>Communication</p> <p>Cultural Competence</p>

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