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Engineering Project Management in a Mechanical Engineering Curriculum

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Abstract: This paper seeks to present the findings of an effort to introduce the various concepts of engineering project management into an undergraduate mechanical engineering curriculum. There are three main facets to the course: engineering economic analysis, Quality control and project management. Each facet is important in its own right. Fundamental concepts are introduced through rigorous in class problem solving sessions. Student performance is assessed through regular quizzes and exams. Additionally, students complete and present a project based on concepts learned over the course of the semester.

Keywords: Mechanical Engineering, Project Management, Economics, Network Diagrams, Quality Control, Six Sigma