



Engineering and Technology Management

COURSE SYLLABUS

Course Number: E M 564

Course Name: Project Management

Instructor: William J. Gray

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Semester Credits: 3

Prerequisites: None

Course Description and Objectives:

The use of projects and project management continues to grow in our complex society. Project management differs from more traditional organizational management, because most projects are one-time, extremely focused efforts. Time, money, people, and other resources must be managed extremely well to achieve success and there is usually only one chance to do it right. This course will examine technical tools (CPM, PERT, cost and schedule control/EVMS, CCPM), new approaches to project management, behavioral issues, and considerations of organizational structure.

The objective of the course is to help students understand the strengths and pitfalls of project management. The ultimate goal is to improve students' ability to manage projects at all stages from initiation to closeout and turnover, and to effectively use the tools and principles of project management to lead, plan, monitor, and control projects of various types.

Course Topics:

- Project Management Fundamentals
- Project Management Growth: Concepts and Definitions
- Organizational Structures [used in Project Management]
- Organizing and Staffing the Project Office and Team
- Management Functions [in a Project Environment]
- Management Of Your Time And Stress
- Conflicts
- Special Topics [in Project Management]
- The Variables for Success
- Working With Executives
- Planning
- Network Scheduling Techniques
- Project Graphics
- Pricing and Estimating Chapter
- Cost Control
- Trade-Off Analysis in a Project Environment
- Risk Management
- Learning Curves
- Contract Management
- Quality Management
- Managing Crisis Projects

Grading:

Mid-Term Exam: 25%, Final Exam: 25%, Course Projects: 30%, Participation & Homework: 20%