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Department of Civil Engineering	
Project Management and Control (61582)	
Total Credits	**3**
major elective	
Prerequisites	P1 : Engineering Management (61472)

Course Contents

Introduce the characteristics and concepts of the construction industry, the facility delivery process, labor productivity, construction costs, scheduling, cost accounting, and emerging technologies relevant to the construction industry. Project organizations; the design and construction process; labor, material, and equipment utilization; cost estimation; construction pricing and contracting; construction planning; cost control, monitoring accounting; and management systems construction.

	Intended Learning Outcomes (ILO's)	Student Outcomes (SO's)	Contribution
1	1. Able to apply advanced techniques for construction project planning, scheduling, resource management &cost estimate	A	20 %
2	2. Track projects plans and control projects cost and time	A C	20 %
3	3. Prepare complete and realistic time schedules using available global specialized software.	J K	30 %
4	4. Using specialized projects management software Primavera Project Planner P6	J K	30 %

Textbook and/ or Refrences

Roy Pilcher, third edition, Principles of Construction Management. The instructor will provide class notes, technical papers, laboratory manual and other reading materials for the course

Assessment Criteria	Percent (%)
Mid. Term Exam	30 %
Projects	30 %
Final Exam	40 %

Course Plan

Week	Topic
1	Introduction to information technology
2	Time management application
3	Cost estimate application
4	Resources management application
5	Productivity Improvement
6	Project finance &S-Curve application
7	MIDTERM EXAM 1
8	Project monitoring Application
9	Progress reporting application
10	Time &cost control Application
11	Time &cost control application
12	Time &cost control application
13	MIDTERM EXAM 2
14	Real Case Project practice
15	Real Case Project practice
16	Final Exam