



Course Title	Construction Management and Engineering
Course Unit Code	CEE 310
Type of Course Unit	Compulsory
Level of Course Unit	1 st cycle
Year of Study	3 rd year
Semester when the Course Unit is Delivered	Fall
Number of ECTS Credits Allocated	5.0
Name of Lecturer(s)	S. Christodoulou
Learning Outcomes of the Course Unit	<p>Students should be able to:</p> <ol style="list-style-type: none">1. Understand the most-often used contracts and project delivery methods in the construction industry,2. Develop quantity takeoffs, estimates and bids,3. Analyze financial alternatives using engineering economy and project cash flows,4. Develop project networks and perform CPM calculations,5. Develop resource-loaded and cash-loaded construction schedules,6. Develop health and safety plans,7. Prepare and present a project execution plan (bid, cost estimate, financials, schedule, resource management, health and safety, etc.) for a case-study project
Prerequisites	There are no prerequisites for this course.
Co-requisites	There are no prerequisites for this course.
Course Contents	Selection, operational analysis, utilization and replacement of equipment for civil engineering works. Engineering economy. Project planning, scheduling and controlling. Budgeting, resource and cost allocation, cost control and time-cost tradeoff analysis of construction projects. CPM/PERT analysis. Health and safety measures during construction. Term project using specialized computer software for construction applications.
Required Reading	1. Construction Project Management, for Architects and Engineers, S. Christodoulou (Lecture Notes), 2013, 300pp.
Recommended Reading	N/A
Planned Learning Activities	Term Project, Case Studies and Assignments
Teaching Methods	Lectures (3 hours/week)
Assessment Methods and Criteria	Term project, final exam & presentation, midterm exam and homework assignments
Language of Instruction	Greek



University of Cyprus

Department of Civil and
Environmental Engineering

Work Placement(s)	N/A
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