

## Planning and Management of Large Scale Projects

1. **Course number and name:** 020PLGGS5 Planning and Management of Large Scale Projects
2. **Credits and contact hours:** 4 ECTS credits, 2x1.25 hours
3. **Name(s) of instructor(s) or course coordinator(s):** Farah HOMSI
4. **Instructional Materials:**
  - a. Conditions of Contract for Work of Civil Engineering Construction: Part I: General Conditions with forms of tender and agreement, Part II: Particular Conditions, 1992
  - b. Guide du CORPUS DES CONNAISSANCES EN MANAGEMENT DE PROJET, GUIDE PMBOK®, Sixième édition, Project Management Institute, 2017
  - c. Management de projet: Un référentiel de connaissances (AFNOR), Project Management Institute, January 26, 2001
  - d. Primavera 6 Manual
  - e. PLANNING AND CONTROL USING ORACLE® PRIMAVERA® P6, 2015 by Eastwood Harris
5. **Specific course information**
  - a. **Catalog description:** This course aims to introduce the students to the concepts of project management, the content of the contractual management documents, as well as the methodology for preparing a complete set of tender documents. Topics include: General introduction - Administrative management - Quality management - Cost management - Time management - Presentation and discussion of student projects - What is a project - What is planning a project - How to develop a project - Running the schedule - Target and progress - Allocation of resources and costs - Layouts and fitters.
  - b. **Prerequisites or co-requisites:** None
  - c. **Required:** Required course for Buildings and Engineering Management Specialty students.
6. **Educational objectives for the course**
  - a. **Specific outcomes of instruction:**

- Demonstrate an understanding of the methods and practices available as well as the pre-established documents for the administrative and contractual management (FIDIC, AIA, etc ...)
- Know about productivity and construction costs and the methods of identification of creeks and critical paths.
- Development of a construction project using Primavera software as a management tool (WBS, Activity Codes, Calendars, Tasks, Filters, Layouts, Resources, Cost, Manpower & Cost Histograms, Updating Schedules, Comparison to Target Schedules)

**b. PI addressed by the course:**

<b>PI</b>	1.1	1.2	2.1	4.2
<b>Covered</b>	yes	yes	yes	yes
<b>Assessed</b>				

**7. Brief list of topics to be covered:**

Chapter #	Title	Nb of sessions
1	Conditions of Contract Applicable to Civil Works Contracts	7
2	Project Management 2.1 – Introduction	1
	2.2 – The Phases of a Project and the life cycle of the project	1
	2.3 – Management of project deadlines	1
	2.4 – Project cost management	3
	2.5 – Human resources management	1
	2.6 – Project procurement management	2
3	Primavera	12
Total		28