

Project management

1. Course number and name: 020GPRCS5 Project management

2. Credits and contact hours: 2 credits, 1x1:15 contact hours

3. Names of instructors: Renalda SAMRA (EL) KHALIL

4. Instructional materials:

- References:
 - H. Kerzner, Project Management, A Systems Approach to Planning, Scheduling, and Controlling, 10th Edition, Wiley, 2009.
 - Cather et al., Business Skills for Engineers and Technologists, 1st Edition, Newnes, 2001.
 - Primavera 6 Manual
 - PLANNING AND CONTROL USING ORACLE® PRIMAVERA® P6, 2015 by Eastwood Harris

5. Specific course information

a. Catalog description:

Objective: Introduce the student to project management and inform him on the content of contractual management documents, and furthermore to a methodology for the preparation of a complete set of tender documents.

Content: General presentation of the course - 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 cost – Layouts and filters

b. Prerequisites: None

c. Required/Selected Elective/Open Elective: Required

6. Specific goals for the course

a. Specific outcomes of instruction:

Upon completion of this course, students will be able to:

- Recognize issues in a realistic project scenario.
- Demonstrate the use of appropriate network scheduling techniques.
- 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. PIs addressed by the course:

PI	1.1	2.1	1.2	4.2
Covered	x	x	x	x
Assessed	x	x	x	x

7. Brief list of topics to be covered:

- Management of human and material resources, organization of work sites, operations and purchases.
- Time management and methods for calculating progress, critical activities and identification of critical paths CPM and available software.
- Cost management including budgeting and costing methods, preparation of specifications and quantities, and cost control.
- Software Installation and Introduction
- Selection of Project and WBS development, Activity Codes development and Calendars creation
- Manpower, Quantities, and Cost Resources development
- Cost and Manpower Histograms