Project management

1. Course number and name: 020GPRCS5 Project management

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

3. Name of instructor: 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:

Definition of a project. Phasing. Milestone organization. Definition of roles of different actors (sponsor, contractor, implementation). Clarification of objectives. Project breakdown (products, activities, costs, responsibilities). Planning approach. Planning methods. Resource allocation. Joint cost allocation-control. Costs, deadlines, quality, task evaluation, before, during, after, lessons learned.

    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	1.2	2.1	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