

Course Syllabus

020PGCGS2 General Construction Procedures (1)

1. **Course number and name:** 020PGCGS2 General Construction Procedures (1)
2. **Credits and contact hours:** 2.5 credits , 1 x 2:30 course hours for 8 weeks and one site visit for 3:00 hours
3. **Instructor's or course coordinator's name:** André HAKIME
4. **Textbook and other supplemental material:**
 - a. Instructor's Class Notes
 - b. DTU (Document Technique Unifié)
5. **Specific course information**
 - a. **Catalog description:** Provide the necessary training to form engineers making them aware of the main problems related to the execution of building projects. Technical, financial and administrative analysis of the tender documents. Management of projects in progress. Specifications and techniques for the implementation of concrete works and finishes in buildings
 - b. **Prerequisites:** None
 - c. **Required/Elective/Selected Elective:** Required course for all Civil Engineering Students.
6. **Specific goals for the course**
 - a. **Specific outcomes of instruction:**
 - Organization and management of projects:
 - Trades involved in construction: roles, responsibilities and relationships.
 - Preliminary studies for the start-up of a construction site: Tender documents
 - Coordination between different trades
 - Planning and monitoring work progress
 - Mobilization of the site: General layout
 - The building site – Concrete works:
 - Hoisting equipment: Tower cranes and other hoisting equipment
 - (Installation and handling)
 - Accidents prevention at construction sites
 - Concrete plant: Different types of concrete plants (Installation and handling)
 - Concrete implementation and pumping
 - Steel workshop
 - Formworks station :Various types of formworks, Wall forms, Slab forms
 - Climbing and Sliding formworks
 - Design of the various formwork types
 - The building site – Finishes works:
 - Masonry works
 - Interior and exterior plaster works, doors and windows, tiling, etc...
 - Facades cladding, internal and external painting
 - Tanking and waterproofing of various types of terraces
 - Acceptable tolerances for various works

b. KPIs addressed by the course:

KPI	a2	e1	e3
Covered	x	x	x
Assessed			
Give Feedback			

7. Brief list of topics to be covered and approximate number of lectures:

- Organization and management of projects (5 hours)
- Concrete works (8 hours)
- Finishes works (7 hours)