

Faculty of Engineering & Technology

Construction Project Management

Information :

Course Code : SCM 351 **Level :** Undergraduate **Course Hours :** 3.00- Hours

Department : Department of Structural Engineering & Construction Management

Instructor Information :

| Title | Name | Office hours |
|--------------------|------------------------------------|--------------|
| Lecturer | HOSAM MOSTAFA MAHMOUD EID HEGAZY | 6 |
| Teaching Assistant | Ahmed Salah Rashad Ahmed Abdelhakk | 4 |
| Teaching Assistant | Mohamed Fathy Salem Mohamed | |

Area Of Study :

Upon successful completion of this course, the student should be able to:

- Understand the basic concepts and main principles
- Calculate the values of the essential terms

Regarding management of structural engineering project construction environment management services & construction approaches CPM method & productivity project control & safety application on civil engineering projects

Description :

Introduction to structure engineering project management, Introduction to the construction environment, Construction project phases, Selecting the special services for managing and executing the construction project, Construction projects organization, Construction management approaches, Introduction to CPM method, Labor productivity, Material management, Equipment optimum use, Project control, Constructability, Safety in construction, Application with emphasizing on civil engineering projects.

Course outcomes :

a. Knowledge and Understanding: :

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|-----|--|
| 1 - | List the main items of management of structural engineering project |
| 2 - | Describe the main concept of construction environment |
| 3 - | List the main items of management services & construction approaches |
| 4 - | Explain the principals of project control & safety |

b. Intellectual Skills: :

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|-----|---|
| 1 - | Analyze the system of management services & construction approaches |
| 2 - | Solve problems regarding CPM method & productivity |
| 3 - | Assess issues of project control & safety |

c. Professional and Practical Skills: :

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|-----|---|
| 1 - | Prepare technical reports for management services & construction approaches |
| 2 - | Draw neat details of CPM method & productivity |

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|--|--|
| 3 - | Prepare technical reports for project control & safety |
| 4 - | Demonstrate presentation regarding application on civil engineering projects |
| d.General and Transferable Skills : | |
| 1 - | Work in a team |

Course Topic And Contents :

| Topic | No. of hours | Lecture | Tutorial / Practical |
|---|--------------|---------|----------------------|
| management of structural engineering project | 4 | 3 | 1 |
| construction environment | 8 | 6 | 2 |
| management services & construction approaches | 12 | 9 | 3 |
| CPM method & productivity | 12 | 9 | 3 |
| project control & safety | 12 | 9 | 3 |
| application on civil engineering projects | 8 | 6 | 2 |
| Revision | 4 | 3 | 1 |

Teaching And Learning Methodologies :

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|-------------------|
| Interactive Lec. |
| Discussion |
| Problem Solving |
| Report / Present. |

Course Assessment :

| Methods of assessment | Relative weight % | Week No | Assess What |
|-----------------------|-------------------|---------|-------------|
| Final Exam | 40.00 | | |
| Mid- Exam I, II | 30.00 | | |
| Quizzes / Assig. | 15.00 | | |
| Report / Present. | 15.00 | | |

Course Notes :

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Recommended books :

- "Construction Management Fundamentals", Schexnayder, and Mayo, Mcgraw Hill, 2008 Additional References: - Handout notes on MOODLE

Periodicals :

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Web Sites :

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