

Faculty of Engineering & Technology
Applied Topics In Construction Engineering

Information :

Course Code : SCM 551 **Level :** Undergraduate **Course Hours :** 3.00- Hours

Department : Department of Structural Engineering & Construction Management

Instructor Information :

| Title | Name | Office hours |
|--------------------|--|--------------|
| Professor | Ibrahim Abdel Rashid Nosier Tony | 20 |
| Professor | Ibrahim Abdel Rashid Nosier Tony | 20 |
| Assistant Lecturer | Reham Milad Kamel Samaan | |
| Teaching Assistant | Ahmed Salah Rashad Ahmed Abdelhakk | |
| Teaching Assistant | Abdallah Awny abdel Salam Abo el Khair El megarbel | 4 |

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 construction contracts local laws FIDIC contracts bidding process clams

Description :

Using computer in project planning and cost estimate, Application on a real project and submitting a report at the end of the semester.

Course outcomes :

a.Knowledge and Understanding: :

| | |
|-----|---|
| 1 - | List the main items of construction contracts |
| 2 - | Describe the main concept of local laws |
| 3 - | Explain the principals of FIDIC contracts |
| 4 - | Define the main terms of bidding process |

b.Intellectual Skills: :

| | |
|-----|--|
| 1 - | Assess issues of construction contracts |
| 2 - | Solve problems regarding bidding process |
| 3 - | Assess issues of clams |

c.Professional and Practical Skills: :

| | |
|-----|---|
| 1 - | Prepare technical reports for local laws |
| 2 - | Prepare technical reports for FIDIC contracts |
| 3 - | Prepare technical reports for clams |

d.General and Transferable Skills: :

1 - Work in a team

Course Topic And Contents :

| Topic | No. of hours | Lecture | Tutorial / Practical |
|------------------------|--------------|---------|----------------------|
| Construction contracts | 12 | 9 | 3 |
| Local laws | 12 | 9 | 3 |
| FIDIC contracts | 12 | 9 | 3 |
| Bidding process | 12 | 9 | 3 |
| Clams | 8 | 6 | 2 |
| Revision | 4 | 3 | 1 |

Teaching And Learning Methodologies :

Interactive Lec.
Discussion
Problem Solving
Report / Present.

Course Assessment :

| Methods of assessment | Relative weight % | Week No | Assess What |
|-----------------------|-------------------|---------|-------------|
| Final Exam | 40.00 | | |
| Mid-term Exam 1 | 15.00 | | |
| Mid-term Exam 2 | 15.00 | | |
| Quizzes / Assignments | 15.00 | | |
| Report / Presentation | 15.00 | | |

Course Notes :

Student Lecture Notes

Recommended books :

"Construction Management Jump Start" 2nd edition, Jacson, Barbara J., 2010