

**Faculty of Engineering & Technology**

**Civil Engineering Drawing 2**

**Information :**

**Course Code :** SCM 232

**Level :** Undergraduate

**Course Hours :** 2.00- Hours

**Department :** Department of Structural Engineering & Construction Management

**Instructor Information :**

| Title              | Name                                       | Office hours |
|--------------------|--|--------------|
| Lecturer           | Dina Yehia Zakaria Ewais                   |              |
| Lecturer           | Ahmed Amr Kadry Ahmed Shaheen              |              |
| Assistant Lecturer | MOHAMMED TAHER ABDELHAMID MOHAMMED YOUSSEF | 4            |
| Teaching Assistant | Ahmed Taher Abdelhamed Mohamed Yousef      |              |

**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 steel trusses & Connections beam-column connection Fixed & hinged base details of RC slabs details of RC beams & columns details of foundation

**Description :**

Drawing of steel structures: views, sections, details, reverts, welding, hatching, applications on drawing steel joints and members, Drawing of reinforced concrete structures: views and cross sections, concrete dimensions, reinforcement details, Advanced applications on drawing of civil engineering projects.

**Course outcomes :**

**a.Knowledge and Understanding: :**

|     |  |
|-----|--|
| 1 - | List the main items of steel trusses & Connections         |
| 2 - | Describe the main concept of details of RC slabs           |
| 3 - | Describe the main concept of details of RC beams & columns |
| 4 - | Describe the main concept of details of foundation         |

**b.Intellectual Skills: :**

|     |   |
|-----|---|
| 1 - | Assess issues of beam-column connection |
| 2 - | Assess issues of Fixed & hinged base    |
| 3 - | Assess issues of details of RC slabs    |

**c.Professional and Practical Skills: :**

|     |  |
|-----|--|
| 1 - | Draw neat details of steel trusses & Connections |
| 2 - | Draw neat details of beam-column connection      |
| 3 - | Draw neat details of Fixed & hinged base         |

|   |  |
|---|--|
| 4 -   | Draw neat details of details of RC slabs           |
| 5 -   | Draw neat details of details of RC beams & columns |
| 6 -   | Draw neat details of details of foundation         |
| <b>d.General and Transferable Skills: :</b> |  |
| 1 -   | Manage time, and resources effectively             |

**Course Topic And Contents :**

| Topic                         | No. of hours | Lecture | Tutorial / Practical |
|-------------------------------|--------------|---------|----------------------|
| steel trusses & Connections   | 12           | 0       | 12                   |
| beam-column connection        | 8            | 0       | 8                    |
| Fixed & hinged base           | 8            | 0       | 8                    |
| details of RC slabs           | 12           | 0       | 12                   |
| details of RC beams & columns | 8            | 0       | 8                    |
| details of foundation         | 8            | 0       | 8                    |
| Revision                      | 4            | 0       | 4                    |

**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- Exam I, II       | 30.00             |         |             |
| Quizzes / Assig.      | 15.00             |         |             |
| Report / Present      | 15.00             |         |             |

**Course Notes :**

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**Recommended books :**

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**Periodicals :**

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**Web Sites :**

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