# Course Specifications

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| **Program(s) on which this course is given:** | Electronics & Electrical Communications Engineering |
| **Major or Minor element of programs:** | Major |
| **Department offering the program:** | Electronics & Electrical Communications Engineering |
| **Department offering the course:** | Irrigation and Hydraulics |
| **Academic year / Level:** | First |
| **Date of original/modified specification approval:** | 2003/ |
| **Semester of course offering:** | First |

## A- Basic Information

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| **1.a. Title:** | Civil Engineering | | | **1.b. Code:** | CVE 117 | | | |
| **2. Units/Credit hours per week:** | 2.a. Lectures | 4 | 2.b. Tutorial | 2 | 2.c. Practical | 0 | 2.d. Total | 6 |

## B- Professional Information

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| **1. Overall Aims of the Course:** | To understand the basic issues of civil engineering as a whole, then concentrate on the structural aspects of buildings. |
| **2. Intended Learning Outcomes of Course (ILOs):** | **a) Knowledge and Understanding** |
| | 1. Explain the types of buildings (1.1).<br>2. Explain the fundamentals of beam theory (1.1).<br>3. Explain the principles of structural design (1.1). |
| | **b) Intellectual Skills** |
| | 1. Solve problems (3.7).<br>2. Select appropriate design decisions (3.7). |
| | **c) Professional and Practical Skills** |
| | 1. Read and interpret civil engineering drawings (2.5).<br>2. Comprehend architectural and structural requirements (2.5). |
| | **d) General and Transferable Skills** |
| | 1. Anticipate deficiencies in buildings (4.9)<br>2. Design criteria in civil engineering (4.4) |

**3. Contents**

| Topic | Total hours | Lectures | Tutorial/ Practical |
|---|---|---|---|
| Introduction to civil engineering | 4 | 4 | 0 |
| Types of Foundations | 8 | 8 | 0 |
| Methods of Insulation | 12 | 8 | 4 |
| Types of Finishes | 8 | 6 | 2 |
| Structure Analysis | 22 | 12 | 10 |
| Structure Mechanics | 14 | 8 | 6 |
| Design Concepts | 10 | 6 | 4 |

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| **4. Teaching and Learning Methods** | Lectures (Y) | Practical Training/ Laboratory (N) | Seminar/Workshop (N) |

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|---|---|---|---|
| | Class Activity (N) | Case Study (N) | Projects (N) |
| | E-learning (N) | Assignments /Homework (Y) | Other: |

| **5. Student Assessment Methods** | |
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| **5.a. Method** | **To assess (with reference to the ILOs)** |
| • Quizzes | a1, a2, a3, b1, b2, c1, c2, d1, d2 |
| • Midterm | a1, a2, a3, b1, b2, c1, c2, d1, d2 |
| • Final | a1, a2, a3, b1, b2, c1, c2, d1, d2 |
| **5.b. Assessment Schedule** | **Week** |
| • Quizzes | 3, 6, 9, 12 |
| • Midterm | 7 |
| • Final | 15 |
| **5.c. Weighting of Assessments** | |
| • Quizzes | 13 % |
| • Midterm | 20 % |
| • Final | 67 % |
| • Total | 100 % |

| **6. List of References** |
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| 6.a. Course Notes: Lecturer notes. |
| 6.b. Essential Books (Text Books): N/A |
| 6.c. Recommended Books: N/A |
| 6.d. Periodicals, Web Sites, … etc: N/A. |
| **7. Facilities Required for Teaching and Learning** |
| It is anticipated that this course in the future is best given through on screen photos and videos to transfer more information to the students in an easy and effective method. |

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| **Course Coordinator:** | Dr. Abdelfattah Abdelmohsen |
| **Head of Department:** | Prof. Dr. Mohammad Al Said Eissa |
| **Date:** | 2010-2011 |