

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

| Module Information | | | |
|------------------------------------|--|-------------------------------|--|
| معلومات المادة الدراسية | | | |
| Module Title | Building construction method and drawings | | Module Delivery |
| Module Type | Core | | <input type="checkbox"/> Theory <input type="checkbox"/> Lecture <input type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar |
| Module Code | CE228 | | |
| ECTS Credits | 8 | | |
| SWL (hr/sem) | 200 | | |
| Module Level | 2 | Semester of Delivery | 1 |
| Administering Department | Type Dept. Code | College | Type College Code |
| Module Leader | Khaled Taher | e-mail | |
| Module Leader's Acad. Title | | Module Leader's Qualification | |
| Module Tutor | | e-mail | E-mail |
| Peer Reviewer Name | Name | e-mail | E-mail |
| Scientific Committee Approval Date | 01/09/2024 | Version Number | 1.0 |

| Relation with other Modules | | | |
|-----------------------------------|------|----------|--|
| العلاقة مع المواد الدراسية الأخرى | | | |
| Prerequisite module | None | Semester | |
| Co-requisites module | None | Semester | |

| Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية | |
|---|--|
| Module Aims أهداف المادة الدراسية | <ol style="list-style-type: none"> 1. Understanding the types of construction systems. 2. The steps of starting and completing construction projects. 3. Specifications and use of various construction equipment. 4. The requirements and methods of implementation of projects. 5. The general requirements and specifications of various construction works. |
| Module Learning Outcomes مخرجات التعلم للمادة الدراسية | <ol style="list-style-type: none"> 1. The ability to distinguish the type of construction system. 2. Select the appropriate procedure to perform certain construction work. 3. Select the most suitable equipment. 4. Select the type of foundation. 5. The knowledge required to distinguish the works that met the specifications. |
| Indicative Contents المحتويات الإرشادية | <ol style="list-style-type: none"> 1. Types and development of buildings. 2. Earthworks types and methods of implementation. 3. Dewatering methods. 4. Types and properties of foundations. 5. Construction of walls 6. Finishing 7. Concrete works 8. Joints types and methods of installation. |

| Learning and Teaching Strategies استراتيجيات التعلم والتعليم | |
|--|---|
| Strategies | <ol style="list-style-type: none"> 1. Encouraging students to participate in presenting opinions and ideas relating construction. 2. Letting the students to select the right choice to perform certain construction work. 3. Testing students' understanding by inviting them to participate by discovering the errors, mistakes, and disadvantages of the method of implementing a certain step within a construction project and suggesting the appropriate method. |

Student Workload (SWL)

| الحمل الدراسي للطالب محسوب لـ 15 اسبوعا | | | |
|--|-----|---|------|
| Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل | 114 | Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا | 8 |
| Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل | 86 | Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا | 5.73 |
| Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل | 200 | | |

| Module Evaluation | | | | | |
|-----------------------|-----------------|-------------|------------------|----------|---------------------------|
| تقييم المادة الدراسية | | | | | |
| | | Time/Number | Weight (Marks) | Week Due | Relevant Learning Outcome |
| Formative assessment | Quizzes | 2 | 10% (10) | | |
| | Assignments | 2 | 10% (10) | | |
| | Projects / Lab. | 1 | 10% (10) | | |
| | Report | 1 | 10% (10) | | |
| Summative assessment | Midterm Exam | 2 hr | 10% (10) | | |
| | Final Exam | 2hr | 50% (50) | 16 | All |
| Total assessment | | | 100% (100 Marks) | | |

| Delivery Plan (Weekly Syllabus) | |
|---------------------------------|---|
| المنهاج الاسبوعي النظري | |
| | Material Covered |
| Week 1 | Introduction on building and construction projects |
| Week 2 | Earthworks and excavation using hand tools and the methods of supporting them. |
| Week 3 | Excavation with mechanical equipment, dewatering, earth filling, and compaction. |
| Week 4 | Shallow footings types and requirements. |
| Week 5 | Raft, buoyancy, and pier foundations and the settlement and vibration of foundations. |
| Week 6 | Pile foundations types and methods of installation. |
| Week 7 | Concrete works details requirements and equipment. |
| Week 8 | Masonry works units' types and requirements. |
| Week 9 | Requirements and design of brick walls. |
| Week 10 | Frameworks and scaffolding |

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| Week 11 | Water and dump proofing |
| Week 12 | Joints in buildings |
| Week 13 | Means of transition between levels. |
| Week 14 | Beams, columns, and floor systems. |
| Week 15 | Finishing works. |
| Week 16 | Preparatory week before the final Exam |

| Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي للمختبر | |
|---|------------------|
| | Material Covered |
| Week 1 | |
| Week 2 | |
| Week 3 | |
| Week 4 | |
| Week 5 | |
| Week 6 | |
| Week 7 | |

| Learning and Teaching Resources مصادر التعلم والتدريس | | |
|---|---|---------------------------|
| | Text | Available in the Library? |
| Required Texts | Zuheir Sako and Artin Levon "Building construction (in Arabic)" | Yes |
| Recommended Texts | 1. Edward Allen and Joseph Iano "Fundamentals of Building Construction Materials and Methods" 2. T.D. Ahuja and G.S. Birdi "CIVIL ENGINEERING building construction" 2.PURUSHOTHAMA RA J "Building Construction Materials and Techniques" | No |
| Websites | | |

Grading Scheme

مخطط الدرجات

| Group | Grade | التقدير | Marks (%) | Definition |
|-------------------------------------|-------------------------|--------------------|-----------|---------------------------------------|
| Success Group (50 - 100) | A - Excellent | امتاز | 90 - 100 | Outstanding Performance |
| | B - Very Good | جد جدا | 80 - 89 | Above average with some errors |
| | C - Good | جد | 70 - 79 | Sound work with notable errors |
| | D - Satisfactory | متوسط | 60 - 69 | Fair but with major shortcomings |
| | E - Sufficient | مقبول | 50 - 59 | Work meets minimum criteria |
| Fail Group (0 - 49) | FX – Fail | راسب (قد المعالجة) | (45-49) | More work required but credit awarded |
| | F – Fail | راسب | (0-44) | Considerable amount of work required |
| | | | | |

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.