| Module Information<br>معلومات المادة الدراسية | | | | | |
|---|---|---|---|---|---|
| **Module Title** | **Building Constructions** | | | **Module Delivery** | |
| **Module Type** | **Core** | | | ☒ **Theory**<br>☒ **Lecture**<br>☐ **Lab**<br>☒ **Tutorial**<br>☐ **Practical**<br>☐ **Seminar** | |
| **Module Code** | UOMU023041 | | | | |
| **ECTS Credits** | **6** | | | | |
| **SWL (hr/sem)** | 180 | | | | |
| **Module Level** | | UGII | **Semester of Delivery** | | 4 |
| **Administering Department** | | **Technical building and Construction** | **College** | **Al-Mustaqbal university** | |
| **Module Leader** | Nora Fawzi Abdah | | **e-mail** | Nora.fawzi.abdah@uomus.edu.iq | |
| **Module Leader's Acad. Title** | | Assis. lecturer | **Module Leader's Qualification** | | |
| **Module Tutor** | | | **e-mail** | | |
| **Peer Reviewer Name** | | | **e-mail** | | |
| **Scientific Committee Approval Date** | | | **Version Number** | 1.0 | |

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

| Module Aims, Learning Outcomes and Indicative Contents<br>أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية | |
|---|---|
| **Module Aims** | 1. In this subject student will learn soil investigation and soil bearing capacity, foundation types, building of wall by many types of materials, types of beam and columns, isolation location and materials, finishing works.<br>2. To prepare them to carry out experimental investigation and analysis at later<br>stages of graduation. |
| **Module Learning Outcomes** | The student will able to explain basic concepts related building.<br>1. The student explains type of buildings and their usage aims.<br>2. The student explains construction stages.<br>3. The student explains functions of building elements. |

| | |
|---|---|
| | 4. The student explains types and properties of foundations .<br>5. The student prepares foundation plans of buildings.<br>6. The student expresses properties of different structures walls.<br>7. The student expresses properties of different structures floors.<br>8. The student draws details of foundation, walls and floors.<br>9. The student explains properties of mass buildings.<br>10. The student defines building elements of mass building.<br>11. The student explains principles of mass building and uses them in project drawings.<br>12. The student defines isolation materials using for heat, water, noise and fire insulation and explains their usage place. |
| **Indicative Contents** | Site investigation and methods. Bearing capacity of soil and filed test. [ 2 hrs.]<br>Excavation and supporting. [ 2 hrs.]<br>Types of Foundation, excavation .reinforcing and concrete casting, dry of site ,Pile foundation, sheet piles and capping. [ 2 hrs.]<br>Masonry stone work ,stone building,under ground and above. [ 2 hrs.]<br>Brick and block works ,British and Flemish arrangements. [ 2 hrs.]<br>Thermal insulation materials ,types and specifications and component. [ 2 hrs.]<br>Concrete Forms, Timber forms , bracing for roofs and columns. [ 2 hrs.]<br>Scaffolding types ,components. [ 2 hrs.]<br>Columns classification and shape of failures. [ 2 hrs.]<br>Beams types steel and timber,pre-cast, pre-stress. [ 2 hrs.]<br>Damp proofing materials ,application and treatment of roof ,basement, wall. [ 2 hrs.]<br>Floor and Finishing. [ 2 hrs.]<br>Inner wall finishing by Gypsum ,paints ..etc. External wall finishing materials ;cement, stone, painting. [ 2 hrs.]<br>Doors and windows and upstairs [ 2 hrs.]<br>Type of maintenances, type of failure in building and treatment failures of building[ 2 hrs.]. |

| **Learning and Teaching Strategies**<br>استراتيجيات التعلم والتعليم | |
|---|---|
| **Strategies** | Assessment is based on<br>1. Exams.<br>2. Student feedback. |

| Student Workload (SWL)<br>الحمل الدراسي للطالب | | | |
|---|---|---|---|
| **Structured SWL (h/sem)** | 116 | **Structured SWL (h/w)** | 8 |
| **Unstructured SWL (h/sem)** | 64 | **Unstructured SWL (h/w)** | 4 |
| **Total SWL (h/sem)** | 180 | | |

| Module Evaluation<br>تقييم المادة الدراسية | | | | | |
|---|---|---|---|---|---|
| | | **Time/Number** | **Weight (Marks)** | **Week Due** | **Relevant Learning Outcome** |
| **Formative assessment** | **Quizzes** | 4 | 20% (20) | 3,5,6,10 | |
| | **Assignments** | 2 | 10% (10) | 7, 8 | |
| | **Seminar** | 1 | 10% (10) | 11 | |
| **Summative assessment** | **Midterm Exam** | 2 hr | 10% (10) | 12 | |
| | **Final Exam** | 3hr | 50% (50) | 16 | |
| **Total assessment** | | | 100% (100 Marks) | | |

| Delivery Plan (Weekly Syllabus)<br>المنهاج الاسبوعي النظري محتوى كل اسبوع يجب ان يغطي الوقت المحدد | |
|---|---|
| | **Material Covered** |
| **Week 1** | Site investigation and methods. Bearing capacity of soil and filed test. Excavation and supporting. |
| **Week 2** | Types of Foundation, excavation .reinforcing and concrete casting, dry of site |
| **Week 3** | ,Pile foundation, sheet piles and capping |
| **Week 4** | Masonry stone work ,stone building,under ground and above |
| **Week 5** | Brick and block works ,British and Flemish arrangements |
| **Week 6** | Thermal insulation materials ,types and specifications and component |
| **Week 7** | Concrete Forms, Timber forms , bracing for roofs and columns |
| **Week 8** | Scaffolding types ,components |
| **Week 9** | Columns classification and shape of failures |
| **Week 10** | Beams types steel and timber,pre-cast, pre-stress |

| | |
|---|---|
| **Week 11** | Damp proofing materials ,application and treatment of roof ,basement, wall. |
| **Week 12** | Floor and Finishing |
| **Week 13** | Inner wall finishing by Gypsum ,paints ..etc.External wall finishing materials ;cement,stone,painting. |
| **Week 14** | Doors and windows and upstairs |
| **Week 15** | Type of maintenances, type of failure in building and treatment failures of building |

## Learning and Teaching Resources

مصادر التعلم والتدريس

| | Text | Available in the Library? |
|---|---|---|
| **Required Texts** | 1. زهير زاكو/انشاء المباني<br>2. Handbook of building construction 2006<br>3. Internet s references | |
| **Recommended Texts** | | |
| **Websites** | | |

## Scheme Grading

مخطط الدرجات

| Group | Grade | التقدير | Marks (%) | Definition |
|---|---|---|---|---|
| **Success Group (50 - 100)** | **A** - Excellent | امتياز | 90 - 100 | Outstanding Performance |
| | **B** - Very Good | جيد جدا | 80 - 89 | Above average with some errors |
| | **C** - Good | جيد | 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 (قيد 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.