

## نموذج وصف المقرر

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|--|---|
| 1. اسم المقرر  |   |
| انشاء مباني  |   |
| 2. رمز المقرر  |   |
| 3. الفصل / السنة                                     |   |
| فصلي/2023-2024                                       |   |
| 4. تاريخ إعداد هذا الوصف                             |   |
| 2024/4/29  |   |
| 5. أشكال الحضور المتاحة                              |   |
| 6. عدد الساعات الدراسية (الكلي)/ عدد الوحدات (الكلي) |   |
| 60   |   |
| 7. اسم مسؤول المقرر الدراسي ( إذا أكثر من اسم يذكر)  |   |
| الاسم: محمد رحمة شريف الغريب<br>الأيمل :             |   |
| 8. اهداف المقرر                                      |   |
| اهداف المادة الدراسية                                | التعرف والفهم على كيفية اعمال ومفاهيم المواد الأثنائية وكيفية استخدامها في انشا المباني واكتساب القدرة على تطبيقها من خلال استعمالاتها في الاعمال الانشائية.  |
| 9. استراتيجيات التعليم والتعلم                       |   |
| الاستراتيجية   | 1. فحوصات الموقع وطرقها، الحفريات والدفن للموقع الأثنائي، انواع الأساسات ،البناء بالطابوق الطيني او الخرساني،دراسة العزل الحراري والصوتي،القوالب بانواعها المستعملة في صب الخرسانة المسلحة باشكالها،التسطيح للمباني،اعمال الانهاء،معرفة المواد المانعة للرطوبة وغيرها من اعمال البناء.<br>2. طرائق التعليم والتعلم<br>• PDF<br>• Video<br>• الدوام الحضوري للطلبة |
| 10. بنية المقرر                                      |   |

| طريقة التقييم | طريقة التعلم | اسم الوحدة او الموضوع   | مخرجات التعلم المطلوبة                | الساعات | الأسبوع |
|---------------|--------------|---|---------------------------------------|---------|---------|
| Quiz          | حضري         | Site investigation, phases of site and soil investigation.  | حضور الى<br>الطلبة القاعة<br>الدراسية | 2       |         |
| =             | =            | Methods of soil investigation, open-pit, boring auger, standard and cone test methods.  | =                                     | 2       | 2       |
| =             | =            | Bearing capacity, calculation and determinatio filed and laboratory, increasing of bearing capa and its relation with foundation design .                                   | =                                     | =       | 3       |
| =             | =            | Excavation and filling work , cut and fill , sho system , angle of repose ,failure of embankme layers of filling  | =                                     | =       | 4       |
| =             | =            | Types of foundations , excavation , shoring sys , reinforcing and concrete casting , drying of work . Pile foundations ,bored and driven pil sheet piles , capping of piles | =                                     | =       | 5       |
| =             | =            | Pile foundations ,bored and driven piles , sheet piles , capping of piles.  | =                                     | =       | 6       |
| =             | =            | Masonry stone work , stone building types specifications , building under ground level , ab ground level , preparation of   | =                                     | =       | 7       |
| =             | =            | Brick and block works ,British and Flemish arrangements , procedure to construct walls, connections between old and new walls .   | =                                     | =       | 8       |
| =             | =            | Hollow cavity walls , their specifications and components , reinforced walls  | =                                     | =       | 9       |

|   |   |  |   |   |           |
|---|---|--|---|---|-----------|
| = | = | Thermal insulation materials , specification types ,thermal transmittance factor ,resistance concept . | = | = | <b>10</b> |
| = | = | <b>Acoustical insulation and fire resistance building</b>  | = | = | <b>11</b> |

|   |   |  |   |   |    |
|---|---|--|---|---|----|
| = | = | Concrete Forms, timber forms (specifications and components), bracing for roofs and columns.               | = | = | 2  |
| = | = | Slip and travel forms, components and operation  | = | = | 3  |
| = | = | Scaffolding, types, components, uses .   | = | = | 4  |
| = | = | Concrete Forms, timber forms (specifications and components), bracing for roofs and columns.               | = | = | 5  |
| = | = | Columns classification , reinforcement , shape of their failures ,spiral reinforcement .                   | = | = | 6  |
| = | = | Beams ,types ,timber ,steel , and concrete pre-cast pre- stress beams.                                     | = | = | 7  |
| = | = | Floors and roofs , timber , jack arching   | = | = | 8  |
| = | = | Concrete floors and roofs , one way , two way ,and ribbed slabs , composite , cellular , arch shell roofs. | = | = | 9  |
| = | = | Lift slab system and space frame roofing.  | = | = | 20 |
| = | = | Damp proofing materials , application and treatment of roofs , basement and walls .                        | = | = | 21 |
| = | = | Floor finishing , tiles and ceramics   | = | = | 22 |
| = | = | Inner wall finishing by Gypsum , paints , Gypsum board.  | = | = | 23 |
| = | = | External wall finishing by cement mortars , st tiles and painting.   | = | = | 24 |

### 11. تقييم المقرر

توزيع الدرجة من 100 على وفق المهام المكلف بها الطالب مثل التحضير اليومي والامتحانات اليومية والشفوية والشهرية والتحريرية والتقارير .... الخ

### 12. مصادر التعلم والتدريس

الكتب المقررة المطلوبة ( المنهجية أن وجدت )  
 ارتين ليفين، زهير ساكه،، انشاء مباني ، الطبعة الاولى، جامعة بغداد كلية الهندسة قسم الهندسة المدنية، 1983

|  |   |
|--|---|
|  | المراجع الرئيسية ( المصادر )  |
|  | الكتب والم ارجع الساندة التي يوصى بها (المجلات العممية ،التقارير ) .... |
|  | الم ارجع الإلكترونية ، مواقع الانترنت                                   |

## Course Description Form

|                                    |  |
|------------------------------------|--|
| 13.                                | Course Name:   |
| Building Construction              |  |
| 14.                                | Course Code:   |
|                                    |  |
| 15.                                | Semester / Year:   |
| 2024-2023                          |  |
| 16.                                | Description Preparation Date:  |
|                                    |  |
| 17.                                | Available Attendance Forms:  |
| 2024/4/29                          |  |
| 18.                                | Number of Credit Hours (Total) / Number of Units (Total)   |
| Number of Credit Hours (Total) /60 |  |
| 19.                                | Course administrator's name (mention all, if more than one name)   |
| Name: Mohamad Rahma    Email:      |  |
| 20.                                | Course Objectives  |
| Course Objectives                  | Identify and understand how construction materials work and concepts, how to use them in constructing buildings, and gain the ability to apply them through their uses in construction work. |
| 21.                                | Teaching and Learning Strategies   |

**Strategy**

investigations and methods, excavations and burials for the construction site, types of foundations, building with clay or

concrete bricks, study of thermal and sound insulation, molds of all kinds used in pouring all kinds of reinforced concrete, attening of buildings, finishing work, knowledge of moisture-preventing materials, and other construction works

## 22. Course Structure

| Week | Hours | Required Learning Outcomes   | Unit or subject name   | Learning method | Evaluation method |
|------|-------|--|--|-----------------|-------------------|
| 2    |       | The student come to the classroom in addition to the PDF to benefit from in understanding and absorb the materia | Site investigation, phases of site and soil investigation. S   | In presence     | quiz              |
| =    | =     | =  | Methods of soil investigation, open-pit, boring and auger, standard and cone test methods.   | =               | =                 |
| =    | =     | =  | Bearing capacity, calculation and determination in filed and laboratory, increasing of bearing capacity and its relation with foundation design .                                  | =               | =                 |
| =    | =     | =  | Excavation and filling work , cut and fill , shoring system , angle of repose ,failure o embankment , layers of filling  | =               | =                 |
| =    | =     | =  | Types of foundations , excavation , shorin system , reinforcing and concrete casting drying of site work . Pile foundations ,bor and driven piles , sheet piles , capping of piles | =               | =                 |

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 5 | = | = | Pile foundations ,bored and driven piles , sheet piles , capping of piles.  | = | = |
| 7 | = | = | Masonry stone work , stone building type and specifications , building under ground level , above ground level , preparation of | = | = |
| 3 | = | = | Brick and block works ,British and Flemish arrangements , procedure to construct walls, connections between old and new walls . | = | = |
| 9 | = | = | Hollow cavity walls , their specifications and components , reinforced walls  | = | = |
| 0 | = | = | Thermal insulation materials , specificatio and types ,thermal transmittance factor ,resistance concept .                       | = | = |
| 1 | = | = | <b>Acoustical insulation and fire resistance for building</b>   | = | = |
| 2 | = | = | Site investigation, phases of site and soil investigation.  | = | = |
| 3 | = | = | <b>Concrete Forms, timber forms (specification and components), bracing for roofs and columns.</b>                              | = | = |
| 4 | = | = | <b>Slip and travel forms, components and operation</b>  | = | = |
| 5 | = | = | <b>Scaffolding, types, components, use</b>  | = | = |
| 5 | = | = | Columns classification , reinforcementshape of their failures ,spiral reinforcement .   | = | = |
| 7 | = | = | Beams ,types ,timber ,steel , and concrete beams pre-cast pre- stress beams.  | = | = |
| 3 | = | = | Floors and roofs , timber , jack arching  | = | = |
| 9 | = | = | Concrete floors and roofs , one way , two way ,and ribbed slabs , composite , cellular , arch and shell roofs.                  | = | = |
| 0 | = | = | Lift slab system and space frame roofing  | = | = |
| 1 | = | = | <b>Damp proofing materials , application and treatment of roofs , basement and</b>  | = | = |



|  |   |   |  |   |   |   |
|--|---|---|--|---|---|---|
|  |   |   | <b>walls .</b>   |   |   |   |
|  | = | = | Floor finishing , tiles and ceramics                                   | = | = | 2 |
|  | = | = | Inner wall finishing by Gypsum ,<br>paints ,and Gypsum board.          | = | = | 3 |
|  | = | = | External wall finishing by cement morta<br>, stone tiles and painting. | = | = | 4 |
|  |   |   |  |   |   | 5 |

### 23. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

### 24. Learning and Teaching Resources

|  |  |
|--|--|
| Required textbooks (curricular books, if any)                      | Ertin Levhen, Zuhair Sakah, Building Construction, first edition, University of Baghdad, College of Engineering, .0091Department of Civil Engineering, |
| Main references (sources)  |  |
| Recommended books and references (scientific journals, reports...) |  |
| Electronic References, Websites                                    |  |