



Philadelphia University
Faculty of Engineering
Department of Architecture
First semester, 2018 -2019

<u>Course Syllabus</u>	
Course Title: Building Maintenance	Course code: 660517
Course Level: 5	Course prerequisite (s) and/or corequisite (s):
Lecture Time:	Credit hours: 3

<u>Academic Staff Specifics</u>				
Name	Rank	Office Number and Location	Office Hours	E-mail Address
Osameh kassawneh	Assistant prof	61416		okassawneh@yahoo.com

Course module description:

- Provide the participants with methods of supervision and inspection of buildings and the possibility of avoiding defects and investigate the possible causes of defects and how to follow the exact scientific method in the inspection to obtain the necessary information for good control on the status of buildings and to arrive at an assessment of the situation in origin accurately and the validity of the purpose for which it was created.
- Enable technicians to use modern methods in inspecting buildings, facilities.
- Ability to analyze and correct on-site implementation of approved drawings.
- Ability to control and tighten quality in the implementation of buildings according to systems and decisions.

Course module objectives:

This program is designed specifically for building supervisors, building inspectors, those responsible for this work and those who are interested in adequate knowledge of methods and methods of supervision and inspection of buildings and how to inspect them and write reports.

Course/ module components

- Supervision and inspection procedures according to the type of building according to the engineering plans.
- Soil and foundation inspection and identification of defects.
- Supervision and sampling of the type of materials used.
- Inspection by type of connections.
- Supervising the building system of the construction .
- Review in detail for design errors or lack .
- Writing reports and test results.
- Causes of faults and breakdown of facilities:
- Case study

Teaching methods:

Lectures, study projects, exercise in the studio, practical work, and slides.

Every student is obliged to draw assigned details from the outline structure, as individual method.

Learning outcomes:

- Knowledge and understanding

Students will develop a facility in use of building materials and maintenance systems to achieve architectural objectives based on a thorough understanding of their characteristics and properties, constructional principles, detailed design consideration, and performance in use.

- Cognitive skills (thinking and analysis).

Cognitive senses using deferent techniques. Also students will be able to express their ideas in building maintenance and construction.

- Communication skills (personal and academic).

Architectural students will be able to communicate, read, and use resources to develop their cognitive senses in architecture and environment.

- Practical and subject specific skills (Transferable Skills).

The course will train architectural students and qualify them in building construction principles (structures, materials, graphic conventions, technical standards of design).

Course Evaluation:

<u>Allocation of Marks</u>	
1- <i>Assessment Instruments</i>	<i>Marks</i>
First Exam	20%
Second Exam	20%
Exercises tests & reports	20%
Final Exam	%40
Total	100%

Documentation and academic honesty

- Students are allowed to practice on free hand sketching and testing and visiting sites and books for training purposes copying is not allowed.

Course/module academic calendar

Sunday Tuesday, Thursday (10:00 -11:00),

Attendance policy:

Absence from lectures and/or tutorials shall not exceed 15%. Students who exceed the 15% limit without a medical or emergency excuse acceptable to and approved by the Dean of the relevant college/faculty shall not be allowed to take the final examination and shall receive a mark of zero for the course. If the excuse is approved by the Dean, the student shall be considered to have withdrawn from the course.

Module references

المصادر والمراجع:

- ١- د. حبيب زين العايدين. تقنية صناعات الخرسانة، ١٩٨٧.
- ٢- د. عبد الله محمد العويد. دراسة تقييمية للإسكان الحضري، ١٩٩٢.
- ٣- ملخص أبحاث الندوة العالمية لتصديعات المباني بالعالم العربي، ١٩٩٢.
- ٤- مجلة المهندس الأردني.
- ٥- د. مهندس مصطفى محمد عبد الحفيظ الأحول. دراسات الجدوى الاقتصادية.
- ٦- معلومات من المؤسسة العامة للإسكان والتطوير الحضري.
- ٧- المهندس فيصل المصري. مجلة المهندس الأردني.
- ٨- ترجمة كتاب إعادة هندسة نظم العمل في المنظمات (الهندسة) تأليف مايكل هامر وجيمس شامبي.
- ٩- المهندس لين فاخوري. الموروث العمراني والسياحة، صيغ الأحياء بين الماضي والمستقبل.
- ١٠- المهندس فريد فاضل الجندي. لمحة موجزة عن المواصفات، الكميات، والمقاييس في مشاريع الأبنية والطرق. وزارة الشؤون البلدية والقروية والبيئة.
- ١١- المهندس أيوب عيسى أبو دية. مجلة المهندس الأردني.
- ١٢- ترجمة كتاب إعادة هندسة نظم العمل في المنظمات (الهندسة) تأليف مايكل هامر وجيمس شامبي.
- ١٣- دستور البناء الوطني الأردني الجمعية العلمية الملكية ١٩٨٤.
- ١٤- أيوب أبو دية، عيوب الأبنية / الطبعة الأولى، عمان ١٩٨٩.
- ١٥- نشرة مؤسسة أبحاث ومعلومات صناعة الإنشاءات البريطانية 1992 Ciria.
- ١٦- نشرات وتعليمات محلية مختلفة.
- ١٧- حصيلة شخصية لتجارب الكاتب طوال ٢٦ سنة من العمل (المهندس محمود صبري).
- ١٨- كلمة المهندس/ محمد خير عبد الله زيد الكيلاني. رئيس مجلس إدارة جمعية المستثمرين في القمّاع الإسكاني الأردني في ندوة اتجاهات التخطيط الحضري