FUE - Future University in Egypt

Faculty of Engineering and Technology
Faculty Requirement Course

جـــــامـــــعة المســـــتقبل

Course Specifications

ARC 582: Professional Practice & Legislations
(Faculty Elective Course)

Programme (s) on which the course is given: All Faculty Engineering Programs
Major or minor element of programmes: (Not Applicable)
Department offering the programme: N/A
Department offering the course: Architectural Engineering
Academic year/Level: Level five – 10th semester
Date of specification approval: November 2017

A- Basic Information

Title: Professional Practice & Legislation   **Code: ARC 582**
Credit Hours: **2 Cr. Hrs.**
          Lectures: **1 Hrs.**
          Tutorial: **2 Hrs.**
Total: **3 Hrs.**
Prerequisite: As Advised

B- Professional Information

1- Catalog Course Description:

The course explains the roles and the relationship between the different participants in the construction process; the Architect, the contractor and the owner. It is a study of the professional practice, codes and legislations in terms of rights, commitments, ethics and scope of services. Types of contracts, fees and bidding are important issues of this course. Also, case studies of real sites are examined, discussed and analyzed in classes.

2- Overall aims of the course:

The main goal of this course is to:
1. Enhance the student's knowledge and awareness regarding the different roles he/she will play in his future professional practice.
2. Enhance the student's knowledge and awareness regarding the duties and rights of different parties of project life cycle: Client, Contractor, and Architect.
3. Train student to use "building law bylaw", "building safety code", and "Egyptian Engineers Syndicate" bylaws for fee estimation.

3- Intended learning outcomes of course (ILOs):

a- Knowledge and understanding:
By the end of this course the student should maintain proficiency level at:
a1. Listing the Architect's Consultation services that can be provided to client.
a2. Selecting the "suitable to use" Statement in case of planning and land dividing.
a3. Selecting the "suitable to use" Statement in case of building design.
a4. Defining the Architect's role, rights and commitment in light of the legislations and Egyptian Engineers Syndicate.
a5. Defining the Contractor's role, rights and commitment in light of the FIDIC
a6. Defining the contracts agreements types.

b- Intellectual skills:
By the end of this course the student should maintain proficiency level at:
b1. Analyzing the architectural project legality in light of local building codes and legislations.
b2. Evaluating construction contracts agreement and guarantee against construction flaws.
b3. Evaluating a correct consultation contract between the client and the architect in light of the needed scope of work.

c- Professional and practical skills:
By the end of this course the student should maintain proficiency level at:
c1. Calculating the architect's fee based on the needed scope of work according to the Egyptian Engineers Syndicate bylaws.
c2. Applying "Building Law No.119 Est. 2008" and its bylaw in design projects.
c3. Applying fire safety requirements in design projects.

d- General and transferable skills:
By the end of this course the student should maintain moderate level at:
d1. Searching for data in references.
d2. Deal with colleagues according to professional ethics

4- Course ILOs versus Program ILOs relation
Not Applicable

5- Course Contents:

No	Course Content	lecture	Tutorial	Total
1	Introduction; Professional practice , and legislations roles	3	0	3
2	Planning Codes	2	4	9
3	Building Codes	2	4	6
4	Building fire protection Codes	4	8	9
5	Client/ Consultant relation; Consultation Contracts	2	4	9
6	Client/ Contractor relation; Construction Contracts	2	4	9
	Total	15	30	45

For the relation between the course contents and "Intended Learning Outcomes" (ILOs) see Appendix, table [2]

6- ILOs Teaching / Learning Method
See Appendix, table [3]

7- ILOs Assessment Method
See Appendix, table [4]

8- Weighting of assessments

- Final exam: 40%
- Year's work: 50%
  - o In Class Assignments 30%
  - o Midterm Exam 20%
- Participation 10%

9- List of references:

1. <u>**Text Book:**</u>
- Building Law No.119 Est. 2008
قانون البناء الموحد لسنة 2008 ولائحته التنفيذية الصادرة في 2009
- Egyptian Code for design principles and construction conditions for buildings fire protection (Part 1)
الكود المصري لأسس التصميم واشتراطات التنفيذ لحماية المنشآت من الحريق (الجزء الأول)
2. <u>**Recommended Readings**</u>
- Nassar; Gamal EI-Din,
Arabic translation of conditions of contract for construction for building and engineering works designed by the employer, guidance for the preparation of particular conditions, forms of letter of tender, contract agreement and dispute adjudication board, 2001
- "Egyptian Engineers Syndicate" bylaws regarding the architecture profession
- Nigel Ostime,
Riba Architect's Job Book, 9th Edition, RIBA Publications, 2013.
3. <u>**Course notes**</u>
4. <u>**Course handouts**</u>

10- Facilities required for teaching and learning:

- Lecture Hall equipped with White board
- Computer & Data show for presentations

Course coordinator:
Head of Department:
Date: **November 2017**

Course Instructor:

Appendix (1)

Table [2]: Course Content/ILO Matrix													
Topic	a1	a2	a3	a4	a5	a6	b1	b2	b3	c1	c2	c3	d1	d2
Introduction; Professional practice, and legislations roles	•													•
Planning Codes		•					•				•		•	
Building Codes			•				•				•		•	
Building fire protection Codes			•				•					•	•	
Client/ Consultant relation; Consultation Contracts	•			•				•	•				•	•
Client/ Contractor relation; Construction Contracts					•	•		•						•

Table [3]: Learning Method/ILO Matrix													
Learning Method	a1	a2	a3	a4	a5	a6	b1	b2	b3	c1	c2	c3	d1	d2
Lecture	•	•	•	•	•	•							•	•
Case Based Analysis							•	•	•	•	•	•	•	
Group Discussion														•

Table [4]: Assessment Method/ILO Matrix													
Assessment Method	a1	a2	a3	a4	a5	a6	b1	b2	b3	c1	c2	c3	d1	d2
Assignments	•	•	•	•	•	•	•	•	•	•	•	•	•	
Observation checklist														•
Written Exams	•	•	•	•	•	•	•	•	•	•	•	•	•	