

**Course Syllabus**  
020LEBGS1, Building Rules and Regulations

1. **Course number and name:** 020LEBGS1, Building Rules and Regulations
2. **Credits and contact hours:** 2 ECTS credits, 17.5h
3. **Instructor's or course coordinator's name:** Joseph Abdel Ahad
4. **Textbook and other supplemental material:**
  - a. Class notes
5. **Specific course information**
  - a. **Catalog description:** To enable students to develop a project to construct a building in accordance with the regulations of the Building Act.
  - b. **Prerequisites:**
  - c. **Required/Elective/Selected Elective:** Required Engineering General Education.
6. **Specific goals for the course**
  - a. **Specific outcomes of instruction:**
    - Introduce the students to the concept of legislations in Buildings field.
    - Understand the conditions of the inclined land and fences –
    - Understand the conditions of the building permit and conditions of license - Conditions of the housing permit.
    - Explain the roads of the property and the conditions of purchase of these public goods
    - Explain the envelope of the buildings on the roads.
    - Understand the projections on the line of the envelope on the road.
    - Present the dimensions of the field of vision.
    - Explain the safety and public health and architectural aspects - Building rules of high height > 50m -
    - Explain height of buildings and number of floors of independent buildings - Portions of buildings not included in the surface and total operating coefficients: balconies, basements, floors, etc. –
    - Understand parking and number of compulsory cars and alternatives. Incentive of additional and public car parks - Free height under ceiling
    - Discuss expropriation Act, Act 324-Act
  - b. **KPIs addressed by the course:**

<b>KPI</b>	a2	j1
<b>Covered</b>	x	x
<b>Assessed</b>		
<b>Give Feedback</b>		
7. **List of topics covered and approximate number of lectures (1 lecture = 1h 15 min):**
  1. Introduction (2 lecture)
  2. The conditions of the inclined land and fences, the conditions of the building permit and conditions of license - Conditions of the housing permit. (3 lectures)

3. The roads of the property and the conditions of purchase of these public goods, the envelope of the buildings on the roads identification properties and classification concepts (3 lectures)

## Course Syllabus

**8. Course number and name:** 020OUMGS5, Maritime Structures

**9. Credits and contact hours:** 2 ECTS credits, 17.5h

**10. Instructor's or course coordinator's name:** Hassan Deghaily

**11. Textbook and other supplemental material:**

- a. Instructor Class notes

### **12. Specific course information**

a. **Catalog description:** Give students the basics in order to be able to calculate the maritime effects on the components of a port or a maritime work.

b. **Prerequisites:**

c. **Required/Elective/Selected Elective:** Required Engineering course in water engineering at advanced level.

### **13. Specific goals for the course**

#### **a. Specific outcomes of instruction:**

- Introduce the students to the swell problems
- Define physical and chemical properties of seawater
- Explain Sea action on building materials
- Explain Principles for the establishment of a seaport
- Explain external works. Inland works of ports - Docking works.
- Understand Tools of seaports
- Understand clearing of the channels of access of ports and bodies of water. Dredging.
- Refloating of shipwrecks

#### **b. KPIs addressed by the course:**

KPI	a2	c1	c2	e1	e3
Covered	x	x	x	x	x
Assessed			x		
Give Feedback					

### **14. List of topics covered and approximate number of lectures (1 lecture = 1h 15 min):**

4. Introduction (1 lecture)
5. Physical and chemical properties of seawater (2 lectures)
6. Sea action on building materials (2 lectures)
7. Principles for the establishment of a seaport (4 lecture)
8. External works, Inland works of ports - Docking works (2 lectures)
9. Tools of seaports (2 lectures)
10. Clearing of the channels of access of ports and bodies of water. Dredging. (3 lectures)
11. Refloating of shipwrecks (1 lecture)