

Building Lighting

1. **Course number and name:** 020RESGS4 Building Lighting
2. **Credits and contact hours:** 2 ECTS credits, 1x1.25 hours
3. **Name(s) of instructor(s) or course coordinator(s):** Antoine SAWAYA
4. **Instructional Materials:**
 - a. Lamps and Lighting (J.R. Coaton and A.M. Marsden)
 - b. Memotech electro-technique (R.Bourgeois D.Cogniel)
 - c. Memotech équipement et installation électriques (R.Bourgeois D.Cogniel)
5. **Specific course information**
 - a. **Catalog description:** Provide the necessary elements to: Basic of lighting, type of lamps, type of lighting fixtures, calculation tools and lighting software. Electrical drawings, Low current systems, electrical panel, power and low current riser.
 - b. **Prerequisites or co-requisites:** None
 - c. **Required:** Required for Buildings and Engineering Management Specialty students.
6. **Educational objectives for the course**
 - a. **Specific outcomes of instruction:**
 - Introduce the students to the basic of lighting.
 - Present the type of lamps and lighting fixtures.
 - Develop the calculation methods and software tools “Dialux”.
 - Introduce the basic theory of electrical installation.
 - Expose students to the safety rules.
 - Familiarize students to the low current systems.
 - Enhance the student to understand electrical drawings.
 - b. **PI addressed by the course:**

PI	1.1	2.1	2.2	2.3	3.1	5.2	6.1	7.1	7.2
Covered	yes	yes	yes	yes	yes	yes	yes	yes	yes
Assessed	yes	yes	yes	yes	yes	yes	yes	yes	yes
7. **Brief list of topics to be covered:**
 - Introduction on Lighting (1.25 hours)
 - Lamps (2.5 hours)

- Lighting fixtures (1.25 hours)
- Calculation tools and software (3.75 hours)
- Basic of electrical installation (1.25 hours)
- Safety rules and panels (2.5 hours)
- Low current systems (2.5 hours)