

**Course Syllabus**  
**020RESGS4 Building Lighting and Sanitary**

1. **Course number and name:** 020RESGS4 Building Lighting and Sanitary.
2. **Credits and contact hours:** 2 credits - 17.5 hours
3. **Instructor's or course coordinator's name:** Bassam HABRE
4. **Textbook and other supplemental material:**
  - a. DTU 60.11 - Building works — Calculation rules for sanitary installations and rainwater.
  - b. "Practical calculations of Plumbing and Sanitary installations – Cold water, Hot water and Drainage"
5. **Specific course information**
  - a. **Catalog description:** This course covers the general and performance requirements, as well as techniques of sanitary plumbing. It addresses the design and calculation of water supply networks and drainage systems within buildings.
  - b. **Prerequisites:** None.
  - c. **Required/Elective/Selected Elective:** Required course for students in Building and Engineering Management Option.
6. **Specific goals for the course**
  - a. **Specific outcomes of instruction:**

By the end of the course, the student will be able to:

    - i. design a plumbing project and prepare the related technical documents.
    - ii. analyze a project based on technical, economical and regulatory arguments.
    - iii. discuss with specialists in order to ensure perfect control of the plumbing project and monitoring its implementation.
  - b. **KPIs addressed by the course:**

KPI	a2	c1	c2	e1	e3	k3
Covered	x	x	x	x	x	x
Assessed						
Give Feedback						

7. **Brief list of topics to be covered and approximate number of lectures:**
  - a. Technical and regulatory references – 1.5 hours
  - b. Administrative and architectural project environment – 1.5 hours
  - c. Water usage and needs – 1.5 hours
  - d. Cold water supply calculations – 2 hours
  - e. Pipe sizing – 1.5 hours
  - f. Hot water storage – 2 hours
  - g. Waste and soil water drainage – 1.5 hours
  - h. Storm water drainage – 2 hours
  - i. Separators and lifting stations – 1.5 hours