

Course Syllabus

020MEAGS5 Data measurement and acquisition (hydrologic measurement)

1. **Course number and name:** 020MEAGS5 Data measurement and acquisition (hydrologic measurement)
2. **Credits and contact hours:** 1 credits, 9.5 course hours
3. **Instructor's or course coordinator's name:** Wajdi NAJEM
4. **Textbook and other supplemental material:**

- a. World meteorological Organization *Guide des pratiques hydrologiques*, OMM-N°168

5. **Specific course information**

- a. **Catalog description:** Provide the necessary elements to: Understand the hydrologic measurement sequence, design systems for measurement of atmospheric water (rainfall, snowfall, evaporation...), choose the site and design hydrometric stations on rivers and select the adapted equipment for these stations.
- b. **Prerequisites:** None.
- c. **Required/Elective/Selected Elective:** Required major course for Water and Environment Specialty students

6. **Specific goals for the course:**

a. **Specific outcomes of instruction:**

- Introduce the students to the concepts of data measurement and acquisition
- To be able to design a climatic station
- To be able to choose a site, and design a hydrometric station
- Enhance the students' writing and oral presentation skills

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

KPI	a1	a2	b1	b2	b3	c1	g1
Covered	x	x	x	x	x	x	x
Assessed	x	x	x	x			
Give Feedback	x	x	x				

7. **Brief list of topics to be covered and approximate number of lectures:**

1. Hydrologic measurement sequence(1.5 hours)
2. Measurement of atmospheric water(3 hours)
3. Site of a hydrometric station (2 hours)
4. Elements of limnigraphy (1.5 hours)
5. Flow measurments and rating curves (1.5 hours)