

## Course Syllabus

1. **Course number and name:** 020STFNI2 Hydrostatics
2. **Credits and contact hours:** 2 ECTS credits,  $2 \times 1:15$  course hours
3. **Instructor's or course coordinator's name:** Antoine ALLAM
4. **Textbook:** *Physique tout-en-un MP, Salamito, J'intègre-Dunod, 2014*
5. **Specific course information**
  - a. **Catalog description:** Fluids, Fluid properties, viscosity, Basic Principles of Pressure, Hydrostatic Law, Pascal Law, Archimedes Law, Hydrostatic force on a plane surface and a curved surface.
  - b. **prerequisites:** None
  - c. **Required/Elective/Selected Elective:** Required
6. **Specific goals for the course**
  - a. **specific outcomes of instruction**
    - To learn the fundamental principles of Fluid properties.
    - Define the basic principles of Pressure.
    - Illustrate the Hydrostatic Law, Archimedes Law and Pascal Law.
    - To describe Hydrostatic force on a plane surface and a curved surface.

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

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

7. **Topics and approximate lecture hours:**
  - Fluid properties (2 Lecture)
  - Basic Principles of Pressure (2 Lectures)
  - Hydrostatic Law, Pascal Law, Archimedes Law (4 Lectures)
  - Hydrostatic force on a plane surface and a curved surface (6 lectures)