

Course Syllabus

1. Course number and name: 020GECNI1 The Electrical and Mechanical Engineering in the Service of the community
2. Credits and contact hours: 4 ECTS credits, 1x1:15 contact hours + mini project
3. Instructor's or course coordinator's name: Gabriel Deek
4. Text book: No text book
 - a. other supplemental materials:
Professor Presentation and Course Material
5. Specific course information
 - a. catalog description :
This course introduce the engineering activities, their impact on society and engineers themselves and the major skills that engineers should master.
 - b. prerequisites : None
 - c. Required/Elective/Selected Elective: Required
6. Specific goals for the course
 - a. specific outcomes of instruction
 - Identify engineering activities.
 - Recognize their impact on communities and society at large
 - Identify soft skills that engineers should master in order to thrive in today's world
 - Understand the principles of modern entrepreneurship
 - b. KPIs addressed by the course.

KPI	f1	g1	i1	j1
Covered	x	x	x	x
Assessed	x	x		x
Give Feedback	x	x		

7. Topics and approximate lecture hours :
 - Course introduction, The various engineering activities (1 Lecture)
 - The various engineering activities (1 Lecture)
 - Competence versus Responsibility (1 Lecture)

- The Knowledge Economy: paradigm and social impact (1 Lecture)
- The pillars of Knowledge Economy (2 Lectures)
- The channels of Knowledge Economy and social impact (3 Lectures)
- The engineer personal skills (1 Lecture)
- The engineer general rules of behavior (2 Lectures)
- The Principles of modern entrepreneurship and business plan building (3 Lectures)
- Students presentations (3 Lectures)
- Mini project describing a community service in electrical and mechanical engineering for a contemporary issue (equivalent to 10 lectures hours)