

Engineering Ethics 2020

Suggested Syllabus

Course Number:

Academic credit: 2 pt.

Semester: Spring 2020

Lecturer: Dr. Ilana Kepten (ikepten@braude.ac.il)

Office: Dormitories building 6 Rm. 802 (appointments scheduled via e-mail)

Class goals: Uncover the ethical issues that an engineer/ technologist / consumer could face. Practice moral discourse. Discuss technology related ethical challenges and suggest possible responses.

Teaching, assignments and grading:

1. The syllabus below is only tentative. The course syllabus will be discussed during the first meeting and students' requests/ suggestions will be included if appropriate.
2. Through the semester students will have the opportunity to discuss certain test cases. The cases will be brought up by the lecturer and by students based on professional literature, social media and news reports. All the written materials will be in English.
3. Class assignments and grading:
 - a. Participation in online forums and during the lessons - 30%
 - b. Midterm Written assignment- 25% (obligatory). Can be submitted in pairs.
 - c. Final written assignment- 45% (obligatory)
4. Students can express themselves in class meetings in Hebrew and be translated if needed by the lecturer. English is obligatory in the Forums.
5. Written assignments can be submitted in English or Hebrew.
6. During the semester 3-4 topics will be presented only online (notification will be given in advance)

Suggested syllabus:

Week	Topic
1	Being a professional engineer/ technologist. History and moral mishaps.
2	The basics of ethical thought- brief intro to philosophy
3	The basics of ethical thought- Engineering ethical principles and codes.
4	Conflicting ethics: Research vs. Engineer vs. citizen
5	Analyzing ethical dilemma and conflicts
6	Obligation to Honesty (stakeholders)
7	Obligation to safety (stakeholders)
8	Obligation to safety (stakeholders)- Risk assessment

9	Ethics of addressing Cultural differences (foreign countries as an example)
10	Ethics of marketing and sales
11	Innovation- as a moral challenge
12	Environmental Ethics vs. Technology (?)
13	Drugs and medical devices

Study materials: All written materials, assignments and references will be available on Moodle