

Tárgytematika / Course Description**Engineering Ethics****EKNM_SETA019****Tárgyfelelős neve /****Teacher's name:** Dr. Kegyes-Brassai Orsolya Katalin**Félév / Semester:** 2022/23/1**Beszámolási forma /****Assesment:** Folyamatos számonkérés**Tárgy heti óraszám /****Teaching hours(week):** 2/0/0**Tárgy féléves óraszám /****Teaching hours(sem.):** 0/0/0**OKTATÁS CÉLJA / AIM OF THE COURSE*****Goals of the course***

Ethical questions connected with the civil engineering activity, competence and societal roles are discussed. Scrutiny is extended to the challenges related with the application and development of professional engineering knowledge. Instead of teaching a unique, standard system the students are invited and stimulated in seminar-like discussions to increase their well-informed knowledge about the values and limits represented by several ethical schools. Case studies are presented and discussed to reconsider and assess their personal ethical attitudes.

TANTÁRGY TARTALMA / DESCRIPTION***Course description***

Week 1	Introductory overview of ethical questions and answers in the professional, corporate and societal engineering activity. Autonomy and responsibility of the civil engineer.
Week 2	Ethical schools, values, systems. 1. homework (case history augmented with ethical comments and considerations)
Week 3	General and professional ethics. Students' presentations (comparative description and discussion of several schools).
Week 4	Possibilities, motivations and limits of choice among and within the ethical systems. Students' presentations (comparative description and discussion of several schools).

Week 5	Professional, corporate and societal determination of the maxims for engineers. Codes of ethics. Students' presentations (comparative description and discussion of several schools).
Week 6	Rules and responsibilities attached to educational levels and competences. 2. homework (case analysis with different ethical approaches).
Week 7	Particular ethical considerations in design, expertise, supervision, construction, etc.
Week 8	Ethical risks, traps, corporate conflicts. Case studies.
Week 9	Personal, communal and social frames and constraints of the ethical behaviour. Case studies.
Week 10	Students' presentations (case analysis with different ethical approaches).
Week 11	Ethical questions of leadership and professional influence in the engineering roles. Students' presentations (case analysis with different ethical approaches).
Week 12	Reserved week (for occasions lost because of holidays, university actions etc. during the semester).
Week 13	Case studies with societal backgrounds and lessons. Students' presentations (case analysis with different ethical approaches).
	Evaluation and discussion of the

SZÁMONKÉRÉSI ÉS ÉRTÉKELÉSI RENDSZERE / ASSESSMENT'S METHOD

Assessment methods

Students are expected to attend all classes. The requirement for obtaining signature at the end of the semester is a participation in at least 70% of the classes (10 out of 14 weeks).

All of them have to

- select and compare two or three ethical schools for presenting their bases, history, values, advices, etc,
- elaborate a case study (combined with oral presentation),
- submit short exercises during classes and participate in their discussion.

Evaluation - mid-semester assessment

Available scores in partial performance evaluation:

- comparison of ethical schools 0-20
- presentation at the seminar 0-20
- case study analysis 0-40
- short class exercises (4x5) 0-20

Students can choose on their preferences if they want to hand in an assignment or not. The minimum score can be obtained with different submissions: e.g. first two assignment (2×20) and 2 or 3 short class exercises. Or the written assignment (40) and 2 or 3 short class exercises.

However in case on late submission the maximum obtainable score is the 80 % of the total.

Deadlines are available on the Moodle-site of the course:

<https://szelearning.sze.hu/course/view.php?id=373>

Marking intervals				
...-50 failed	51-63 accepted	64-76 average	77-89 good	90- excellent

So far assignments have to be accomplished until the exam period there is no possibility to hand in assignment in exam period. latest possibility to hand in an assignment is the Friday of the first week of exam period until midnight. Later assignments will not be taken into account at marking.

Consultation is available within the time of the class and in another time agreed upon by a prior email.

All information concerning the course and all teaching materials are available on Moodle-site of the course. Official communication is through this site.

KÖTELEZŐ IRODALOM / OBLIGATORY MATERIAL

Reading

Martin M W, Schinzinger R: Introduction to Engineering Ethics

papers, textbook chapters provided by the lecturer and/or circulated in the internet

http://en.wikipedia.org/wiki/Engineering_ethics