

Tárgytematika / Course Description

Engineering Ethics

NGM_SE104_1

Tárgyfelelős neve /

Teacher's name: dr. Scharle Péter

Félév / Semester: 2015/16/1

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

Intentions of the subject

Ethical questions connected with the civil engineering activity, competence and societal roles are discussed in introductory lectures. Overview is extended to more general basics (discussed in philosophy and social sciences), to ethical schools and systems, and to the challenges related with the application and development of the professional engineering knowledge. Instead of learning and accepting a unique, optimal and right ethical system the students are invited and stimulated in seminar-like discussions to increase their well-informed knowledge about the values and limits represented by the ethical schools, to reconsider and assess their personal ethical attitudes, to discuss the possibilities of accepting different merits and cooperation potentials existing within the different ethical confessions and engagements. Case studies are presented and elaborated to apply the more general aspects and considerations in the context of building, construction, design and public activities.

TANTÁRGY TARTALMA / DESCRIPTION

Content

- 1.week General introduction
- 2.week Values declared in practical ethical schools
- 3.week Professional attitudes. Potentials, motivations and limits of choice among values
- 4.week Determinations in the professional and societal environment. Codes of ethics
- 5.week *Presentations* (delivered by the students)
- 6.week Levels of the education. Ethical risks and responsibilities
- 7.week Functional ethics (design, consulting, contracting, supervising, etc)
- 8.week Ethical issues in the graduate education and life long learning
- 9.week Ethical traps and conflicts in the leadership
- 10.week *Presentations* (delivered by the students)

11. week Limits of the responsible conduction

12. week Ethical issues in the world of information and communication

SZÁMONKÉRÉSI ÉS ÉRTÉKELÉSI RENDSZERE / ASSESMENT'S METHOD

Evaluation system

Students are invited to attend all classes (combining introductory lectures and seminars). All of them have to select an ethical school or system for presenting its background, history, values, advices etc. in a 10 min presentation and moderate the seminary discussion on it. Two homeworks are to be prepared and submitted in due course.

Homeworks

1. Evaluation essay of a case study selected from the available literature (submission: 6. week)
2. Comparative analysis of an engineering case (submission: 11. week)

Evaluation

Available scores in partial performance evaluation:

presentation at the seminar 0-20

participation in the case study discussions 0-20

homework 1 0-20

homework 2 0-25

general activity (on subjective terms) 0-15

Marking intervals

...-40 failed 41-53 accepted 54-66 average 67-79 good 76- excellent

KÖTELEZŐ IRODALOM / OBLIGATORY MATERIAL

Literature and references

<http://eki.sze.hu/ftp/mtm/> www.sze.hu/ <http://eki.sze.hu/ftp/mtm/~scharle>

papers, chapters circulated in the internet