

**TANTÁRGYI TEMATIKA ÉS TELJESÍTÉSI KÖVETELMÉNYEK**  
**2018/2019. II. FÉLÉV**

<b>Cím</b>	<b>Engineering Ethics &amp; Attitude</b>
<b>Tárgykód</b>	<b>SZM006AN-EA-00</b>
<b>Heti óraszám: ea/gy/lab</b>	<b>2/0/0</b>
<b>Kreditpont</b>	<b>2</b>
<b>Szak(ok)/ típus</b>	<b>Civil Engineering</b>
<b>Tagozat</b>	<b>Full time</b>
<b>Követelmény</b>	<b>Examination (with grade)</b>
<b>Meghirdetés féléve</b>	<b>2018-2019/2 (Spring Term)</b>
<b>Előzetes követelmény(ek)</b>	<b>None</b>
<b>Oktató tanszék(ek)</b>	<b>Department of Civil Engineering</b>
<b>Tárgyfelelős és oktatók</b>	<b>Dr. András Timár Professor Emeritus</b>

**TANTÁRGY CÉLKITŰZÉSE**

*Célok/Objectives:* The Course on Engineering Ethics and Attitude is designed to introduce students of Civil Engineering to the concepts, theory and practice of ethics. They will be prepared to understand the foundation of classical moral theory and decision making in the context of engineering applications

**TARTALMA**

*Rövid leírás/Short description:* Engineering ethics combines societal, economic and environmental factors in order to produce a set of rules that could lead an engineer to make decisions that protect the public interest regardless of any pressures that they may encounter while serving for corporate organizations. Students are enabled to recognize and properly evaluate ethical challenges that they may face in their professional careers through knowledge and exercises (discussing Case Studies from real life), that deeply challenge and finally strengthen their decision making abilities and ethics. Ethic problems examined by Case Studies seldom have a single clear-cut correct answer, but may have many solutions, where some considered to be better than others. Therefore, ethical problems can be treated similarly to open-ended engineering design problems, where multiple solutions exist.

*Témakörök/Topics:* Philosophy, Ethics and Morality; Attitude and Behaviour; Codes of Ethics for Engineers; Case Studies from the Engineering Practice

## Előadás/Lectures

1. **11.02.2019.** The Importance of Ethics in Engineering; Philosophy, Religion and Ethics
2. **25.02.2019.** Moral Analysis & Decision Making; Virtues & Habits; Internal & External Morality; Moral Responsibility & Legal Regulation
3. **11.03.2019.** Bribery and Corruption; Attitude and Behaviour; Truth and Whistle-blowing
4. **25.03.2019.** The Role and Historical Development of Codes of Ethics for Civil Engineers; Plagiarism and Copyright
5. **08.04.2019.** *Spring Mid-Term Holiday*
6. **22.04.2019.** *Easter Monday Holiday*
7. **06.05.2019.** Conflict of Interest; Equal Treatment: Fairness in Tendering, Contracting and Supervising; Case Studies

## SZÁMONKÉRÉSI ÉS ÉRTÉKELÉSI RENDSZERE

**Részvétel/Participation:** It is required to attend all lectures (to be controlled), while attendance will impact the grade (max. 15%). Unexcused absences will adversely affect the grade and in case of absence from more than 50% of the total number of lectures will be grounds for failing the entire course. To be in class at the starting time and stay there until the scheduled end of the lecture is required, delayed arrival or early departure of more than 20 minutes will be considered as an absence. In the case of an illness or family emergency, the student must present a valid written excuse, such as a doctor's note.

**Aláírás / Félévközi jegy feltétele/ Conditions of acknowledgement:**

- Attendance of lectures, in-class activity (attending minimum 50% of the lectures)
- Preparation of a written Case Study related to engineering ethics (in compliance with the Guidelines to be distributed) and accepted by the instructor before the end of Term
- Passing the written examination (quiz-like) in the examination period

**Vizsga/Examination:** Written examination (quiz-like) is to fill-in a questionnaire containing 33 questions by selecting the right answer to each question from 3 optional ones.

**Az érdemjegy kialakításának módja/Composition of final grade:** Grading will be calculated by using the following weight-factors:

- Attendance at lectures: 15%
- Case Study (Home-Work) 30%
- Written examination: 55%

Grading scale for the written final examination based on percentage of right answers

<i>Grade:</i>	5 (excellent)	4 (good)	3 (fair)	2 (pass mark)	1 (inadequate)
<i>Percentage</i>	85%-100%	74%-84%	63%-73%	51%-62%	0-50%

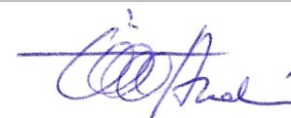
## KÖTELEZŐ ÉS AJÁNLOTT IRODALOM

- [1.] **Fleddermann, C.B.** (2011): Engineering Ethics. Prentice Hall, 4th edition
- [2.] **Van de Poel, I., and L. Royakkers** (2011): Ethics, Technology, and Engineering: An Introduction. Wiley-Blackwell
- [3.] **Dave Robinson** (2012): Introducing Ethics for Everyday Life: A Practical Guide. Icon Books Ltd, UK
- [4.] **C. Ben Mitchell** (2013): Ethics and Moral Reasoning: A Student's Guide. Crossway, Illinois, USA
- [5.] **Code of Professional Conduct of the European Council of Civil Engineers** (ECCE)[http://www.ecceengineers.eu/about/code\\_of\\_conduct.php](http://www.ecceengineers.eu/about/code_of_conduct.php)
- [6.] **Code of Ethic of the American Society of Civil Engineers (ASCE)**  
<http://www.asce.org/code-of-ethics/>

ÜTEMEZÉS

		SZORGALMI IDŐSZAK, OKTATÁSI HETEK															VIZSGAIDŐSZAK						
2018/2019. II. FÉLÉV		1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	1.	2.	3.	4.	5.		
Előadás tematika sorszáma			1		2		3		4				-		7				Aláírás, félévközi jegy már nem pótolható				
Gyakorlat/Labor sorszáma																							
Zárhelyi dolgozat																							
Otthoni munka	kiadása		x																				
	beadási határidők													x									
Jegyző- könyvek	beadási határidők																						
Egyebek	pl. beszámolók,																						
	stb.																						
Aláírás / Félévközi jegy megadása																a /fj							
Vizsgák tervezett időpontjai																	x	x					

2019.február 4.



tantárgyfelelős