

SYLLABUS ¹

1. Information about the program

1.1 Higher education institution	Politehnica University Timisoara
1.2 Faculty ² / Department ³	Civil Engineering/CLS
1.3 Chair	—
1.4 Field of study (name/code ⁴)	Civil Engineering/80
1.5 Study cycle	bachelor
1.6 Study program (name/code/qualification)	Civil Engineering (in English)/10/Engineer

2. Information about the discipline

2.1 Name of discipline/ formative category ⁵	Engineering Ethics and Communication/ DD						
2.2 Coordinator (holder) of course activities	Assistant dr. Marcela Alina Fărcașiu						
2.3 Coordinator (holder) of applied activities ⁶	Assistant dr. Marcela Alina Fărcașiu						
2.4 Year of study ⁷	II	2.5 Semester	4	2.6 Type of evaluation	D	2.7 Type of discipline ⁸	DI

3. Total estimated time – hours / semester: direct teaching activities (fully assisted or partly assisted) and individual training activities (unassisted) ⁹

3.1 Number of fully assisted hours / week	2 of which:	3.2 course	1	3.3 seminar / laboratory / project	1
3.1* Total number of fully assisted hours / semester	28 of which:	3.2* course	14	3.3* seminar / laboratory / project	14
3.4 Number of hours partially assisted / week	of which:	3.5 training		3.6 hours for diploma project elaboration	
3.4* Total number of hours partially assisted / semester	of which:	3.5* training		3.6* hours for diploma project elaboration	
3.7 Number of hours of unassisted activities / week	1 of which:	additional documentary hours in the library, on the specialized electronic platforms and on the field			1
		hours of individual study after manual, course support, bibliography and notes			
		training seminars / laboratories, homework and papers, portfolios and essays			
3.7* Number of hours of unassisted activities / semester	14 of which:	additional documentary hours in the library, on the specialized electronic platforms and on the field			14
		hours of individual study after manual, course support, bibliography and notes			
		training seminars / laboratories, homework and papers, portfolios and essays			
3.8 Total hours / week ¹⁰	3				
3.8* Total hours /semester	42				
3.9 Number of credits	2				

4. Prerequisites (where applicable)

¹ The form corresponds to the Discipline File promoted by OMECTS 5703 / 18.12.2011 and to the requirements of the ARACIS Specific Standards valid from 01.10.2017.

² The name of the faculty which manages the educational curriculum to which the discipline belongs

³ The name of the department entrusted with the discipline, and to which the course coordinator/holder belongs.

⁴ The code provided in HG no.140 / 16.03.2017 or similar HGs updated annually shall be entered.

⁵ Discipline falls under the educational curriculum in one of the following formative disciplines: Basic Discipline (DF), Domain Discipline (DD), Specialist Discipline (DS) or Complementary Discipline (DC).

⁶ Application activities refer to: seminar (S) / laboratory (L) / project (P) / practice/training (Pr).

⁷ Year of studies in which the discipline is provided in the curriculum.

⁸ Discipline may have one of the following regimes: imposed discipline (DI), optional discipline (DO) or optional discipline (Df).

⁹ The number of hours in the headings 3.1 *, 3.2 *, ..., 3.8 * is obtained by multiplying by 14 (weeks) the number of hours in headings 3.1, 3.2, ..., 3.8. The information in sections 3.1, 3.4 and 3.7 is the verification keys used by ARACIS as: (3.1) + (3.4) ≥ 28 hours / wk. and (3.8) ≤ 40 hours / wk.

¹⁰ The total number of hours / week is obtained by summing up the number of hours in points 3.1, 3.4 and 3.7.

4.1 Curriculum	<ul style="list-style-type: none"> English Language
4.2 Competencies	<ul style="list-style-type: none">

5. Conditions (where applicable)

5.1 of the course	<ul style="list-style-type: none">
5.2 to conduct practical activities	<ul style="list-style-type: none">

6. Specific competencies acquired through this discipline

Specific competencies	<ul style="list-style-type: none"> Recognize and evaluate ethical challenges in the working environment
Professional competencies ascribed to the specific competencies	<ul style="list-style-type: none"> Complying to quality and sustainable requirements for civil, industrial and agricultural constructions
Transversal competencies ascribed to the specific competencies	<ul style="list-style-type: none"> Application of efficient and responsible work strategy, implying punctuality, seriously and personal responsibility, based on the principles, rules and values of professional ethics Documentation in Romanian and foreign language, in view of professional and personal development, via continuous learning and efficient adaptation to the new technical specifications

7. Objectives of the discipline (based on the grid of specific competencies acquired - pct.6)

7.1 The general objective of the discipline	<ul style="list-style-type: none"> Help students to recognize and evaluate ethical challenges that they will face in their academic and professional careers through knowledge and exercises that deeply challenge their decision making processes and ethics.
7.2 Specific objectives	<ul style="list-style-type: none"> An understanding of duties and responsibilities as professionals through gaining knowledge of the philosophies of ethics, professional practice, and world culture. Basic knowledge to make informed ethical decisions when confronted with problems in the working environment. Improved awareness of potential ethical issues within an engineering context. Team skills through working in teams on assignments and in-class assignments. Subjective analytical skills through investigation and evaluation of ethical problems in engineering settings using accepted tests for moral problem solving. An understanding of how societal morals varies with culture and how this influences ethical thought and action. Improved communications skills with regard to ethical and professional issues in engineering. Know some of the classic cases as well as contemporary issues in engineering ethics.

8. Content¹¹

8.1 Course	Number of hours	Teaching methods ¹²
Ethical theories. Ethical dilemmas. Ethics in engineering. The role of ethical codes. Engineer's professionalism. Engineer's responsibility regarding the public's safety	2	Lecture, , brainstorming, discussion, exemples
Conflicts of interest. Intellectual property and the professional secret. Whistleblowing.	2	
Risk management. Discrimination. Confidentiality.	2	
Communication and the communication process. Communication barriers in the workplace. Organisational communication. The 7 Cs of communication.	2	
Written communication in the workplace. Making an oral presentation	2	
Exam – first sit	2	
Exam - resit	2	
Bibliography¹³ 1. Harris, Pritchard, and Rabins, <i>Engineering Ethics: Cases and Concepts 3rd</i> , Wadsworth, 2005 2. Fărcașiu, M. Teaching Ethics to Undergraduate Engineering Students Using Case Studies. A Romanian Perspective, 13th SGEM GeoConference on Ecology, Economics, Education And Legislation, June 16-22, SGEM 2013 Conference Proceedings, Vol. 2: 537 – 542, 2013 3. Gesteland, R., <i>Cross-cultural Business Behaviour: Negotiating, Selling, Sourcing and Managing Across Cultures</i> , Copenhagen Business School, 2005 4. Schinzinger and Martin, <i>Introduction to Engineering Ethics 3rd</i> , McGraw-Hill Higher Education, 2000		
8.2 Applied activities ¹⁴	Number of hours	Teaching methods
Discussion of some ethical cases in the engineering environment	2	Conversation, simulation, debate, role
Discussion of some ethical cases in the engineering environment	2	

¹¹ It details all the didactic activities foreseen in the curriculum (lectures and seminar themes, the list of laboratory works, the content of the stages of project preparation, the theme of each practice stage). The titles of the laboratory work carried out on the stands shall be accompanied by the notation "(*)".

¹² Presentation of the teaching methods will include the use of new technologies (e-mail, personalized web page, electronic resources etc.).

¹³ At least one title must belong to the discipline team and at least one title should refer to a reference work for discipline, national and international circulation, existing in the UPT library.

¹⁴ Types of application activities are those specified in footnote 5. If the discipline contains several types of applicative activities then they are sequentially in the lines of the table below. The type of activity will be in a distinct line as: "Seminar:", "Laboratory:", "Project:" and / or "Practice/training".

Discussion of some ethical cases in the engineering environment	2	play
Using the 7 Cs when writing e-mails. Writing a business letter. Writing a memo,	2	
Oral presentations of ethical cases	2	
Oral presentations of ethical cases	2	
Oral presentations of ethical cases	2	
Bibliography ¹⁵		
<ol style="list-style-type: none"> Beer, D., McMurrey, D. <i>A Guide to Writing as an Engineer</i>. 3rd ed. New York: Wiley, 2009. Fărcașiu, M. Teaching Ethics to Undergraduate Engineering Students Using Case Studies. A Romanian Perspective, 13th SGEM GeoConference on Ecology, Economics, Education And Legislation, June 16-22, 2013, SGEM 2013 Conference Proceedings, Vol. 2: 537 – 542 Harris, Pritchard, and Rabins, <i>Engineering Ethics: Cases and Concepts 3rd</i>, Wadsworth, 2005 Shipley, D., Schwalbe, W. <i>Send: The Essential Guide to Email for Office and Home</i>. Rev. ed. New York: Knopf, 2008 		

9. Corroboration of the content of the discipline with the expectations of the main representatives of the epistemic community, professional associations and employers in the field afferent to the program

- Students will have the improved ability to function on multidisciplinary teams.
- Students will have an improved ability to communicate effectively.
- Students will have the broad education necessary to better understand the impact of engineering solutions in a global/societal context.
- Students will have recognition of the need for and an ability to engage in lifelong learning.

10. Evaluation

Type of activity	10.1 Evaluation criteria ¹⁶	10.2 Evaluation methods	10.3 Share of the final grade
10.4 Course		Final exam at the end of semester	50%
10.5 Applied activities	S:	Written assignments and an oral presentation	50%
	L:		
	P¹⁷:		
	Pr:		
10.6 Minimum performance standard (minimum amount of knowledge necessary to pass the discipline and the way in which this knowledge is verified ¹⁸)			
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Date of completion

25.01.2018

Head of Department

Course coordinator
(signature)

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Date of approval in the Faculty
Council¹⁹

Coordinator of applied activities
(signature)

.....
Dean

¹⁵ At least one title must belong to the discipline team.

¹⁶ Syllabus must contain the procedure for assessing the discipline, specifying the criteria, methods and forms of assessment, as well as specifying the weightings assigned to them in the final grade. The evaluation criteria shall be formulated separately for each activity foreseen in the curriculum (course, seminar, laboratory, project). They will also refer to the forms of verification (homework, papers, etc.)

¹⁷ In the case where the project is not a distinct discipline, this section also specifies how the outcome of the project evaluation makes the admission of the student conditional on the final assessment within the discipline.

¹⁸ It will not explain how the promotion mark is awarded.

¹⁹ The endorsement is preceded by the discussion of the board's view of the study program on the discipline record.

(signature)

12.02.2018

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