

SYLLABUS ¹

1. Information about the program

1.1 Higher education institution	Politehnica University Timisoara
1.2 Faculty ² / Department ³	Civil Engineering Faculty/Department of Land Communication Ways, Foundations and Cadastre
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/10/Engineer

2. Information about the discipline

2.1 Name of discipline/ formative category ⁵	PRACTICAL TRAINING – FIELD COURSE” SURVEYING						
2.2 Coordinator (holder) of course activities							
2.3 Coordinator (holder) of applied activities ⁶	Lector PhD Eng. BALA Alina Corina						
2.4 Year of study ⁷	1	2.5 Semester	1/2	2.6 Type of evaluation	C	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	of which:	3.2 course		3.3 seminar / laboratory / project	
3.1* Total number of fully assisted hours / semester	40 of which:	3.2* course		3.3* seminar / laboratory / project	40
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	of which:	additional documentary hours in the library, on the specialized electronic platforms and on the field			
		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	of which:	additional documentary hours in the library, on the specialized electronic platforms and on the field			4
		hours of individual study after manual, course support, bibliography and notes			4
		training seminars / laboratories, homework and papers, portfolios and essays			6
3.8 Total hours / week ¹⁰					
3.8* Total hours /semester	40				
3.9 Number of credits	2				

4. Prerequisites (where applicable)

4.1 Curriculum	•
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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.

4.2 Competencies	•
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5. Conditions (where applicable)

5.1 of the course	•
5.2 to conduct practical activities	• Promoting the discipline Surveying

6. Specific competencies acquired through this discipline

Specific competencies	<ul style="list-style-type: none"> Acquire knowledge regarding Surveying fundamentals used in order to solve engineering problems through topographic ways
Professional competencies ascribed to the specific competencies	<ul style="list-style-type: none"> Organization and management of the execution, operation and maintenance procedures for civil, industrial and agricultural constructions
Transversal competencies ascribed to the specific competencies	•

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"> The Surveying field practice aims to guide the students towards certain practical objectives regarding Surveying fundamentals, instruments, measurements and methods used in order to solve engineering problems through topographic ways.
7.2 Specific objectives	<ul style="list-style-type: none"> This period of field applications provides a number of well-structured examples, with which the student can work interactively under the teacher supervision. Finally, the students must be able to understand, to measure and compute most of the engineering projects, as well as setting them in the field. .

8. Content¹¹

8.1 Course	Number of hours	Teaching methods ¹²

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.).

Bibliography ¹³

8.2 Applied activities ¹⁴	Number of hours	Teaching methods
Special measurements in the field (angles, lengths, elevations).	7	explication, measurements
Measurements and computations in order to obtain the situation plan with details.	12	
Evaluation of topographic profiles.	13	
Setting out projects in the field.	8	

Bibliography ¹⁵

- Grecea C. – Elemente de măsurători terestre, vol.1, Ed. Politehnica, Timișoara 2009
- ***Măsurători Tereste – Concepte, vol I, Topografie, Ed. Politehnica, Timișoara 2012
- J.McCormac, W. Davis – Surveying, Wiley Press, USA 2012

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

- This discipline content aims practical abilities development for specialty engineering projects understanding and setting out on the field.

10. Evaluation

Type of activity	10.1 Evaluation criteria ¹⁶	10.2 Evaluation methods	10.3 Share of the final grade
10.4 Course			
10.5 Applied activities	S:		
	L: Field project	Colloquium	100% of the final grade
	P ¹⁷ :		
	Pr:		

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".

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.

10.6 Minimum performance standard (minimum amount of knowledge necessary to pass the discipline and the way in which this knowledge is verified ¹⁸)

- A student must know how to work with a topographical map or plan and when to use a total station or a digital level..

Date of completion

26.01.2018

**Course coordinator
(signature)**

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**Date of approval in the Faculty
Council ¹⁹**

12.02.2018

**Coordinator of applied activities
(signature)**

.....
**Dean
(signature)**

**Head of Department
(signature)**

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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.