SYLLABUS 1

1. Information about the program

1.1 Higher education institution	POLITEHNICA University of Timisoara
1.2 Faculty ² / Department ³	Civil Engineering/CCI
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		Technology 1 / DS					
2.2 Coordinator (holder) of course activities		s.l.dr.ing. LUTE Marina					
2.3 Coordinator (holde	er) of a	oplied activities ⁶	as.d	r.ing. CHENDES Remus			
2.4 Year of study ⁷	Ш	2.5 Semester	6	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	4 of which:	3.2 course	2	3.3 seminar / laboratory / project	2
3.1* Total number of fully assisted hours / semester	56 of which:	3.2 * course	28	3.3* seminar / laboratory / project	28
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	2 of which:			ours in the library, on the tforms and on the field	
		hours of individual study after manual, course support bibliography and notes		after manual, course support,	1
		training seminars portfolios and es		tories, homework and papers,	1
3.7* Number of hours of unassisted activities / semester	28 of which:	additional documentary hours in the library, on the specialized electronic platforms and on the field			
		hours of individu bibliography and		after manual, course support,	14
		training seminars		tories, homework and papers,	14
3.8 Total hours / week 10	6		-		
3.8* Total hours /semester	84				
3.9 Number of credits	4				

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: $(3.1) + (3.4) \ge 28$ hours / wk. and $(3.8) \le 40$ 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. Prerequisites (where applicable)

4.1 Curriculum	Materials, Foundations, Concrete 2, Buildings
4.2 Competencies	The ability to identify the components of a structure

5. Conditions (where applicable)

5.1 of the course	Support Materials: laptop, projector, projection screen	
	The term for project submittal is set by the professor in consultation with students.	
5.2 to conduct practical activities	There will be accepting postponement on no other grounds than objective reasons. Also	
	late submittal will downgrade the project by 1 pt. /day of delay.	

6. Specific competencies acquired through this discipline

Specific competencies	Achieve a logical sequence of processes leading to the correct execution of an item of infrastructure
Professional competencies ascribed to the specific competencies	Technological and economical design for the erection, operation and maintenance works in civil engineering, specific to graduated study programme
Transversal competencies ascribed to the specific competencies	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	Assimilation of knowledge about the basic principles of design and implementation of a succession of processes that compete logically the actual achievement of an item of infrastructure	
7.2 Specific objectives	Technological and economic design works execution, operation and maintenance of civil engineering construction specifics to graduate studies program Organization and management of process execution, operation and maintenance of civil, industrial and agricultural construction	

8. Content 11

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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 "(*)".

8.1 Course	Number of hours	Teaching methods 12
Industries applied in construction process	5	lecture
Transportation	10	
Earthworks	13	

Bibliography ¹³ Lute Marina – Technology of Civil Works – Earthworks,

http://groups.yahoo.com/group/CCIA_THN/files/An%20III%20ICE/, 2011

Lute Marina - Technology of Civil Works - Concrete Works, http://groups.yahoo.com/group/CCIA_THN/files/An%20IV%20ICE/,

A.Trelea, ş.a.; Tehnologia construcțiilor; Editura Dacia; Cluj-Napoca, 1997

J.Domsa, V.Vescan, A.Moga; Tehnologia lucrărilor de construcții și tehnologii speciale; Editura Dacia, 1990

8.2 Applied activities ¹⁴	Number of hours	Teaching methods
Technology project for the infrastructure at a residential building		
Making infrastructure plans: the foundation plan, site plan, foundation		
details		
Removal of top soil	2	
Powered excavation works	4	
Management of earth transport from site	6	
Foundation tracing	6	
Foundation digging	4	
Concrete pouring in foundatins	6	

Bibliography ¹⁵ Marina Lute - Tehnologia lucrărilor de construcții și instalații - ghid de proiectare -vol.I, Ed. Politehnica, 2008 C169-1988 – Normativ privind executarea lucrarilor de terasamente pentru realizarea fundatiilor constructiilor civile si industriale GE 026-1997 - Ghid pentru executia compactarii in plan orizontal si inclinat a terasamentelor

NP 074-2007 - Normativ privind documentatiile geotehnice pentru constructii

NP120-06 - Normativ privind cerintele de proiectare si executie a excavatiilor adinci in zone urbane

P82-1986 – Instructiuni tehnice pentru proiectarea, executarea si intretinerea drumurilor de santier

NP124-2010 – Normativ privind proiectarea geotehnica a lucrarilor de sustinere

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

In order to assess the practical results of the discipline in the site visits are organized discussions with construction managers / representatives of companies manufacturing for debates on applied technology

10. Evaluation

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".

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

Type of activity	10.1 Evaluation criteria ¹⁶	10.2 Evaluation methods	10.3 Share of the final grade
10.4 Course	technological knowledge of all components required for a civil infrastructure construction	distributed activity – written papers in the weeks 5 and 10 of semester - one question from each chapter	50%
10.5 Applied activities	S:		
	L:		
	P ¹⁷ : Technology development project execution for a given building infrastructure	It contains two components: - test: design of a given technological process - project verbal expose	50%
	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)

- Course: Knowledge of schematic order for technological operations
- Project: applying correctly technological process in a certain situation

Date of completion	Course coordinator (signature)	Coordinator of applied activities (signature)
26.01.2018		
Head of Department	Date of approval in the Faculty	Dean
(signature)	Council 19	(signature)
	12.02.2018	

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.