

SYLLABUS ¹

1. Information about the program

1.1 Higher education institution	Politehnica University Timisoara
1.2 Faculty ² / Department ³	Faculty of Civil Engineering / Department of Management
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	Microeconomics / DF						
2.2 Coordinator (holder) of course activities	Prof. Anca DRAGHICI						
2.3 Coordinator (holder) of applied activities ⁶	Prof. Anca DRAGHICI						
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	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	1 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			1
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			
		hours of individual study after manual, course support, bibliography and notes			
		training seminars / laboratories, homework and papers, portfolios and essays			14
3.8 Total hours / week ¹⁰	5				
3.8* Total hours /semester	70				
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) ≥ 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. Prerequisites (where applicable)

4.1 Curriculum	• -
4.2 Competencies	• -

5. Conditions (where applicable)

5.1 of the course	• Amphitheatre, laptop and videoprojector
5.2 to conduct practical activities	• Seminar room, laptop and videoprojector, whiteboard and pen

6. Specific competencies acquired through this discipline

Specific competencies	<ul style="list-style-type: none"> • Understand and know the fundamental concepts of microeconomics in order to be potential entrepreneurs and/or investors
Professional competencies ascribed to the specific competencies	<ul style="list-style-type: none"> • Technological and economical design for the erection, operation and maintenance works in civil engineering, specific to graduated study programme • Organization and management of the execution, operation and maintenance procedures for civil, industrial and agricultural constructions
Transversal competencies ascribed to the specific competencies	<ul style="list-style-type: none"> • 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"> • The Microeconomics classes aim to explain economic knowledge and show the utility and usefulness of the economic perspective (decision making process based on the economic indicators calculation) related to the specifics of the civil engineering systems, companies; there is explained how productivity growth can take place in a company and the impact of costs reduction policies. Students will understand how pricing and market mechanisms work
7.2 Specific objectives	<ul style="list-style-type: none"> • Students of the technical profile will understand and know the fundamental concepts of microeconomics, that they will face in the future profession (as engineers and managers), such as: production (labor, capital); cost; productivity; labor income (wages); capital income (profits, interest); competition; market structures; supply-demand etc. • Course and applications aim to develop for students those cognitive (specific methods in economics) and professional skills/competencies (economic decision making to optimize results) in order to be potential entrepreneurs and/or investors

8. Content¹¹

8.1 Course	Number of hours	Teaching methods ¹²
Introduction to Microeconomics (Economics; Microeconomics; Macroeconomics (References for the course and seminars; evaluation/assessment explanations	3	PPT lecture presentations, discussions, explanations, examples, case studies
Utility of study; Normative & positive; Scarce resources; Market economy	3	
Firms definition and way of operation; Internal and external environment of companies; Entrepreneurship characteristics	4	
Production factors; Production costs; Relation between costs and profit; Breakeven point; Production factors productivity	4	
Supply and demand; Functions; Supply law; Supply elasticity	4	
Market and the competition; Market typology; Competition law and functions; Competition typology	4	
Price and market mechanism; Profit	3	
Wage and work productivity; Interest (definitions, indicators and factors of influence); Money (definition, typology and characteristics)	3	
<p>Bibliography¹³ Draghici A. Course notes (ppt with students notes as additional explanations and case studies) update each year A. Draghici (Foris), <i>Economia Firmei</i>, Ed. Editura OMNIA UNI SAST, Brasov, 2002; Duran V., <i>Microeconomie</i>, Ed. Eurostampa, Timisoara, 2003; Duran V., <i>Economia si gestiune firmei</i>, Ed. Eurostampa, Timisoara, 2005; Duran V., <i>Economie. Teorie si practică</i>, (vol. I, II), Ed. Eurostampa, Timisoara, 2007; Dobran M., <i>Bazele microeconomiei</i>, Editura Eurostampa, Timișoara, 2008; Barglazan D., <i>Microeconomie</i>, Editura Eurostampa, Timișoara, 2007&2008 Taylor J. B., <i>Principles of Microeconomics</i>, Houghton Mifflin, 1996; Byrns R. T., <i>Microeconomics</i>, Scott Foresman, 1989 Other open courses available each year (on Internet)</p>		
8.2 Applied activities ¹⁴	Number of hours	Teaching methods
Economic indicators. Marginal analysis	4	Problem solving, presentation of case studies, debates
Capital indicators. Work productivity. Capital efficiency	4	
Cost and profit (problems and case studies)	4	
Production costs. Depreciation of fix capital	4	
Profit. Price perspective (company vs. market perspective). Supply and	4	Problem solving,

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".

demand elasticity. Price elasticity		presentation of case studies, debates
Validations of the homework problems. Test on seminars topics	4	Evaluation test (examination). Homework check and validation
Homework essay presentation	4	Homework presentation (ppt), debates and analysis, peer-to-peer review
<p>Bibliography ¹⁵ Seminar notes and problems – examples and case studies, material that is up-date each year</p> <p>A. Draghici (Foris), <i>Economia Firmei</i>, Ed. Editura OMNIA UNI SAST, Brasov, 2002;</p> <p>Duran V., <i>Microeconomie</i>, Ed. Eurostampa, Timisoara, 2003;</p> <p>Duran V., <i>Economia si gestiune firmei</i>, Ed. Eurostampa, Timisoara, 2005;</p> <p>Duran V., <i>Economie. Teorie si practică</i>, (vol. I, II), Ed. Eurostampa, Timisoara, 2007;</p> <p>Dobran M., <i>Bazele microeconomiei</i>, Editura Eurostampa, Timișoara, 2008</p> <p>Barglazan D., <i>Microeconomie</i>, Editura Eurostampa, Timișoara, 2007&2008</p> <p>Taylor J. B., <i>Principles of Microeconomics</i>, Houghton Mifflin, 1996; Byrns R. T., <i>Microeconomics</i>, Scott Foresman, 1989</p> <p>Other open courses available each year (on Internet)</p>		

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

<ul style="list-style-type: none"> The course of Microeconomics is included in the engineering curricula of other universities as: MIT USA; Houston University; L'Ecole Polytechnique Paris; University of Glasgow; American University of Athens; L'Ecole Polytechnique du Lausanne, Singapore University of Technology and Design etc. The course content and its problematic is perfect aligned with the employees expectation because graduates will know the economic problems that are correlated with products/services manufacturing/delivery and technical systems exploitation
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10. Evaluation

Type of activity	10.1 Evaluation criteria ¹⁶	10.2 Evaluation methods	10.3 Share of the final grade
10.4 Course	8 questions regarding the theoretical aspects, issues presented and explain during the course classes	2 partial exams (distributed evaluation = 2 tests) in the week 6 and 11 of the semester. Each exam has a duration of 1 hour	60%
10.5 Applied activities	S: Problems homework and essay (including its ppt)	Problems homework assessment (conclusions and resoning) and homework essay evaluation	40%
	L:		

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.)

	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)			
<ul style="list-style-type: none"> • Examination of theoretical issues granted with 5, minimum 4 questions solve - COURSE • Homework problems and essay done (granted with 5) - SEMINAR 			

Date of completion

23.01.2018

**Head of Department
(signature)**

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**Course coordinator
(signature)**

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

12.02.2018

**Coordinator of applied activities
(signature)**

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**Dean
(signature)**

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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.