

FACULTY OF CHEMISTRY					
SUBJECT CARD					
Name of subject in English:	Economics and management				
Main field of study (if applicable):	Chemical and Process Engineering				
Specialization (if applicable):	Chemical Nanoengineering				
Profile:	academic				
Level and form of studies:	1st/2nd level, full-time				
Kind of subject:	obligatory				
Subject code:	ICC025008				
Group of courses:	NO				
	Lecture	Classes	Laboratory	Project	Seminar
Number of hours of organized classes in University (ZZU)	30	30			
Number of hours of total student workload (CNPS)	90	60			
Form of crediting	crediting with grade	crediting with grade			
For group of courses mark (X) final course					
Number of ECTS points	3	2			
including number of ECTS points for practical (P) classes		2			
including number of ECTS points for direct teacher-student contact (BK) classes	1	1			
PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCES					
none					
SUBJECT OBJECTIVES					
C1 . Acquiring the knowledge of basic notions, methods and tools in economics					
C2 . Acquiring the knowledge of basic notions, methods and tools in management					
SUBJECT EDUCATIONAL EFFECTS					
related to knowledge:					
After the course, the student:					
PEK_W01 – knows basic definitions in economics;					
PEK_W02 – knows basic definitions in management;					
related to skills:					
After the course, the student:					
PEK_U01 – is able to interpret financial information about organization;					
PEK_U02 – is able to make basic management decisions in organization on the basis of financial information;					
PEK_U03 – is able to define, plan and control the realization of projects;					
PEK_U04 – is able to make managerial decisions on the basis of mathematical models.					
related to social competences:					
After the course, the student:					
PEK_K01 – is able to discuss the current position and development possibilities of an organization;					
PEK_K02 – is able to present the arguments for selected managerial decisions.					

PROGRAMME CONTENT		
Lectures		Number of hours
Lec 1	Financial information – balance sheet	2
Lec 2	Financial information – revenues, expenditures, profit, cash flow	2
Lec 3	Managerial accounting – variable and fixed cost	2
Lec 4	Managerial accounting – breakeven point	2
Lec 5	Managerial accounting – direct and indirect cost	2
Lec 6	Managerial accounting – activity based costing	2
Lec 7	Investment decisions – NPV, IRR, PI	2
Lec 8	Mathematical models in managerial decisions	4
Lec 9	Project definition	2
Lec 10	Project planning	4
Lec 11	Project control	4
Lec 12	Budgeting	2
Total		30
Classes		Number of hours
Proj 1	Financial information – balance sheet	2
Proj 2	Financial information – revenues, expenditures, profit, cash flow	2
Proj 3	Managerial accounting – variable and fixed cost	2
Proj 4	Managerial accounting – breakeven point	2
Proj 5	Managerial accounting – direct and indirect cost	2
Proj 6	Managerial accounting – activity based costing	2
Proj 7	Investment decisions – NPV, IRR, PI	2
Proj 8	Mathematical models in managerial decisions	2
Proj 9	Project definition	2
Proj 10	Project planning	4
Proj 11	Project control	4
Proj 12	Budgeting	2
Proj 13	Risk management	2
Total		30
TEACHING TOOLS USED		
N1. Diaporama presentations N2. Computational examples (EXCEL) N3. Open discussion of managerial problems		

EVALUATION OF SUBJECT EDUCATIONAL EFFECTS ACHIEVEMENT		
Evaluation (F – forming (during semester), P – concluding (at semester end))	Educational effect number	Way of evaluating educational effect achievement
F	PEK_K01, PEK_K02	Continuous evaluation of participation in the discussions
P	PEK_W01, PEK_W02, PEK_U01, PEK_U02, PEK_U03, PEK_U04, PEK_U01	Test at the end of the semester: minimum 50% of points
PRIMARY AND SECONDARY LITERATURE		
<u>PRIMARY LITERATURE:</u>		
[1] J.K. Shim, J.G. Siegel, Theory and problems of financial accounting, The McGraw-Hill Companies, Inc., 1999 [2] J.K. Shim, J.G. Siegel, Managerial accounting, The McGraw-Hill Companies, Inc., 2012 [3] Project management, Vibrant Publishers, 2017		
<u>SECONDARY LITERATURE:</u>		
[1] C.F. Gray, Project Management, 6e, The McGraw-Hill Companies, Inc., 1999 [2] D.H. Marshall, A survey of accounting, Irwin Inc. 1983 [3] H.P. Williams, Model building in mathematical programming, John Wiley and Sons, 1999		
SUBJECT SUPERVISOR (NAME AND SURNAME, E-MAIL ADDRESS)		
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