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POLYTECHNIC OF ŠIBENIK

DEPARTMENT OF MANAGEMENT SPECIALIST STUDY MANAGEMENT

Erasmus+ Course Catalogue

Academic year 2021-2022

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Šibenik, April 2021

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Cost managemet	
Intellectual property and information systems	
Economics of information systems and software	
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Psychology for managers	44

Course list

Professor	Component code	Component code Course	
Beljo I.	146563	Financial Mathematics	6
Mečev D.	B-70	Principles of Ecomonics	6
Radić Lakoš T.	202205	Enviromental Management in Tourism	4
Sladoljev J.	201943	Hotel Organization and reception Operations	6
Šišara J.	187571	Marketing in Tourism	6
Crnica G.	129813	Businss English I	3
Perišić A.	140751	Business Statistics	6
Sladoljev J.	142629	Tourist Destination Management	
Sladoljev J.	140742	Management	6
Mečev D.	BO36	Public Sector Economy	4
Radić Lakoš T.	NC01	Use of DDD and HACCP in hotel industy	3
Vukičević A.	NC02	Business Organization	6
Gaćina N.	187576	Nutrition in Tourism	4
Gaćina N.	NC03	Food Safety inTourism	3
Crnica G.	129818	Business German I	3
Crnica G.	129818	18 Business German II	
Crnica G.	140746	Business German III	3
Crnica G.	140746	Business German IV	3

Full Course Curriculums

1. GENERAL INFORMATION									
1.1. Course lecturer	Ana Perišić	1.8. Course code in ISVU	130477						
1.2. Course title	Statistics 1.9. Course code in MOZVAG								
1.3. Assistants and/or associates		1.10. Forms of teaching (number of hours Lecturing +Practical exercises + Seminars + e learning)	(45+30+0+0)						
1.4. Study programme (specialist, undergraduate, graduate)	Graduate Study Programme Management	1.11. Level of e- learning application (1 st , 2 nd , 3 rd level), percentage of on line course performance (max. 20%)	1 st , course materials are on-line, 0%						
1.5. Course status (obligatory, optional)	Obligatory	1.12. Number of course revisions	3.						
1.6. Year of study	1st	st 1.13. Modernization							
1.7. Credit score (ECTS)	6	Less than 20%X□More than 20 %□							
2. COURSE DESCRIPTION									
2.1. Course objectives	Provide theoretical and practical kno	wledge which enables students to develop and apply acquired skills	for economic-statistical analysis.						
2.2. Terms of course entry and required competences	4 year secondary education complete	d; qualification level 4.2 according to the CROQF.							
2.3. Learning outcomes on the study programme level	LO 4: To analyze and interpret key l and tactics of innovation in business. LO 5: To use probabilistic models for conduct tests and basic statistical ana LO 7: To apply and valorize qualitati program support LO 10: To select a research method,	LO 4: To analyze and interpret key business trends and innovations in the micro and macro business environment and propose innovative solutions and tactics of innovation in business. LO 5: To use probabilistic models for different discrete and continuous stochastic phenomena, assess population parameters, set statistical hypotheses, conduct tests and basic statistical analyses with support of computer tools LO 7: To apply and valorize qualitative and quantitative methods of business decision-making in solving economic and managerial problems through program support LO 10: To select a research method, conduct market research and interpret the results of the research carried out							
2.4. Expected learning outcomes on the course level	Learning outcomes according to the Bloom's taxonomy: (up to two verbs per LO) Learning outcomes according to the Bloom's taxonomy: (up to two verbs per LO) Learning outcomes according to the Bloom's taxonomy: (up to two verbs per LO) Learning outcomes according to the Bloom's taxonomy: (up to two verbs per LO) Learning outcomes according to the Bloom's taxonomy: (up to two verbs per LO) Learning outcomes according to the Bloom's taxonomy: (up to two verbs per LO) Learning outcomes according to the Bloom's taxonomy: (up to two verbs per LO) Learning outcomes according to the Bloom's taxonomy: (up to two verbs per LO) Learning outcomes according to the Bloom's taxonomy: (up to two verbs per LO) Learning outcomes according to the Bloom's taxonomy: (up to two verbs per LO) Learning outcomes according to the Bloom's taxonomy: (up to two verbs per LO) Learning outcomes according to the Bloom's taxonomy: (up to two verbs per LO) Learning outcomes according to the Bloom's taxonomy: (up to two verbs per LO) Learning outcomes according to the Bloom's taxonomy: (up to two verbs per LO) Learning outcomes according to the Bloom's taxonomy: (up to two verbs per LO) Learning outcomes according to the Bloom's taxonomy: (up to two verbs per LO) Learning outcomes according to the Bloom's taxonomy: (up to two verbs per LO) Learning outcomes according to the Bloom's taxonomy: (up to two verbs per LO) Learning outcomes according to the Bloom's taxonomy: (up to two verbs per LO) Learning outcomes according to the Bloom's taxonomy: (up to two verbs per LO) Learning outcomes according to the Bloom's taxonomy: (up to two verbs per LO) Learning outcomes according to the Bloom's taxonomy: (up to two verbs per LO) Learning outcomes according to the Bloom's taxonomy: (up to two verbs per LO) Learning outcomes according taxonomy: (up to two verbs per LO) Learning outcomes according taxonomy: (up to two verbs per LO) Learning outcomes according taxonomy: (up to two verbs per LO) Learning outcomes according taxonomy: (up to twerbs per LO) Lea								

						5-evalu 6-synth	ation, esis					
	1. T	0 Synth	6.4									
	2. T	o explain basic concepts and to solve basic problem	ns in the field o	f probability theory.	,		2.3	\square				
	3. T	o select and apply probability models for different	discrete and con	ntinuous stochastic phenomena			5.3	\square				
	4. T	o estimate population parameters (point and interv	al estimates) and	d derive conclusions about the population			5.4	\square				
	5. T	o set the statistical hypothesis, conduct the statistic	al test and deriv	e conclusions about the population			6.5.3.4	+				
	6. T	6. To perform correlation and regression analysis, to comment the results and to draw a conclusion about the relationship between variables										
	Constructive allignement											
	no	Thematic unit	LO of the course	Content/teaching methods	Evaluation		Time					
		Introduction into the course and detailed plan.	-	Attending lectures. Familiarize with course content, e-learning documents, literature and students' obligations.			1 h					
	1.	Data collection. Exploratory analysis. Population, sample, variable, parameters.		oject out basic ential) for	4h 7 h							
2.5. Course content according to	2.	Descriptive statistics. Measures of central tendency, measures of dispersion, asymmetry measures, kurtosis, standardized values, Chebyshev's rule.	1	Attending lectures. Actively involving students through problem solving and discussion.	Students will independently prepare a pro where they will have to prepare and carry statistical analysis (exploratory and infere business problems by using MS Excel.	oject 7 out basic ential) for	5h 7h					
detailed curriculum schedule	3.	Sample space. Probability. Probability space. Conditional probability. The law of total probability	2	Attending lectures. Actively involving students through problem solving and discussion.	Students will explain basic concepts and a basic problems in the field of probability through colloquia or written/oral exams.	solve theory	5h 7h					
	4.	Sample space. Probability space. Probability. Conditional probability. The law of total probability	2	Attending lectures. Actively involving students through problem solving and discussion.	Students will explain basic concepts and basic problems in the field of probability through colloquia or written/oral exams.	solve theory	5h 7h					
	5.	Random variable. Discrete and continuous distributions. Expectation, variance. Discrete random variables and their applications. Binomial, Poisson, hypergeometric and uniform distribution.	3	Attending lectures. Actively involving students through problem solving and discussion.	Students will select and apply probability for different discrete and continuous stocl phenomena through colloquia or written/o exams.	r models hastic oral	5h 7h					
	6.	Continuous distribution. Gaussian distribution.	Students will select and apply probability for different discrete and continuous stocl	models hastic	5h 7h							

Image: space of the s							
Two-dimensional random variable. Marginal distribution. Independence. Conditional distribution. Covariance. Exam preparation. 2.3.6 Attoding betters. Actively involving addents from problem solving and discussion. Exam preparation. Students will explain basic correpts and order matched of probleming addents from problem solving and discussion. Exam preparation. Students will explain basic correpts and order preparation. 5.1 8. Sampling. Sampling distribution for the sample mean, proportion and variance. 4 Attending between. Actively involving addents from problem solving and discussion. Exam preparation. 5.1 9. Sampling. Sampling distribution for the sample mean, proportion and variance. 4 Attending between. Actively involving audents from problem solving and discussion. Students will estimate population parameters (point and interval estimate) and derive conclusions and discussion. 5.1 10. Students will estimate population through colloquin or tractic variance. 5.1 11. Hypothesis testing. Hypothesis testing. In the example population means, proportion, and interval estinuel estimate population parameters. (Point andiscussion.					phenomena through colloquia or written/oral exams.		
8. Sampling, Sampling distribution for the sample mean, proportion and variance. 4 Attending lectures. Actively involving atudents through problem solving and discussion. Sudduts will estimate population parameters (point and interval estimates) and derive conclusions about the population through colloquia or writen/oral exams. Sh 7h 9. Sampling. Sampling distribution for the sample mean, proportion and proportion and standard deviation. Confidence intervals. 4 Attending lectures. Actively involving statents through problem solving and discussion. Sudduts will estimate population parameters (point and interval estimate) and derive conclusions about the population through colloquia or writen/oral exams. Sh 7h 10. Hypothesis testing. Sample size, significance level. Hypothesis testing for the mean proportion, variance. 5 Attending lectures. Actively involving adiscussion. Students will set the statistical hypothesis, conduct the statistical hypothesis, conduct the statistical hypothesis, conduct the statistical hypothesis, conduct the students through problem solving and discussion. Students will set the statistical hypothesis, conduct the statistical hypothesis, conduct the statistical stat and derive conclusions about the population through colloquia or writer/oral exams. Sh 7h 11. testing. Comparing population parameters. Hypothesis testing. Comparing population means, proportions. 4, 5 Attending lectures. Actively involving and discussion. Sh 7h </th <th>7.</th> <th>Two-dimensional random variable. Marginal distribution. Independence. Conditional distribution. Covariance. Correlation coefficient. Exam preparation.</th> <th>2,3,6</th> <th>Attending lectures. Actively involving students through problem solving and discussion. Group problem solving and discussion. Exam preparation.</th> <th>Students will explain basic concepts and solve basic problems in the field of probability theory, they will select and apply probability models for different discrete and continuous stochastic phenomena through colloquia or written/oral exams. As a part of their practical project, students will perform correlation and regression analysis, comment the results and draw a conclusion about the relationship between variables.</th> <th>5h 7h</th> <th></th>	7.	Two-dimensional random variable. Marginal distribution. Independence. Conditional distribution. Covariance. Correlation coefficient. Exam preparation.	2,3,6	Attending lectures. Actively involving students through problem solving and discussion. Group problem solving and discussion. Exam preparation.	Students will explain basic concepts and solve basic problems in the field of probability theory, they will select and apply probability models for different discrete and continuous stochastic phenomena through colloquia or written/oral exams. As a part of their practical project, students will perform correlation and regression analysis, comment the results and draw a conclusion about the relationship between variables.	5h 7h	
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10. Hypothesis testing. Sample size, significance level. Hypothesis testing for the mean proportion, variance. 5 Attending lectures. Actively involving students through problem solving and discussion. Students will set the statistical hypothesis, conduct the statistical test and derive conclusions about the population through colloquia or written/oral exams. Students will set the statistical hypothesis, conduct the statistical hypothesis, conduct the statistical test and derive conclusions about the population through colloquia or written/oral exams. Students will set the statistical hypothesis, conduct the statistical hypothesis, conduct the statistical test and derive conclusions about the population through colloquia or written/oral exams. Students will set the statistical hypothesis, conduct the statistical hypothesis, conduct the statistical test and derive conclusions about the population through colloquia or written/oral exams. Students will estimate population parameters (point and interval estimates) and derive conclusions about the population and set the statistical hypothesis, conduct the statistical test and derive conclusions about the population through colloquia or written/oral exams. 12. Comparing population parameters. Hypothesis testing. Comparing population means, proportions. 4, 5 Attending lectures. Actively involving students through problem solving and discussion. Students will estimate population parameters (point and interval estimates) and derive conclusions about the population through colloquia or written/oral exams. Sh 13. Comparing population parameters. Hypothesis testing. Comparing population means, proportions. 4, 5 Attending lectures. Actively i	9.	Sampling. Sampling distribution for the sample mean, proportion and variance. Estimating the mean, proportion and standard deviation. Confidence intervals.	4	Attending lectures. Actively involving students through problem solving and discussion.	Students will estimate population parameters (point and interval estimates) and derive conclusions about the population through colloquia or written/oral exams.	5h 7h	
11.Hypothesis testing. Hypothesis testing for the mean proportion, variance.5Attending lectures. Actively involving students through problem solving and discussion.Students will set the statistical hypothesis, conduct the statistical test and derive conclusions about the population through colloquia or written/oral exams.5h 7h12.Comparing population parameters. Hypothesis testing. Comparing population means, proportions.4, 5Attending lectures. Actively involving students through problem solving and discussion.Students will estimate population parameters (point adust the population and set the statistical hypothesis, conduct the statistical est and derive conduct the statistical est and derive conduct the statistical test and derive conduct the statistical test and derive conduct the statistical est and derive conclusions about the population parameters (point and interval estimates) and derive conclusions about the population arameters (point and interval estimates) and derive conclusions about the statistical about the population and set the statistical should estimate population parameters (point and interval estimates) and derive conclusions about the population and set the statistical about the population and set the statistical should estimate population and set the statistical about the population and set the stati	10.	Hypothesis testing. Sample size, significance level. Hypothesis testing for the mean proportion, variance.	5	Attending lectures. Actively involving students through problem solving and discussion.	Students will set the statistical hypothesis, conduct the statistical test and derive conclusions about the population through colloquia or written/oral exams.	5h 7h	
12.Comparing population parameters. Hypothesis testing. Comparing population means, proportions.4, 5Attending lectures. Actively involving students through problem solving and discussion.Students will estimate population parameters (point and interval estimates) and derive conclusions about the population and set the statistical testing. Comparing population parameters. Hypothesis testing. Comparing population parameters. Hypothesis testing. Comparing population parameters. Hypothesis testing. Comparing population means, proportions.4, 5Attending lectures. Actively involving students through problem solving and discussion.Students will estimate population parameters (point and interval estimates) and derive conclusions about the population through colloquia or written/oral exams.5h 7h13.Comparing population parameters. Hypothesis testing. Comparing population means, proportions.4, 5Attending lectures. Actively involving students through problem solving and discussion.Students will estimate population parameters (point and interval estimates) and derive conclusions about the population parameters (point and interval estimates) and derive conclusions about the population means, and interval estimates) and derive conclusions about the population means, about the population means, proportions.5h 7h	11.	Hypothesis testing. Hypothesis testing for the mean proportion, variance.	5	Attending lectures. Actively involving students through problem solving and discussion.	Students will set the statistical hypothesis, conduct the statistical test and derive conclusions about the population through colloquia or written/oral exams.	5h 7h	
13.Comparing population parameters. Hypothesis testing. Comparing population means, proportions.4, 5Attending lectures. Actively involving students through problem solving and discussion.Students will estimate population parameters (point and interval estimates) and derive conclusions about the population and set the statistical hypothesis, conduct the statistical test and derive conclusions about the population through colloquia5h 7h	12.	Comparing population parameters. Hypothesis testing. Comparing population means, proportions.	4, 5	Attending lectures. Actively involving students through problem solving and discussion.	Students will estimate population parameters (point and interval estimates) and derive conclusions about the population and set the statistical hypothesis, conduct the statistical test and derive conclusions about the population through colloquia or written/oral exams.	5h 7h	
	13.	Comparing population parameters. Hypothesis testing. Comparing population means, proportions.	4, 5	Attending lectures. Actively involving students through problem solving and discussion.	Students will estimate population parameters (point and interval estimates) and derive conclusions about the population and set the statistical hypothesis, conduct the statistical test and derive conclusions about the population through colloquia or written/oral exams.	5h 7h	

	14.	Non-parame	tric tests	5	Attending led students thro discussion. G and discussio	ctures. Actively involving ugh problem solving and froup problem solving n. Exam preparation.	Students will set the statistical the statistical test and derive co population through colloquia or	hypothesis, conduct nclusions about the r written/oral exams.	5h 7h	
	15.	5. Final conclusions. Exam preparation.		6	Attending lec students thro discussion. C and discussio	ctures. Actively involving ugh problem solving and iroup problem solving n. Exam preparation.	As a part of their practical proj written/oral exam, students wil and regression analysis, comme draw a conclusion about the rel variables.	As a part of their practical project or through written/oral exam, students will perform correlation and regression analysis, comment the results and draw a conclusion about the relationship between variables.		
3. EVALUATION OF STUDENTS' WORK										
 3.1. Students' obligations In accordance with the Regulations on Studying and the Regulations on Student Assessment and Evaluation: for all full-time students attendance of least 70%. Part-time students are required to attend classes at least 50%. All students are required to carry calculator and formulae list. Students who have during the course achieved: from 0 - 24,9% ECTS credits- are rated F (unsuccessful) and cannot obtain ECTS credits, and must re-enroll in the next academic year; from 25 - 49,9% - are assessed by FX (insufficient) and must pass the written exam (test). Written exam (test) can be held in a regular or extraordinary exam period; more than 50% - students have the right to take the final exam. Students can take the final exam from the course in two ways: a) during the course of teaching through continuous monitoring of students (active participation in classes and through two colloquia); b) by passing the exam (written and oral part of the exam). Students will prepare a project when the function of the exam of the exam. 									ndance of at c year; a regular or lents (active roject where	
	Attendar	nce	0,3	Written exa	m	3,5 (without colloqu	ia) Project	1		
3.2. Monitoring student work (enter	Experim	ental work		Research			Practical work			
the share of ECTS credits for each activity so that the total number of ECTS points corresponds to the	Essay			Report			Continuous examination	0,5		
credit score of the course)	Colloqui	ium	3,5 (without written exam)	Seminar pap	ber		Other			
	Class act	tivity	0,2	Oral exam		0,5	Other			
3.3. Student workload	Student 1. 2.	 Student workload on all bases for 1 ECTS credit is 30 hours in a semester and is estimated as: 1. Attending classes and exercises 75 hours 2. Preparing colloquia or exams through individual work105 hours 								
4. GRADING SYSTEM										
4.1. Grading seminar papers										

	U	nsatisfactory	Above average							
4.2. Grading colloquia/ written and oral exam	Responds by me understanding. I basic terms and how to apply or course with exam	emory, without a deeper Does not know or apply concepts. Does not know explain the contents of the nples.	he level of analysis, synthesis ciples, accurately and thorougl erial, and logically connects a ts supported with examples. Fi y given. Notes correlations with	and evaluation. hly explains the nd explains the nds solutions that th related						
4.3. Final grade according to evaluation elements	During the seme to the oral exam did not pass at 1 students need to business probler oral exam, their	Iring the semester, students have the possibility to partially take written exams through colloquia (twice during the semester). In order to have access the oral exam, students need to achieve at least 50% on each colloquium. Also, students have a possibility to retake one colloquium. Students when a not pass at least one colloquia (or retaken colloquia) need to take part in the written exam. In this case, in order to have access to the oral exam idents need to achieve at least 50% on written exam. Students will prepare a project where they will independently carry out statistical analysis for siness problems by using MS Excel. The final grade is formed after the oral exam by aggregating scores achieved through the written exam/colloqui al exam, their project and during classes.								
4.3. Final grade according to absolute division	$ \begin{array}{ c c c } \hline Percentage of acquired knowledge, skills and competences (teaching + final exam) \\ \hline 90 - 100\% & 5 (excellent) & A \\ \hline 90 - 89,9\% & 4 (very good) & B \\ \hline 65 - 79,9\% & 3 (good) & C \\ \hline 60 - 64,9\% & 2 (satisfactory) & D \\ \hline \end{array} $									
5. ADDITIONAL COURSE INFO	RMATION									
			Title			Number of copies in the library	Availability via other media			
5.1. Compulsory literature (available in the library and via other media)	Šošić I., Primije Patrick R. McM Veleučilište u Š	njena statistika, Školska kr ullen, Poslovna statistika z ibeniku, 2017	12	No Yes						
5.2. Additional literature (at the moment of changes and/or amended of study programme)	Azcel A. Sound Newbold P., Sta Čižmešija M., K Dumičić K., Bal Excel manuals Teaching materi	Azcel A. Sounderpandian J., Complete Business Statistics, McGraw Hill, 2009. Newbold P., Statistics for Buisness and Economics , Englewood Cliffs: Prentice Hall , 1997 Čižmešija M., Kurnoga Živadinović N., Zbirka riješenih zadataka iz osnova statistike,Mirorad d.o.o., Zagreb,2006 Dumičić K., Bahovec V., Poslovna Statistika, Element, Zagreb, 2011. Excel manuals Teaching materials								

	The control of students' work quality and the acquisition of necessary knowledge and skills will be ensured through interactive work. By keeping track
5.2 Quality assurance methods that	of attendance and student activity during classes and provided information on students' progress through short colloquiums and homework, information
ansure the acquisition of	for further guidance to students will be provided in order to increase the efficiency of their work. Students will be informed about their rights and
knowledge skills and competences	obligations as well as the methods of work and the required literature.
knowledge, skins and competences	Indicators of quality assurance system: Student survey, monitoring of annual data from the Croatian employment service on the annual state of student
	employment, surveys from employers and Alumni association.
	It is the responsibility of each student to be regularly informed about the course, the coursework, and the classroom activities. All notices of classes or
5.4 Informing about the course and	possible adjournment will be published in a timely manner on the e-learning site of the course and on the website of the Polytechnic. Students can
contacting the teacher	contact teachers during the consultation period (at least one hour per week), while for short questions and explanations they can be contacted during
	class. It is also possible to ask questions by e-mail (from the official e-mail address at @ vus.hr), which will be answered as soon as possible (no later
	than five working days after receiving the e-mail).

1. GENERAL INFORMATION										
1.1. Course lecturer	Želimir Mikulić	6								
1.2. Course title	Business simulations1.8. Forms of teaching (number of hours Lecturing +Practical exercises + Seminars + e learning)45 L + 30 PE									
1.3. Assistants and/or associates	-	1.9. Level of e- learning application (1st, 2nd, 3rd level), percentage of on line course performance (max. 20%)1								
1.4. Study programme (specialist, undergraduate, graduate)	Specialist professional graduate	1.10. Number of course revisions								
1.5. Course status (obligatory, optional)	Obligatory	1.11. Modernization	X							
1.6. Year of study	2.	Less than 20%□More than 20 %□								
2. COURSE DESCRIPTION										
2.1. Course objectives	The course is designed to introduce s Simulation modeling allows the creat performance of business processes.	students with simulation modeling and its application in analyzing a ation of dynamic business processes modeling, perform simulation	nd shaping business processes. experiments with the model and evaluate the							
2.2. Terms of course entry and required competences	Completed Statistics and Quantitativ	e methods for business decision-making Collegium								
2.3. Learning outcomes on the study programme level	To individually and responsibly search relevant literature for reaching solutions and conclusions. Use probabilistic models for various discrete and continuous stochastic phenomena, to estimate population parameters, set up a statistical hypothesis test and implement basic statistical analysis with the support of computer tools. Implement and evaluate the qualitative and quantitative methods for business decision-making in solving economic and managerial problems using software support. Interpret the process and modeling principle, choose discrete simulation from input data, and create and apply a simulation model using Sigma and Arena software packages, and tools such as Excell and ExpertFit. Identify various problems and risks in modern management and management and propose adequate solutions for identified problems and risk management mechanisms based on the analysis of the state of the company.									
2.4. Expected learning outcomes on the course level	Students knows and classifies simula Students are able to develop a discre For the collected input data using a c	tion systems as Monte Carlo, discrete, continuous or mixed. te simulation model for a given process or system and analyze its lir ustom tool (ExpertFit and Excel),student will select appropriate dist	nitations. tribution.							

	For ev They v presen In the Using Analyz By des	For event driven processes or systems, they will identify system states, variables and events and examine the model in Sigma Programming Tool. They will be able to build a diagram of the system/process in the programming tool Arena and recommend parameters for performing simulations and present outputs. In the program tool Excel, for the purpose of behavioral analysis, will design simulation financial models with Monte Carlo simulations. Using output graphs (Excel) and animation (Arena) will be able to present output results. Analyze output outcomes, identify patterns, predict risks, and suggest optimal choice of parameters / decisions to manage business systems. By designing and implementing simulation models, it will be able to review existing solutions, evaluate proposed alternatives, and propose solutions.											
	LEC	LECTURES EXERCISES/LABS											
	Week	Hour	Theme	Week	Hour	Theme							
	1	3	Introduction lecture, the basic idea of simulation. Construction of simulation models.	1	2	Introduction							
	2	3	Construction of simulation models. Types of simulation.	2	2	Case study: Production Management							
	3	3	Discrete and continuous simulations	3	2	Probability							
	4	3	Strategy of performing simulation models on a computer	4	2	Random variables and their generation							
	5 3		Conceptual simulation models, system event graphs	5	2	Input data analysis: estimation of distribution parameters							
	6	3	Sigma simulation software	6	2	Use SIGMA to perform simulations on the event graph model							
2.5. Course content according to detailed curriculum schedule	7	3	Modeling of simple system graphs of events	7	2	Use SIGMA to perform simulations on the event graph model							
	8	3	Basic elements of probability and statistics, generation and analysis of input data samples	8	2	Presentation of business simulation team papers							
	9	3	Modeling of complex systems graph events. Specialized simulation packages.	9	2	ARENA simulation software							
	10	3	Arena simulation software. Using animations.	10	2	ARENA simulation software							
	11	3	Modeling of complex systems in the Arena	11	2	Simulations in Excel							
	12	3	Ability to use the MS Excel program package to perform simulations.	12	2	Scenario, What-if Analysis, Monte Carlo simulations, Risk Analysis in Excel							
	13	3	Ability to use the MS Excel program package to perform simulations.	13	2	Presentation of business simulation team projects							
	14	3	Planning of performing and analyzing the output of simulation experiments.	14	2	Presentation of business simulation individual projects							

	15	3	System dy	namics.		15	2	Presentation o	f business simulation in	ndivid	ual projects
2.6. Teaching methods	x lectures x independent tasks 2.7. Comments: seminars and workshops multimedia and network x laboratory distance education mentoring other								s:		
2.8. Students' obligations	Minima allowed It is stro students (zelimin students etc.	linimal attendance for full-time students is 70% of all lectures and exercises. Students who do not satisfy minimal attendance condition will not be lowed to the exam. Part time students can supplement attendance with regular consultations with lecturer on the be-weekly basis. is strongly recommended that students take active part during lectures (in discussions, readings, rising questions, problem solving etc.) Part time udents who will not be able to attend lectures regularly should contact lecturer in advance during consultation hours or via e-mail <u>relimir.mikulic@vus.hr</u>). It is duty of a student to inform itself about lectures on the daily basis. Notifications about possible changes will be sent to udents via e-mail and posted on the web page of course e-learning site, together with all information about course, learning materials, assignments tc.									
	Attendance 1,5			Written exam		P		Project	2		
2.9. Monitoring student work (enter	Experimental work			Research	0,5	0,5 I		Practical work	1,5		
activity so that the total number of	Essay			Report			C e	Continuous xamination			
credit score of the course)	Colloquium			Seminar paper	0,4		C	Other			
	Class ad	ctivity			Oral exam	0,1		(Other		
2.10. Grading and evaluating students' work during classes and on the exam	Student are mad softwar an oral	s' activ le. Proj e packa exam to	ity in lecture ects are perfo ages. Student ests the knov	s are monitored ormed in the Ex s are performing ledge of using	students team up a seminar cel program package using and presenting the projects the MS Excel to create and	(case s Palisac with th analyz	study) th le Decis neir tear re simula	at they represent ion Tools packa n, and individual ation studies.	and defend. In addition ges and educational ver ly defending them on th	n, three rsions ne oral	e simulation projects of Sigma and Arena exam. Additionally,
					Title				Number of copies the library	s in	Availability via other media
2.11. Compulsory literature (available in the library and via other media)	LAW, A	Averill	M., Simulati	on Modeling ar	d Analysis, 4th ad., McGro	ow Hill	, 2007		1		Yes
	VERSC	CHUUR	REN, Gerard	Excel Simulati	ons, Holy Macro, 2014				1		Yes

	ČERIĆ, Vlatko, Simulacijsko modeliranje, Školska knjiga, Zagreb 1993.	5	No
	KELTON, D.W., SADOWSKY R.P., SADOWSKY, D., Simulation with Arena, 2nd McGrow Hill 2003	1	Yes
2.12. Additional litearature (at the moment of changes and/or amended of study programme)	LAGUNA, M., MARKLUND, J., Business Process Modelling, Simulation and Design, Prentice Hall, 2004. ROSS, Sheldon m., Simulation, 4th ed., Elsevier, 2006	1	No No
2.13. Quality assurance methods that ensure the acquisition of knowledge, skills and competences	The control of students' work quality and the acquisition of necessary knowledge and skills will be ensu track of attendance and student activity during classes and provided information on students' progress t information for further guidance to students will be provided in order to increase the efficiency of their rights and obligations as well as the methods of work and the required literature. Indicators of quality assurance system: Student survey, monitoring of annual data from the Croatian em- employment, surveys from employers and Alumni association.	ured through interactive w hrough short colloquiums work. Students will be inf ployment service on the ar	ork. By keeping and homework, formed about their nual state of student

2. GENERAL	INFORMATION		
1.1. Course lecturer	Anita Grubišić	1.8. Course code in ISVU	
1.2. Course title	Cost managemet	1.9. Course code in MOZVAG	
1.3. Assistants and/or associates	Guest lecturers	1.10. Forms of teaching (number of hours Lecturing +Practical exercises + Seminars + e learning)	30 P + 15 P
1.4. Study programme (specialist, undergraduate, graduate)	Specialisr graduate	2.10.1.11. Level of e- learning application (1 st , 2 nd , 3 rd level), percentage of on line course performance (max. 20%)	1 st , course materials are on-line, 0%
1.5. Course status (obligatory, optional)	Optional	2.11.1.12. Number of course revisions	2
1.6. Year of study	1	1.13. Modernization	Yes
1.7. Credit score (ECTS)	4	1.14. Percentage estimate of course changes and/or supplements	Less than 20%X□More than 20 %□
2. COURSE DES	SCRIPTION		
2.1. Course objectives	Cost management in enterprises, cost schedule and carrie	ers, and recording costs and expenditures by classic and contempora	ry methods of calculation.
2.2. Terms of course entry and required competences	No conditions		
2.3. Learning outcomes on the study programme level	To individually and responsibly search relevant To analyze business environment, distinguish th To analyze and interpret key business trends a innovation in business To apply and valorize qualitative and quantitati To suggest decisions on production, operations,	Ilterature for reaching solutions and conclusions in Croatian and for the company's competitive advantages and propose different business and innovations in the micro and macro business environment and we methods of business decision-making in solving economic and m , flows, capacities, costs and processes using analysis and monitoring	reign languages. s strategies to achieve the company's goals propose innovative solutions and tactics of anagerial problems through program support g of achieved indicators and results

2.4. Expected	Learni	ng outcomes accroding to the Bloom`s taxono		Level of LO: 1- remembering, 2- understanding, 3- application, 4-analysis, 5-evaluation, 6-synthesis			
outcomes on the course level	Evaluate Explain l Understa Understa Analyze Compare Understa	how managers use accounting information to create value now the costs are presented in the financial statements. and the assumptions and limitations of CVP analysis. nd the reasons for the estimation of fixed and variable cost nd Ethical Issues in Business Costs. the accounting choice between FIFO, LIFO and weighted the cost of products based on activities with traditional m nd the role of the budget in the organization's overall plans		4,5 4,5 3,4 5,6			
	Numb er Thematic unit I		LO of the course	Content/teaching method	Evaluation		Duration
	16.Introductory lecture. Place, role, content, function of managerial accounting.1		1,2,3,4	They listen to a lecture and read literature. They work on their own and in team workouts.	On the written and oral exam they define the basis of internal calculation.		8
	Education for Accounting17.Profession.Informatization of internal calculation.1,		1,2,3,4	They listen to a lecture and read literature. They work on their own and in team workouts.	In the written and distinguish between	8	
2.5. Course content according to	18.	Costs. Cost classification.	1,2,3,4	They listen to a lecture and read literature. They work on their own and in team workouts.	In the written and or and evaluate the cost monitoring the costs	8	
detailed curriculum schedule	19.	Accounting cost tracking.	1,2,3,4	They listen to a lecture and read literature. They work on their own and in team workouts.	In the written and or cost calculation.	al exam they know how to apply	8
Senedule	20.	Costs in internal accounting.	4,5,6	They listen to a lecture and read literature. They work on their own and in team workouts.	In the written and c evaluate and synthes modern cost calculat	bral exam they know how to bize the features of classic and bions.	8
-	21.	Particularities of classical and modern cost accounting.	4,5,6,	They listen to a lecture and read literature. They work on their own and in team workouts.	On the written and o evaluate and synthes methods on business	ral exam they know how to ize the impact of inventory results.	8
	22.	Influence of inventory conversion method to business result	4,5,6	They listen to a lecture and read literature. They work on their own and in team workouts.	In the written and or and synthesize the b	8	

23.	Contents and design of a company's business plan.	4,5,6	They listen to a lecture and read literature. They work on their own and in team workouts.	In both the written and oral exam, they can evaluate and synthesize accountability accounting and flexible budgeting.	8
24.	Accountability and Flexible Budgeting.	4,5,6	They listen to a lecture and read literature. They work on their own and in team workouts.	They are able to evaluate and synthesize transfer prices and their implications in written and oral examinations.	8
Accounting standards and reporting harmonization. Transfer prices and their accounting and tax implications.4,5,		4,5,6,	They listen to a lecture and read literature. They work on their own and in team workouts.	.In the written and oral exam they know how to evaluate and synthesize cash flow management as a basis for short-term business decision-making.	8
26.	nformation base for short-term business decision-making. Cash flow management.	4,5,6	They listen to a lecture and read literature. They work on their own and in team workouts.	On the written and oral exam they know how to evaluate and synthesize strategic accounting instruments.	8
27.	Strategic Accounting. Instruments of strategic accounting.	4,5,6,	They listen to a lecture and read literature. They work on their own and in team workouts.	In the written and oral exam they know how to evaluate and synthesize information for long-term business decision-making.	8
28.	Information base of long-term business decision-making.	4,5,6,	They listen to a lecture and read literature. They work on their own and in team workouts.	In the written and oral exam they know how to evaluate and synthesize public sector management accounting.	8
29.	Public sector management accounting.	4,5,6,	They listen to a lecture and read literature. They work on their own and in team workouts.	In the written and oral exam they know how to evaluate and synthesize the application of cost management to the overall business of the company.	8
30.	Repetition. Exam instructions. Signatures.	4,5,6,	They listen to a lecture and read literature. They work on their own and in team workouts.	In the written and oral exam, they know how to synthesize and evaluate - cost management methods, for example in practice.	8

3. EVALUATION OF STUDENTS' WORK

3.1. Students` obligations	Attendance (in accordance with the Rulebook on Studying) and the preparation of homework assignments are required for signature.										
3.2. Monitoring student work	Attendance	1	Written exam		Project						
(enter the share of ECTS credits	Experimental work		Research		Practical work						
for each activity so that the total	Essay		Report		Continuous examination	1					
number of ECTS points	Colloquium		Seminar paper	1	Other						
corresponds to the credit score of the course)	Class activity	0,5	Oral exam	1	Otheer						

3.3. Student workload	Student Student workload on all bases for 1 ECTS credit is 30 hours in a semester and is estimated as: Student 3. Attending classes and exercises 45 hours 4. Preparing colloquia or exams through individual work 75 hours												
4. GRADING SY	STEM												
4.1. Grading seminar papers	-												
	U	Insatisfactory			Satisfactory			Above average					
4.2. Grading colloquia/ written and oral exam	Responds by memory, without a deeper understanding. Does not know or apply basic terms and concepts. Does not know how to apply or explain the contents of the course with examples.			Reproduces the basic concepts and without difficulty imparts new knowledge, understands the material, explains the terms and concepts supported with examples.			Knowledge Observes th content of th terms and co were not or material.	luation. lains the ains the utions that ed					
	Active course attendance		70-75%	70-75% of attendance		5-86% of attenda	nce	87-100% of attendance	Max. Points				
	Active course at			points		7 points		10points	20 points				
4.3. Final grade	Seminar paper												
according to			2			3		4	5				
elements	Colloquia/ Writ	ten exam	50	-64,9%		65-79,9%		80-89,9%	90-100%				
			41	points		53 points		65 points	72 points				
	Oral array			2		3		4	5				
	Ofai exain		9	points		12 points		15 points	18 points				
4.3. Final grade		Percentage of acquired knowledge, skills and competences (teaching + final exam)		Numerical	grade	ECTS g	rade						
absolute		90 - 1 80 - 8	00%	5 (excell 4 (very g	ent)	A							
division		65 - 7	9,9%	3 (good	d)	C							
		60-6 50-5	4,9% 9.9%	2 (satisfac	tory) tory)	D E							

5. ADDITIONAL COURSE INFORMATION										
5.1. Compulsory	Title	Number of copies in the library	Availability via other media							
(available in the library and via other media)	1. grupa autora: Upravljačko računovodstvo, RIF, Zagreb, 2011.		YES							
5.2. Additional literature (at the moment of changes and/or amended of study programme)	 Lanen, W.N. & Anderson, S.W. & Maher, M.W., Fundamentals of cost accounting, Third Edition, 2014, by The McGraw-Hill – PPP Belak, V., Menadžersko računovodstvo, RRIF, Zagreb, 1995. Grubišić, A.; Analiza poslovanja, skripta, Veleučilište u Šibeniku, 2010. 	2								
5.3. Quality assurance methods that ensure the acquisition of knowledge, skills and competences	The control of students' work quality and the acquisition of necessary knowledge and skills will be ensured through interactive work. By keeping track of attendance and student activity during classes and provided information on students' progress through short colloquiums and homework, information for further guidance to students will be provided in order to increase the efficiency of their work. Students will be informed about their rights and obligations as well as the methods of work and the required literature. Indicators of quality assurance system: Student survey, monitoring of annual data from the Croatian employment service on the annual state of student employment, surveys from employers and Alumni association.									
5.4. Informing about the course and contacting the teacher	It is the responsibility of each student to be regularly informed about the course, the coursework, and the classroom activities will be published in a timely manner on the e-learning site of the course and on the website of the Polytechnic. Students can (at least one hour per week), while for short questions and explanations they can be contacted during class. It is also possil e-mail address at @ vus.hr), which will be answered as soon as possible (no later than five working days after receiving the	s. All notices of classes or p contact teachers during the ble to ask questions by e-m e e-mail).	ossible adjournment consultation period ail (from the official							

3. GENERAL INFORMATION							
1.1. Course lecturer	doc. dr.sc. Dragan Zlatović, profv. š. dr. sc. Frane Urem, prof. v. š.	1.8. Course code in ISVU					
1.2. Course title	Intellectual property and information systems	1.9. Course code in MOZVAG					
1.3. Assistants and/or associates		1.10. Forms of teaching (number of hours Lecturing +Practical exercises + Seminars + e learning)	(45+0+15+0)				
1.4. Study programme (specialist, undergraduate, graduate)	Specialist Professional Study	1.11. Level of e- learning application (1 st , 2 nd , 3 rd level), percentage of on line course performance (max. 20%)	1 st , course materials are on-line, 0%				
1.5. Course status (obligatory, optional)	Optional	1.12. Number of course revisions	4				
1.6. Year of study	2 nd	1.14. Modernization	Yes				
1.7. Credit score (ECTS)	6	1.14. Percentage estimate of course changes and/or supplements	Less than 20%XMore than 20 %□				
2. COURSE DESCRIPTION							
2.1. Course objectives Students are trained for the self-use of industrial property law (Patent Law, Trade Marks Law, Industrial Design Law, Law on Geographical Designation, Law on the Protection of Topography of Semiconductor Products, Obligatory Relationship Act - provisions regulating the contract about a license). Students gain knowledge about the protection and disposal of industrial property rights. Further, students are trained to be able to independently present and explain the underlying criteria for distinguishing copyright and related rights, defining basic copyright institutions, describing and explaining the course of the copyright protection process. Students are trained to assess the violation of intellectual property rights in the contemporary intellectual capital of entrepreneurs and to link these rights to modalities and the advertising and marketing strategy. Students are trained to select the optimal model of software licensing in a business organization and realize the importance of ethical behavior in the use of information systems.							
2.2. Terms of course entry and required competences	General conditions required for enrol society.	lment in II. semester. Understanding of fundamental concepts in the	e area of intellectual property and digital				
2.3. Learning outcomes on the study programme level	 To organize and lead team v To individually and respons To analyze and interpret key solutions and tactics of inno 	work, and critically judge the opinions and attitudes of team member ibly search relevant literature for reaching solutions and conclusions business trends and innovations in the micro and macro business er vation in business	rs s, nvironment and propose innovative				

	>	To valorize and apply basic legal institutions in business environment										
	Lear		Level of 1- reme 2- under 3- appli 4-analy. 5-evalue 6-synthe	LO: mbering, rstanding, cation, sis, ation, esis								
	1		4									
2.4. Expected learning outcomes on the course level	2 ti	n, geographic origin, topography, copyright and related rights		4								
	3 10	.Use different databases on legal sources, egal issues	jurisprudeno	ce and relevant legal literature whe	en preparing a decision on various		4					
	4 tl	5										
	5		6									
	6		5	 								
	7	.Synthesize and showcase practical licent	sing softwar	e issues			5	-				
	Constructive allignement											
	no	Thematic unit LO of the course Content/teaching methods Evaluation		Evaluation		Time						
2.5. Course content according to	21	Introduction to the course and detailed curriculum	-	Listen to a lecture and get to know the course content and documents on the e-learning course page by working independently on a computer.	-		3 h					
detailed curriculum schedule	51.	Introduction to Intellectual Property Rights (concept, development, legal sources)	1, 2	Listen to a lecture and read literature.	At the colloquium or the written / oral examinatio students can define the basic concepts of IPR law		5 h					
	32.	Industrial property rights - signs of distinction (trademark, industrial design)	1-5	Listen to a lecture and read literature.	At the colloquium or the written / oral ex students can show the protection of trade industrial design.	kam emarks and	1 0 h					

	33.	Industrial property rights - signs of distinction (trade name, geographic origin, semiconductor product topography, unfair competition	1-5	Listen to a lecture and read literature.	At the colloquium or the written / oral exam, students can identify and classify sources of the other sign of distinction and their protection	8 h	
	34.	Industrial property rights - patent law	1-5	Listen to a lecture and read literature. At the exercises on practical examples students analyze registration forms for IPR	At the colloquium or the written / oral examination, students can shaw registration of patent under national law and international and EU law	10 h	
	35.	Industrial property rights - trade secrets and know-how	1-5	Listen to a lecture and read literature. At the exercises students deal with the protection of trade secret under TRIPS Agreement and EU directive.	At the colloquium or written / oral exam know show and explain the "soft law" of IPR	10 h	
	36.	Industrial Property Rights - merchanidising, sponsorship, GDPR	1-5	Lsten to a lecture and read literature. At the exercises students analyze the different types of merchandising (character, personal etc.) and GDPR.	At the colloquium or the written / oral exam students can distinguish and explain the "soft law" of IPR	10 h	
	37.	Copyright and Related Rights - copyright, content, restrictions, collective and individual protection, copyright contracts	1-5	Lsten to a lecture and read literature. At the exercises students analyze the copypright protection under international, EU and national level	At he colloquium or written / oral exam students know show and explain the specific position of copyright under IPR	10 h	
	38.	Assignment and Protection of Intellectual Property Rights - licenses, franchises, cases, civil and criminal protection	1-5	Lsten to a lecture and read literature. At the exercises students analyze protection of IPR. At the excercise students address the relevant case law of national courts	At he colloquium or written / oral exam students know show and explain the different models of assignment of IPR. At the colloquium or the written / oral examination, students can explain the direct effect and substantiate this with relevant examples from the case law of the national courts.	10 h	
	39.	Licensing Software	1, 2, 7	Listen to a lecture and read literature. At the exercises students address the relevant case law of the Eanalyze different kind of software licences	At the colloquium or the written / oral examination, students can show and write some software licence sin practical area.	10 h	
	40.	Trademarks and patent rights for software products	1-7	Listen to a lecture and read literature. At the exercises analyze examples of state liability for damages in EU law.	At the colloquium or the written / oral exam, students can identify and enumerate cases where the state is liable for damages under EU law.	10 h	
	41.	Copyright for software products	1-7	Listen to a lecture and read literature. At the exercises students discuss the reasons for establishing an EU common market.	At the colloquium or the written / oral examination, students can explain the reasons for establishing the EU Common Market and define the concepts of positive and negative integration.	10 h	
	42.	Software piracy	3, 5-7	Listen to a lecture and read literature. At the exercises students address the relevant case law of the European Court of Justice regarding the protection of IPR	At the colloquium or the written / oral examination, students can explain the direct effect and superiority of European law and substantiate this with relevant examples from the case law of the European Court of Justice.	8 h	
	43.	Code of professional ethics and the rules in using licensed software	5-7	Listen to a lecture and read literature. At the exercises students analyze	At the colloquium or the written / oral examination, students can explain specific rules of ethical using licensed products	8 h	

					codes and rules in using licensed software.				1	
	44. Registration and urgent infringement procedure, how to apply to the national bodies, courts and European Court of Justice		1-7	Listen to a lecture and read literature. At the exercises students analyze relevant examples from the case law of the national bodies and courts European Court of Justice and practice preparing applications to the European Court of Justice.	At the colloquium or the written / c students can explain the purpose of and infringement procedure and sh the procedure.	the colloquium or the written / oral exam adents can explain the purpose of the registration d infringement procedure and show the course of e procedure.				
	45.	45. Application of EU law in the legal order of the Republic of Croatia		1-7	Listen to a lecture and prepare individually for the exam. At the exercises students study the constitutional and legal norms that apply to the application of EU law in the field of IPR in the legal order of the Republic of Croatia.	At the colloquium or the written / oral examination, students can define the obligations of the Member States as well as the regulatory authorities regarding the application of EU IPR law in the legal order of the Republic of Croatia.		20 h		
3. EVALUATION OF STUDENTS' WORK										
3.1. Students' obligations	 In accordance with the Regulations on Studying and the Regulations on Student Assessment and Evaluation: for all full-time students attendance of at least 70%. Part-time students are required to attend classes at least 50%. All students are required to carry calculator and formulae list. Students who have during the course achieved: from 0 - 24,9% ECTS credits- are rated F (unsuccessful) and cannot obtain ECTS credits, and must re-enroll in the next academic year; from 25 - 49,9% - are assessed by FX (insufficient) and must pass the written exam (test). Written exam (test) can be held in a regular or extraordinary exam period; more than 50% - students have the right to take the final exam. Students can take the final exam from the course in two ways: a) during the course of teaching through continuous monitoring of students (active 									
	Attenda	ance		Written exa	m 2,5 (without colloqu	iia) Project				
3.2. Monitoring student work (enter	Experir	nental work		Research		Practical work				
activity so that the total number of	Essay			Report		Continuous examination				
credit score of the course)	Colloqu	uium	5,5 (without written exam)	Seminar pa	per	Other				
	Class a	ctivity	0,5	Oral exam	3 (without colloquia	a) Other				
3.3. Student workload	Student 5. 6.	t workload on Attending cl Preparing co	all bases for 1 ECTS cred asses and exercises 60 ho olloquia or exams through	lit is 30 hours urs individual w	s in a semester and is estimated as vork 90 hours					

4. GRADING SYSTEM								
	The evaluation element	U	nsatisfactory			Satisfactory	Above average	
	Organization	The paper is not organized in a logical order and lacks structure.			The paper is clear distinct: introduction, and the concl	well structured with a ion between the the main body of the text usion.	The paper is well structured with a clear distinction between the introduction, the main body of the text and the conclusion, which are logically interconnected.	
4.1. Grading seminar papers	Terminology, writing style	Words and expressions low in line with official terminology. The writing style is not appropriate, the sentences are too long, of a modest vocabulary and with frequent and repeated grammatical errors.			Words and ex official termi is appropriate clear, the voc and there are	Appressions are in line with nology. The writing style e, the sentence structure is abulary is appropriate few grammatical errors.	Words and expressions are aligned with official terminology and show an understanding of their meaning. The writing style is excellent, the sentences are clear and concise, the vocabulary is rich and there are no grammatical errors.	
	Citing and referencing references	The sources are not listed at all. The references do not fit the topic and show a cursory approach to exploring the topic.			The sources are listed but incomplete and with errors. The references are relevant to the topic and show a satisfactory research attitude.		The sources are accurately, completely and consistently listed. The references are appropriate, their list is "rich" and comprehensive and shows a detailed research approach.	
	Unsatisfacto	Unsatisfactory			·у	Α	bove average	
4.2. Grading colloquia/ written and oral exam	Responds by memory, without a deeper understanding. Does not know or apply basic terms and concepts. Does not know how to apply or explain the contents of the course with examples.		Reproduces the basic conce difficulty imparts new understands the material, ex and concepts supported with		cepts and withou w knowledge xplains the term th examples.	Knowledge is at the level of Observes the principles, ac content of the material, and s terms and concepts suppor were not originally given. I material.	of analysis, synthesis and evaluation. curately and thoroughly explains the l logically connects and explains the ted with examples. Finds solutions that Notes correlations with related	
		70-75% of a	ttendance	76-86% of	attendance	87-100% of attendance		
	Active course attendance	3 poir	nts	5 pc	oints	10 points		
4.3. Final grade according to								
	Colloquia/ Written exam	50.64	09/	65 7	0.09/	4	00.1009/	
		50-64,	770	03-7	9,970	00-09,970	90-100%	

		27 poir	nts	33 po	nts	39 pc	oints	45	points	
	Oral exam	2		3	3		5		5	
		27 poir	ts 33 point		nts	39 po	oints	45 points		
4.4 Final grade according to	Percen knowl competenc	Percentage of acquired knowledge, skills and competences (teaching + final exam) Numerical grade ECTS grade								
absolute division	9 8 6 6 5	$\begin{array}{c} 0 - 100\% \\ 0 - 89,9\% \\ 5 - 79,9\% \\ 0 - 64,9\% \\ 0 - 59,9\% \end{array}$	5 (ex 4 (ve 3 (2 (sat 2 (sat	ccellent) ry good) (good) isfactory) isfactory)	A B C D E					
5. ADDITIONAL COURSE INFORMATION										
5.1. Compulsory literature	Title							Number of copies in the library	Availability via other media	
(available in the library and via other media)	CORNISH, William / LLEWELYN, David, Intellectual Property: Patents, Copyright, Trade Marks and Allied Rights, London, Sweet & Maxwell, 2019, 9. ed.									
5.2. Additional literature (at the moment of changes and/or amended of study programme)	TRITTON, Guy / DAV London, 5.ed, 2020. GRUNEN, Richard S., Int	TRITTON, Guy / DAVIS, Richard / QUINTIN, Thomas St., Intellectual Property in Europe, London, 5.ed, 2020. GRUNEN, Richard S., Intellectual Property and Digital Content, Vol.1., EE Publishing, 2013.								
5.3. Quality assurance methods that ensure the acquisition of knowledge, skills and competences	The control of students' work quality and the acquisition of necessary knowledge and skills will be ensured through interactive work. By keeping track of attendance and student activity during classes and provided information on students' progress through short colloquiums and homework, information for further guidance to students will be provided in order to increase the efficiency of their work. Students will be informed about their rights and obligations as well as the methods of work and the required literature. Indicators of quality assurance system: Student survey, monitoring of annual data from the Croatian employment service on the annual state of student employment surveys from employees and Alumni association.									
5.4. Informing about the course and contacting the teacher	It is the responsibility of e- possible adjournment will contact teachers during the class. It is also possible to than five working days aft	ach student to be be published in a e consultation per ask questions by er receiving the e	regularly in a timely ma iod (at leas e-mail (fror -mail).	formed about t nner on the e- t one hour per n the official e	ne course, th earning site week), while mail addres	te coursework, a of the course a e for short ques as at @ vus.hr),	and the cl and on th tions and which wi	lassroom activities. All the website of the Polyte l explanations they can ill be answered as soon	notices of classes or echnic. Students can be contacted during as possible (no later	

1. GENERAL INFORMATION ABOUT THE SUBJECT								
1.1. Title	Economics of information systems and software	1.8. ISVU course code						
1.2. Lecturer	Frane Urem PhD prof	1.9. MOZVAG course code						
1.3. Assistants and/or associates		1.10. Forms of teaching (number of hours Lecturing +Practical exercises + Seminars + e learning)	(30+15+0+0)					
1.4. Study programme (specialist, undergraduate, graduate)	specialist	1.11. Level of e- learning application (1 st , 2 nd , 3 rd level), percentage of on line course performance (max. 20%)	 ^{3rd} – materials available On-line, 0% 					
1.5. Course status (obligatory, optional)	optional	1.12. Number of course revisions	1.					
1.6. Study year	2	1.13. Modernization	yes 🗆 no					
1.7. Credit score (ECTS)	4	1.14. Percentage estimate of course changes and/or supplements	Less than 20% More than 20 %					

2. COURSE DESCRIPTION	
2.1. Course objectives	Acquisition of knowledge from methodologies of development and economics of information systems
2.2. Terms of course entry and required competences	

	LO1 To organize and lead team work, and critically judge the opinions and attitudes of team members							
2.3. Learning outcomes on the	LO2 To individually and responsibly search relevant literature for reaching solutions and conclusions,							
study programme level	LO4 To analyze and interpret key business trends and innovations in the micro and macro business environment and propose innovative solutions and tactics of innovation in business							
	LO7 To apply and valorize qualitative and quantitative methods of business decision-making in solving economic and managerial pr program support							
2.4. Expected learning outcomes	Learning outcomes towards Bloom's taxonomy: (up to two verbs per LO)	LO Level: 1. Recapture, 2. Understanding, 3. Application, 4. Analysis, 5. Evaluation, 6. Synthesis						
on the course level	1. Understand and be able to analyze the economic fundamentals of software							
	2. Illustrate the software life cycle based on the available practical example							
	3. Apply the concepts of risk and uncertainty related to the project in the field of information systems							
	4. Implement methods of economic analysis of the introduction or change of the information system using best known practice	2,3,4,5,6						
	5. Connect and interpret the engineering ("best possible") approach to problem solving	2,3,4,5,6						

2.5. Course content according to detailed curriculum schedule	Constructive alignment										
	No:	Thematic ensemble / Lecture Topic	Course LO	Content / Teaching Method	Evaluation	Time needed					
		Introduction to the course and detailed curriculum.	-			2 hours					
	46.	Introduction to information systems	2, 3, 4, 5, 6	Listening to lectures, working on a computer, reading literature.	At the midterm or the written and oral exam they define the basic concepts in object oriented programming. They describe the role of the information systems	6 hours					
	47.	Preparation and content of the proposal for the execution of the project in the field of information systems	1,2,3	Students listen to lectures, work on the computer, read literature.	Interpret the concept of business information system. Identify the main parts of the information system proposal	8 hours					
	48.	Cash flow in the project, time value of money	1,2,3,4	Students listen to lectures, work on the computer, read literature	Define cash flow in the project . Identify sources of project funding . Identify project costs . Calculate project cash flow based on a case study .	8 hours					

49.	Comparison of different proposals for information systems that meet the technical specification	1,2,3,4	Students listen to lectures, work on the computer, read literature	Understand and be able to analyze the proposals for information system. Identify an proposals that meets the technical specification . Explain the importance of eco mic best proposals.	8 hours
50.	Making a business decision regarding the procurement of an information system for a business organization	1,2,3,4	Students listen to lectures, work on the computer, read literature	Identify information resources in business. Identify the reasons that lead to the decision to procure an information system.	8 hours
51.	Profit analysis for the acquisition or development of an information system	1,2,3,4	Students listen to lectures, work on the computer, read literature	Understand the feasibility analysis of a project in a for-profit environment. Interpret the basic concepts in the project budget (BAC, ETC, EAC). Calculate MAAR. Calculate the NPV for the procurement of the information system from the case study.	8 hours
52.	Loss of information system value	1,2,3,4,5	Students listen to lectures, work on the computer, read literature	Calculate the loss of value for the information system.	8 hours
53.	Non-profit analysis of the costs and benefits for the acquisition or development an information system	1,2,3,4,5	Students listen to lectures, work on the computer, read literature	Interpret the cost-benefit analysis in an information system project intended for a non-profit environment.	8 hours
54.	Development and content of the offer for performing a software project	3,4,5	Students listen to lectures, work on the computer, read literature	Understand the content of the offer to perform a software project.	8 hours
55.	Using risk assessment techniques	3,4,5	Students listen to lectures, work on the computer, read literature	Understand the concept of risk. Identify and quantify risks in a given information system project.	8 hours
56.	Using uncertainty estimation techniques	3,4,5	Students listen to lectures, work on the computer, read literature	Understand the notion of uncertainty . Recognize uncertainties in a given information system project.	8 hours
57.	Determining functional requirements for software . Determining non- functional software requirements	3,4,5	Students listen to lectures, work on the computer, read literature.	Define functional requirements for software. Determine the functional requirements for the software based on the given business problem. Define non- functional requirements for software. Determine non-functional software requirements based on a given business problem.	8 hours

		58. Performance of information systems		3,4,5	Students listen to l work on the compu- literature	ectures, iter, read	Assess the p information	performance of a given system.	8 hours
	59.	Multicriteria decis software project	ion making in a	3,4,5	Students listen to l work on the compu- literature	ectures, uter, read	Understand making in a compensate decision-ma software pro-	multicriteria decision software project. Apply ry and non-compensatory sking methods in a given bject.	8 hours
	60. Software maintenance		3,4,5	Students listen to lectures, work on the computer, read literatureUnderstand maintenan software m maintenan study.		the importance of software e. Define basic types of aintenance. Estimate software e costs from a given case	8 hours		
3. EVALUATION OF STUDENT WORK									
3.1. Students' obligations	In acco to atter Studen Studen exams	 n accordance with the Book of Rules and the Rulebook on Student Assessment and Evaluation: for all regular students attend at least 70% attendance. Part-time students have the obligation o attend at least 50% of lectures. All students must create, present and positively colloquy seminar paper. Students who have during the course achieved: From 0 – 24,9% ECTS credits- is rated F (unsuccessful) and cannot get ECTS credits and must re-enrol the subject in the next academic year; From 25 – 49,9% ECTS credits - is rated FX (inadequate) and has to come out and pass the test (exam). A written exam can be held in a regular or extraordinary exam period; More than 50% ECTS credits - students have the right to access the final exam of the subject. 							ts have the obligation nary exam period; nd exercises and two
	Attendance		1	Wri	itten exam	l (by submittin colloquiums th relieved of an examination)	ng both ne student is written	Project	
3.2. Monitoring student work	Experi	mental work		Res	search			Practical work	1
(enter the share of ECTS credits for each activity so that the total	Essay			Rep	port			Continuous examination	
number of ECTS points corresponds to the credit score of the course)	Colloq	uium	2 (by submitting both colloquiums the stude relieved of a written a oral examination)	ent is and Sen	ninar paper			Other (inscribe)	
	Class a	activities		Ora	ıl exam	1 (by submittin colloquiums th relieved of an examination)	ng both ne student is oral	Other (inscribe)	
3.3. Student workload	The s	tudent's workload o	n all bases amounts t	o 1 ECTS p	point for 30 hours of w	ork per seme	ster and is est	imated as:	

	Commitment 1. Attending classes 2. Practical work 3. Preparation for the Colloquium / exam through self-study				Hours (estin 60 30 30	Hours (estimate) 60 30 30			
4. GRADING									
	Voluction Flom	o n t		Door		Sotia	fring		Above evenege
4.1. Seminar paper grading	valuation Fleme	ent		Poor		Saus	rying		Above average
		Po	oor			Satisfying		Above average	
4.2. Colloquium / exam grading	Give answer by memory, no deeper understanding. Does not know and does not apply the basic terms and concepts. Cannot apply or explain the contents of the course.			ling. Rarms no rents th ex	Reproduces basic terms, without difficulty transfers new knowledge, understands subject matter, explains the terms and the notions that substantiate by examples.			Knowledge is at the level of analysis, synthesis and evaluation. It observes legitimacy, accurately and thoroughly explains the content of the subject, and logically links and explains the terms and concepts that it encapsulates. Find solutions that are not originally given. There is a correlation with correlative subjects.	
	Active participation	ctive participation in the 70-75% of attendance		endance	76-86% of attendance 87-10		00% of attendance	Created mental map. Solved case study.	
	lessons		4 points			7 points		10 points	3 points
	S-minor and		2			3		4	5
4.3. Creating a final grade	Seminar paper		5 points			7 points	ts 8 r		10 points
according to evaluation			2		3			4	5
elements	Colloquium / writte exam	n	50-64,99	%		65-79,9%		80-89,9%	90-100%
			25 point	ts		30 points		35 points	40 points
	Oral avan		2			3		5	5
			25 point	ts		30 points		35 points	40 points
4.4. Creating a final grade according to absolute allocation		Perce know	entage of adopted vledge, skills and	Num	erous grade	ECTS grade			

5. ADDITIONAL INFORMA	TION ABOUT TH	competences (teaching + final exam) 90 - 100% 80 - 89,9% 65 - 79,9% 60 - 64,9% 50 - 59,9% E COURSE	5 (excellent) 4 (very good) 3 (good) 2 (sufficient) 2 (sufficient)	A B C D E			
5.1. Compulsory literature			Title			Number of copies in the library	Availability via other media
(available in the library and through other media)	 Peer-reviewed t F. Urem, IS Des IEEE Software 	eaching materials on the e- sign and Analysis, Šibenik Engineering Body of Know	ineering		Available online at e-learning system		
5.2. Additional literature (at the moment of changes and/or amended of study programme)	1. Bidgoli H.: Management Information Systems6, 4LTR Press, Cengage Learning, 2016. Available online 2. J.O'Brien, G.Marakas: Menagement Information Systems, 7th ed., McGraw Hill, 2016. e-learning systement						
5.3. Quality assurance methods that ensure the acquisition of knowledge, skills and competences	The control of students' work quality and the acquisition of necessary knowledge and skills will be ensured through interactive work. By keeping track of attendance and student activity during classes and provided information on students' progress through short colloquiums and homework, information for further guidance to students will be provided in order to increase the efficiency of their work. Students will be informed about their rights and obligations as well as the methods of work and the required literature. Indicators of quality assurance system: Student survey, monitoring of annual data from the Croatian employment service on the annual state of student employment, surveys from employers and Alumni association.						
5.4. information on the course and contact with the teacher	It is obligatory for every student to regularly inform about the course, teaching and teaching activities. All information about teaching or any delay in teaching will be published on the e-learning pages of the course and on the web pages of the Polytechnic. Students can contact the teachers during the consultation term (at least one hour per week), while brief questions and explanations can be addressed during classes. It is possible to ask questions by e-mail (from the official e-mail address from the domain @ vus.hr) that will be answered in a short time (no later than five working days from the receipt of e-mail).						

PK-SP-2. Description of a new course an amended and/or changed or modernized course.

1. GENERAL INFORMATION ABOUT THE SUBJECT							
1.1. Title	Market research	1.8. ISVU course code	187558				
1.2. Lecturer	Jelena Šišara, univ.spec.oec.	1.9. MOZVAG course code					
1.3. Assistants and/or associates	None	1.10. Forms of teaching (number of hours Lecturing +Practical exercises + Seminars + e learning)	(30+0+15+0)				
1.4. Study programme (specialist, undergraduate, graduate)	Specialist Study of Management	1.11. Level of e- learning application (1 st , 2 nd , 3 rd level), percentage of on line course performance (max. 20%)	1 st – materials available On-line, 0%				
1.5. Course status (obligatory, optional)	Obligatory	1.12. Number of course revisions	1.				
1.6. Study year	1 st	1.13. Modernization	yes 🗆 no				
1.7. Credit score (ECTS)	4	1.14. Percentage estimate of course changes and/or supplements	Less than 20% More than 20 %				

2. COURSE DESCRIPTION	
2.1. Course objectives	 Understanding the importance and necessity of market research when making business decisions. Acquiring basic knowledge of market research methods and techniques.

	 Understanding the market research process. Design of data collection instruments. Applying the learned skills to a specific research project. 					
2.2. Terms of course entry and required competences	Admission requirements for 1st year of study					
	LO1:To organize and lead team work, and critically judge the opinions and attitudes of team members					
	LO2:To individually and responsibly search relevant literature for reaching solutions and conclusions,					
2.3. Learning outcomes on the	LO3:To analyze business environment, distinguish the company's competitive advantages and propose different business strategies to achieve the company's goals					
study programme level	LO4:To analyze and interpret key business trends and innovations in the micro and macro business environment and propose innovative solutions and tactics of innovation in business					
	LO9:To select a research method, conduct market research and interpret the results of the research carried out					
	Learning outcomes towards Bloom's taxonomy: (up to two verbs per LO)	LO Level: 7. Recapture, 8. Understanding, 9. Application, 10. Analysis, 11. Evaluation, 12. Synthesis				
2.4 Expected learning outcomes	LO1:To explain and to comment basic concepts related to market research.	2,4				
an the course level	LO2: To define the research goal, problem and hypotheses, to select the types and sources of data and to design a research problem based on it.	1, 5, 6				
on the course level	LO3: To propose appropriate market research methods and, on this basis, to construct a suitable data collection instrument addressed to a specific research problem.	6,6				
	LO5. To present the results of the research	5, 5, 0				
		0				
	1.					
	2.					
	3.					
	4.					

2.5. Course content according to detailed curriculum schedule	Constructive alignment									
	No:	Thematic ensemble / Lecture Topic	Course LO	Content / Teaching Method	Evaluation	Time needed				
	61.	Introduction to the course and a detailed performance plan	-	Listen to the lecture. On seminary teaching, by independent work on the computer students get acquainted with course content and documents on the e-learning course page.	-	5 hours				

62.	INTRODUCTION TO MARKET RESEARCH: THE TERM AND DEFINITION OF MARKET RESEARCH; THE ROLE AND IMPORTANCE OF MARKET RESEARCH IN BUSINESS RESEARCH	1, 2	They listen to lectures, solve case studies, discuss, problem papers, presentations of seminar work	At the colloquium or the written and oral exam they define and explain the concepts that occur in this thematic unit, then they should present and analyze the same on a concrete example, critically judge on the basis of the presented problem and propose a solution to the same problem.	7 hours
63.	SCIENTIFIC METHOD AND ETHICS IN MARKET RESEARCH; ORGANIZERS AND BENEFICIARIES OF MARKET RESEARCH	1, 2	They listen to lectures, solve case studies, discuss, problem papers, presentations of seminar work	At the colloquium or the written and oral exam they define and explain the concepts that occur in this thematic unit, then they should present and analyze the same on a concrete example, critically judge on the basis of the presented problem and propose a solution to the same problem.	7 hours
64.	MARKET RESEARCH PROCESS AND PROJECT	1, 2, 3	They listen to lectures, solve case studies, discuss, problem papers, presentations of seminar work	At the colloquium or the written and oral exam they define and explain the concepts that occur in this thematic unit, then they should present and analyze the same on a concrete example, critically judge on the basis of the presented problem and propose a solution to the same problem.	8 hours
65.	TYPES OF MARKET RESEARCH	1, 2, 3	They listen to lectures, solve case studies, discuss, problem papers, presentations of seminar work	At the colloquium or the written and oral exam they define and explain the concepts that occur in this thematic unit, then they should present and analyze the same on a concrete example, critically judge on the basis of the presented problem and propose a solution to the same problem.	8 hours
66.	PRIMARY AND SECONDARY DATA, SAMPLES AND SAMPLING	1, 2, 3, 4	They listen to lectures, solve case studies, discuss, problem papers, presentations of seminar work	At the colloquium or the written and oral exam they define and explain the concepts that occur in this thematic unit, then they should present and analyze the same on a concrete example, critically judge on the basis of the presented problem and propose a solution to the same problem.	10 hours
67.	DATA ANALYSIS AND INTERPRETATION, Colloquium I.	1, 2, 3, 4	They listen to lectures, solve case studies, design and develop a research project.	At the colloquium or the written and oral exam they define and explain the concepts that occur in this thematic unit, then they should present and analyze the same on a concrete example, critically judge on the basis of the presented problem and propose a solution to the same problem.	10 hours
68.	APPLICATION OF MARKET RESEARCH, RESEARCH FOR MARKET SEGMENTATION NEEDS	1, 2, 3, 4, 5	They listen to lectures, solve case studies, design and develop a research project.	At the colloquium or the written and oral exam they define and explain the concepts that occur in this thematic unit, then they should present and analyze the same on a concrete example, critically judge on the basis of the presented problem and propose a solution to the same problem.	10 hours
69.	APPLICATION OF MARKET RESEARCH, RESEARCH FOR PRODUCT DEVELOPMENT NEEDS	1, 2, 3, 4, 5	They listen to lectures, solve case studies, design and develop a research project.	At the colloquium or the written and oral exam they define and explain the concepts that occur in this thematic unit, then they should present and analyze the same on a concrete example, critically judge on the basis of the presented problem and propose a solution to the same problem.	10 hours

	70.	RESEARCH FOR ADVERTISING AND SELLING NEEDS	1, 2, 3, 4, 5	They listen to lectures, solve case studies, design and develop a research project.	At the colloquium or the written and oral exam they define and explain the concepts that occur in this thematic unit, then they should present and analyze the same on a concrete example, critically judge on the basis of the presented problem and propose a solution to the same problem.	10 hours	
	71.	RESEARCH FOR PRICING AND SATISFACTION NEEDS	1, 2, 3, 4, 5	They listen to lectures, solve case studies, design and develop a research project.	At the colloquium or the written and oral exam they define and explain the concepts that occur in this thematic unit, then they should present and analyze the same on a concrete example, critically judge on the basis of the presented problem and propose a solution to the same problem.	10 hours	
	72.	MARK VALUE RESEARCH	1, 2, 3, 4, 5	They listen to lectures, solve case studies, design and develop a research project.	At the colloquium or the written and oral exam they define and explain the concepts that occur in this thematic unit, then they should present and analyze the same on a concrete example, critically judge on the basis of the presented problem and propose a solution to the same problem.	10 hours	
	73.	APPLICATION OF RESEARCH IN MAIN TOURISM AREAS	1, 2, 3, 4, 5	They listen to lectures, solve case studies, design and develop a research project.	At the colloquium or the written and oral exam they define and explain the concepts that occur in this thematic unit, then they should present and analyze the same on a concrete example, critically judge on the basis of the presented problem and propose a solution to the same problem.	8 hours	
	74.	PRESENTATIONS OF THE RESEARCH PROJECT	6	Present research projects, discussion.	At the colloquium or the written and oral exam they define and explain the concepts that occur in this thematic unit, then they should present and analyze the same on a concrete example, critically judge on the basis of the presented problem and propose a solution to the same problem.	4 hours	
	75.	FINAL CONSIDERATIONS AND SIGNATURES, II. Colloquium		They listen to lectures, make conclusions, discuss	At the colloquium or the written and oral exam they define and explain the concepts that occur in this thematic unit, then they should present and analyze the same on a concrete example, critically judge on the basis of the presented problem and propose a solution to the same problem.	3 hours	
3. EVALUATION OF STUDEN	3. EVALUATION OF STUDENT WORK						
	In accordance with the Book of Rules and the Rulebook on Student Assessment and Evaluation: for all regular students attend at least 70% attendance. Part-time students have the obligation to attend at least 50% of lectures. All students must create, present and positively colloquy seminar paper.						
3.1. Students' obligations		 Idents who have during the course achieved: From 0 – 24,9% ECTS credits- is rated F (unsuccessful) and cannot get ECTS credits and must re-enrol the subject in the next academic year; From 25 – 49,9% ECTS credits - is rated FX (inadequate) and has to come out and pass the test (exam). A written exam can be held in a regular or extraordinary exam period; More than 50% ECTS credits - students have the right to access the final exam of the subject. 					

	Students can pass the final exam seminar paper and project, passin passing the exam (written and or	in two ways: a) during the cours ng two colloquia); b) during the al exam).	se through continuous course (active partici	s student att pation in the	endance (active participation in the e lessons, solving case studies, crea	e lessons, solving case studies, ting and presenting the semina	making and presenting the r paper and project) and	
	Attendance	0,5	Written exam		0,5 (by submitting both colloquiums the student is relieved of an written examination)	Project	2	
3.2. Monitoring student work	Experimental work		Research			Practical work		
(enter the share of ECTS credits for each activity so that the total	Essay		Report			Continuous examination		
number of ECTS points corresponds to the credit score of the course)	Colloquium	1 (by submitting both colloquiums the student is relieved of a written and oral examination)	Seminar paper	0,5		Other (inscribe)		
	Class activities		Oral exam		0,5 (by submitting both colloquiums the student is relieved of an oral examination)	Other (inscribe)		
3.3. Student workload	The student's workload on all bases amounts to 1 ECTS point for 30 hours of work per semester and is estimated as: Commitment Hours (estimate) 4. Attending classes 60 5. Creating and Presenting seminar paper/project 30 6. Preparation for the Colloquium / exam through self-study 30							
4. GRADING								
	Valuation Element	Poor			Satisfying	Abov	e average	
	Organization	The paper is not organized in a logical order and its structure is lacking.		The paper is well structured with a clear distinction between the introduction, the main part of the text and the conclusion.		The paper is well-st distinction between main part of the text that are perfectly log another	The paper is well-structured with a clear distinction between the introduction, the main part of the text and the conclusions that are perfectly logically linked to one another	
4.1. Seminar paper grading	Terminology, writing style	Words and phrases are low with official terminology. not appropriate, sentences modest vocabulary, and fr repeated grammatical mist	v harmonized Writing style is are too long, equent and akes.	Words at terminol appropri the voca grammat	nd phrases are aligned with off ogy. The writing style is ate, the sentence structure is cl bulary is appropriate and has li cical errors.	icial Words and phrases terminology and sho their meaning. The excellent, the senter concise, the vocabu are no grammatical	are aligned with official ow an understanding of writing style is ces are clear and ary is rich and there errors.	
	Quoting and referencing	Sources are not specified at all. The references do not match the topic and show a superficial approach to the research topic.		Sources errors. T	are listed, but incomplete and the references are appropriate f	vith Sources are accurate consistent. The reference	e, complete and rences are appropriate,	

						the subject and show a attitude.	a satisfactory	research their lis shows a	t is "rich" and comprehensive and a robust research approach.
		F	Poor			Satisfying			Above average
4.2. Colloquium / exam grading	Give answer by memory, no deeper understanding. Does not know and does not apply the basic terms and concepts. Cannot apply or explain the contents of the course.			ling. Rep rms new tents the exar	Reproduces basic terms, without difficulty transfers new knowledge, understands subject matter, explains the terms and the notions that substantiate by examples.			Knowledge is at the level of analysis, synthesis and evaluation. It observes legitimacy, accurately and thoroughly explains the content of the subject, and logically links and explains the terms and concepts that it encapsulates. Find solutions that are not originally given. There is a correlation with correlative subjects.	
	Active participation		n in the 70-75% of attendance		76-86% of attendance		87-100% of attendance		Seminal paper.
	lessons		2 points			4 points		7 points	3 points
	D 1		2		3			4	5
4.3 Creating a final grade	Research paper		5 points			7 points	8 points		10 points
according to evaluation			2		3		4		5
elements	Colloquium / writte	en	n 50-64,9%		(65-79,9%		80-89,9%	90-100%
	CAUIT	25 point		ts		30 points		35 points	40 points
	Oral exam		2			3	5		5
			25 point	ts		30 points		35 points	40 points
4.4 Creating a final grade	co		Percentage of adopted knowledge, skills and mpetences (teaching + final exam)		merous grade ECTS grade				
according to absolute allocation			90 - 100% 80 - 89.9%	5 (exc 4 (ver	v good)	A			
e e e e e e e e e e e e e e e e e e e			65 - 79,9%	3 (g	;ood)	C			
			60 - 64,9% 50 - 59.9%	2 (suf	ficient)	D			

5. ADDITIONAL INFORMA	TION ABOUT THE COURSE		
5.1. Compulsory literature	Title	Number of copies in the library	Availability via other media
(available in the library and through other media)	1. Marušić, M., Vranešević, T. (2001). *Istraživanje tržišta*. ADECO, Zagreb	1	
through other media)	2. Marušić, M., Prebežac, D. (2004). *Istraživanje turističkih tržišta*. ADECO, Zagreb	1	
5.2. Additional literature (at the moment of changes and/or amended of study programme)	3. Meler, M. (2005). *Istraživanje tržišta*. Ekonomski fakultet u Osijeku, Osijek	0	
5.3. Quality assurance methods that ensure the acquisition of knowledge, skills and competences	The control of students' work quality and the acquisition of necessary knowledge and skills will be ensured through interactive work. By I classes and provided information on students' progress through short colloquiums and homework, information for further guidance to stude of their work. Students will be informed about their rights and obligations as well as the methods of work and the required literature. Indicators of quality assurance system: Student survey, monitoring of annual data from the Croatian employment service on the annual stat Alumni association.	keeping track of attendance and ents will be provided in order to the of student employment, surve	student activity during increase the efficiency ys from employers and
5.4. information on the course and contact with the teacher	It is obligatory for every student to regularly inform about the course, teaching and teaching activities. All information about teaching or ar pages of the course and on the web pages of the Polytechnic. Students can contact the teachers during the consultation term (at least one h can be addressed during classes. It is possible to ask questions by e-mail (from the official e-mail address from the domain @ vus.hr) th working days from the receipt of e-mail).	ny delay in teaching will be public nour per week), while brief quest at will be answered in a short t	ished on the e-learning stions and explanations time (no later than five

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1. GENERAL INFORMATION	I					
1.1. Course lecturer	Želimir Mikulić	1.7. Credit score (ECTS)	6			
1.2. Course title	Quantitative methods for business decision-making	1.8. Forms of teaching (number of hours Lecturing +Practical exercises + Seminars + e learning)	45 L + 30 PE			
1.3. Assistants and/or associates		1.9. Level of e- learning application (1 st , 2 nd , 3 rd level), percentage of on line course performance (max. 20%)	1 st level – learning materials are available online, 10% interactive tools			
1.4. Study programme (specialist, undergraduate, graduate)	Specialist professional graduate	1.10. Number of course revisions				
1.5. Course status (obligatory, optional)	Obligatory	1.11. Modernization	X			
1.6. Year of study	2.	1.12. Percentage estimate of course changes and/or supplements	Less than 20% □ More than 20 % □			
2. COURSE DESCRIPTION						
2.1. Course objectives	To introduce students to various types of problems that occur in business decision making. Get to know and learn to use the methods that are used to solve certain problems in business decision making and learn methods to optimize such problems.					
2.2. Terms of course entry and required competences	Completed Statistics Collegium	Completed Statistics Collegium				
2.3. Learning outcomes on the study programme level	To individually and responsibly search relevant literature for reaching solutions and conclusions. To analyse the business environment, distinguish the company's competitive advantages, and propose different business strategies to achieve the company's goals. Implement and evaluate the qualitative and quantitative methods for business decision-making in solving economic and managerial problems using software support. To propose decisions on production, operations, flows, capacities, costs and processes by analysing and tracking achieved indicators and results. To evaluate the eligibility of the investment project on the basis of economic and financial analysis made with the help of modern tools and techniques.					
2.4. Expected learning outcomes on the course level	Students will: Plan the conduct of an operational research, evaluate the required resources and time, and lead an operational research team. Identify and classify problems: linear programming, nonlinear programming, integer and mixed programming, transport, network, deterministic and stochastic dynamic programming problems. To build a mathematical model of linear optimization problems. Using the program support to solve the problems of linear optimization and evaluate the reliability of the results based on the sensitivity analysis. Develop transport and assignment problem models, review their validity, and choose when it is more convenient to deal with other methods.					

Identify network optimisation models: Apply basic algorithms and methods to resolve network optimisation problems.
Design a model for process control and to select the optimal savings by cutting in cases of breaking deadlines.
Recommend optimal business decision choices using deterministic and stochastic dynamic programming methods.
Design decision trees for evaluating decisions and calculate the value of information.
Critically evaluate decision modelling settings and get results to avoid bias and standard error.

			LECTURES		EXERCISES/LABS			
	Week	Hour	Theme	Week	Hour	Theme		
	1	3	Introduction to Quantitative Methods.	1	2	Setting up a mathematical model		
	2	3	Linear problems, mathematical model and geometric visualization.	2	2	Setting up a mathematical model. Solving using simplex method		
	3	3	Introduction to Simplex Method	3	2	Solving the optimization problem		
	4	3	Theoretical basis of simplex methods		2	Simplex Method. Post-optimal analysis.		
	5	3	Post-optimal analysis, sensitivity and shadow price	5	2	Post-optimal analysis.		
	6	3	Special cases of linear problems, transport problems		2	Transport problems		
2.5. Course content according to	7	3	Directed simplex method for transport problems. Problem of assignation.	7	2	Assignation problems.		
detailed curriculum schedule	8	3	Network Models: Minimum Tree Problem, Shortest Way, Maximum Flow		2	Solving linear problems.		
	9	3	Network Modelss for Project Management.		2	Repetition.		
	10	3	Dynamic Programming		2	Applying Networks to Solve Linear Problems: Minimum Tree, Shortest Path,		
	11	3	Stochastic Dynamic Programming.		2	maximum flow, minimum cost flow. Critical path method		
	12 3		Decision-Making Theory: Decisions Tree.		2	Dynamic programming		
	13	3	Decision-Making Theory: The value of information	13	2	Stochastic Dynamic Programming,		
	14	3	Behavioural economics. Prejudices and misconceptions of using quantitative methods.	14	2	Decision-Making Theory		
	15	3	Problem analysis, model selection and solving methods.	15	2	Decision-Making Theory. Repetition.		
2.6. Teaching methods	x lectur semin x practi distar mixe field	res nars and ical exe nce edu d e-lear teachin	I workshops x independent tasks rcises multimedia and network cation laboratory ning other			2.7. Comments:		

2.8. Students' obligations	Minimal attendance for full-time students is 70% of all lectures and exercises. Students who do not satisfy minimal attendance condition will not be allowed to the exam. Part time students can supplement attendance with regular consultations with lecturer on the be-weekly basis. It is strongly recommended that students take active part during lectures (in discussions, readings, rising questions, problem solving etc.) Part time students who will not be able to attend lectures regularly should contact lecturer in advance during consultation hours or via e-mail (<u>zelimir.mikulic@vus.hr</u> , <u>sisak@vus.hr</u>). It is duty of a student to inform itself about lectures on the daily basis. Notifications about possible changes will be sent to students via e-mail and posted on the web page of course e-learning site, together with all information about course, learning materials, assignments etc.						
	Attendance	1,5	Written exam	2,5	Project		
2.9. Monitoring student work (enter	Experimental work		Research		Practical work		
activity so that the total number of	Essay		Report		Continuous examination	0,5	
credit score of the course)	Colloquium		Seminar paper		Other		
	Class activity	0,5	Oral exam	1	Other		
2.10. Grading and evaluating students' work during classes and on the exam	Student's attendance obligatory for studen is then used instead of Students who do not to be allowed to the 25% based on results	tudent's attendance is regularly registered as is activity in class during lectures and exercises. Three colloquiums are organized during semester (not bligatory for students) and student who scores over 50% points on each of them can go directly to oral exam. Total score from all three colloquiums is then used instead of written exam score. If student passes only two out of three colloquiums, he can repeat one he has missed at the end of semester. Students who do not pass all three colloquiums have to approach to the written exam. On the written exam student has to score minimum of 50% points o be allowed to the oral exam. Final grade is based on the following criteria: 10% based on attendance, 15% on activity during lectures and exercises, 15% hased on results of written exam.					
			Title		Number of co the librar	pies in 'y	Availability via other media
	Kalpić D., Mornar V	., Operacijska istraživanj	5				
2.11. Compulsory literature (available in the library and via other media)	Hillier F., Lieberman G. : Introduction to operations Research, McGraw Hill 8th ed. 2005, 8th Ed.						Pdf form
	Swift L., Piff S.: Quantitative Methods for Business, Menagement and Finance, Palgrave, 3rd Ed.						
	Winston W.: Microsoft Excel 2013: Dana Analysis and Business Modeling						

2.12. Additional litearature (at the moment of changes and/or amended of study programme)	Babić Z., Linearno programiranje, Sveučilište u Splitu , Split 1991. Bradley, Hax, and Magnanti : Applied Mathematical Programming, Addisson-Wesley, 1977	1 1	Pdf form
2.13. Quality assurance methods that ensure the acquisition of knowledge, skills and competences	The control of students' work quality and the acquisition of necessary knowledge and skills will be ensu track of attendance and student activity during classes and provided information on students' progress t information for further guidance to students will be provided in order to increase the efficiency of their rights and obligations as well as the methods of work and the required literature. Indicators of quality assurance system: Student survey, monitoring of annual data from the Croatian employment, surveys from employers and Alumni association.	rred through interactive w hrough short colloquiums work. Students will be inf ployment service on the ar	ork. By keeping and homework, formed about their nual state of student

1. GENERAL INFORMATION AB	OUT THE SUBJECT			
1.1. Title	Psychology for managers	gy for managers 1.8. ISVU course code		
1.2. Lecturer	MA Gina Lugović, s. lecturer	1.9. MOZVAG course code		
1.3. Assistants and/or associates	None	1.10. Forms of teaching (number of hours Lecturing +Practical exercises + Seminars + e learning)	30L+15S	
1.4. Study programme (specialist, undergraduate, graduate)	Professional graduate study of Management	1.11. Level of e- learning application (1 st , 2 nd , 3 rd level), percentage of on line course performance (max. 20%)	1 st , materials available on line, 0% performance courses on line	
1.5. Course status (obligatory, optional)	Obligatory	1.12. Number of course revisions	1	
1.6. Study year	1 st	1.13. Modernization	x yes 🗆 no	
1.7. Credit score (ECTS)	5	1.14. Percentage estimate of course changes and/or supplements	Less than 20%XMore than 20 %□	

2. COURSE DESCRIPTION	
2.1. Course objectives	 Introduction to the basic concepts of psychology underlying relationships. Adoption of the basic concepts of human relations: the nature of human relationships, social perception, components of interpersonal relationships, the attitudes and importance of behavioural attitudes,

	 stereotypes and prejudices, forms of social behaviour, development of morality, social skills as the foundation of interpersonal relationships, Conflict and non-violent conflict resolution. Understanding interpersonal relationships and social skills. 							
	- Identifying the causes of conflict and ways of reducing and preventing conflicts.							
2.2. Terms of course entry and required competences	No input competence.							
	LO1. To organize and lead team work, and critically judge the opinions and attitudes of team members							
	LO2. To individually and responsibly search relevant literature for reaching solutions and conclusions							
2.3. Learning outcomes on the	LO6. To critically evaluate existing marketing communications and suggest improvements on the concrete business case and develop basic skills of forming integrated marketing communications							
study programme level								
	Learning outcomes towards Bloom's taxonomy: (up to two verbs per LO)	LO Level: 13. Recapture, 14. Understanding, 15. Application, 16. Analysis, 17. Evaluation, 18. Synthesis						
2.4. Expected learning outcomes	5. Analyse the quality of communication and create an atmosphere of successful communication in their social / work environment	4						
	6. Manage verbal and non-verbal expression and behaviour - assertive and prosocial							
on the course level	7. Propose social skills in human relations and reduce conflict							
	8. Organize and manage work in a team, and critically weigh the opinions and attitudes of stakeholder team							
	9. Suggest ways to resolve conflicts in your social environment	6						
	10. Manage the social skins and social / communication competencies required of a manager	U						
	12							
	13.							
	14.							

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	No:	Thematic ensemble / Lecture Topic	Course LO	Content / Teaching Method	Evaluation	Time needed
	76.	Introduction to the course and a detailed performance plan	-	Listen to the lecture. On seminary teaching, by independent work on the computer students get acquainted with course content and documents on the e-learning course page.	-	2 hours
		Introduction lecture, Concept and content of psychology for managers, Differences between needs and desires, Abandonment and active participation.	1, 2, 3	Listen to the lecture and read the literature.	In the written exam they define the basic concept and content of psychology for managers, to distinguish between needs and desires, the meaning of giving up and active participation, in the work environment.	4 hours
	77.	Interpersonal relationships (the nature of interpersonal relationships, the importance of social perception in the realization of interpersonal relationships).	1, 2, 3	They listen to a lecture and read literature. In seminar classes, individually, in pairs or groups, they demonstrate the acquisition of previously acquired knowledge and present the acquired knowledge and ideas, discuss problems.	In the written exam, they know how to define the nature of interpersonal relationships, and the importance of social perception in achieving interpersonal relationships, in the work environment. Seminar paper created and presented (using computer programs independently).	4 hours
	78.	Interpersonal relationships (components of interpersonal relationships - verbal and nonverbal expression).	1, 2, 3	They listen to a lecture and read literature. In seminar classes, individually, in pairs or groups, they demonstrate the acquisition of previously acquired knowledge and present the acquired knowledge and ideas, discuss problems.	In the written exam, they can define and explain the components of interpersonal relationships: verbal and non-verbal expression, in a work environment. Seminar paper created and presented (using computer programs independently).	4 hours
	79.	Interpersonal relationships (self- expression, assertiveness, active listening, empathy, rules of communication).	1, 2, 3, 4, 5, 6	They listen to a lecture and read literature. In seminar classes, individually, in pairs or groups, they demonstrate the acquisition of previously acquired knowledge and present the acquired knowledge and ideas, discuss problems.	In the written exam, they can define and explain the components of interpersonal relationships: verbal and non-verbal expression, in a work environment. Seminar paper created and presented (using computer programs independently).	10 hours
	80.	The attitudes and importance of behavioral attitudes (formation and attitude component and behavioral role)	1, 2, 3, 4, 5, 6	They listen to a lecture and read literature. In seminar classes, individually, in pairs or groups, they demonstrate the acquisition of previously acquired knowledge and present the acquired knowledge and ideas, discuss problems.	In the written exam, they know how to define and explain the formation and components of attitude and role in behaviour, and the importance of attitudes to behaviour, in the work environment. Seminar paper created and presented (using computer programs independently).	10 hours
	81.	Attitudes and Importance of Behavioral Attitudes (Mechanisms that Affect the Change of Attitude).	1, 2, 3, 4, 5, 6	They listen to a lecture and read literature. In seminar classes, individually, in pairs or groups, they demonstrate the acquisition of previously acquired knowledge and	In the written exam, they are able to define and describe the mechanisms that influence attitude change in the work environment. Seminar paper created and presented (using computer programs independently).	8 hours

			present the acquired knowledge and ideas, discuss problems.		
82.	Stereotypes and prejudices, stereotypical influence, and prejudice in interpersonal interaction.	1, 2, 3, 4, 5, 6	They listen to a lecture and read literature. In seminar classes, individually, in pairs or groups, they demonstrate the acquisition of previously acquired knowledge and present the acquired knowledge and ideas, discuss problems.	In the written exam, they are able to define and describe stereotypes and prejudices, and the impact of stereotypes and prejudices on interpersonal interaction, in a work environment. Seminar paper created and presented (using computer programs independently).	10 hours
83.	Forms of social behavior (prosocial behavior, aggressive behavior).	1, 2, 3, 4, 5, 6	They listen to a lecture and read literature. In seminar classes, individually, in pairs or groups, they demonstrate the acquisition of previously acquired knowledge and present the acquired knowledge and ideas, discuss problems.	In the written exam they can define and describe forms of social behaviour (prosocial and aggressive behaviour), in a work environment. Seminar paper created and presented (using computer programs independently).	4 hours
84.	Forms of social behavior (social inhibition, formation and role in interpersonal relationships).	1, 2, 3, 4, 5, 6	They listen to a lecture and read literature. In seminar classes, individually, in pairs or groups, they demonstrate the acquisition of previously acquired knowledge and present the acquired knowledge and ideas, discuss problems.	In the written exam, they can define and describe forms of social behaviour (social inhibition and the formation and role of social inhibition in interpersonal relationships), in the work environment. Seminar paper created and presented (using computer programs independently).	6 hours
85.	Morale (theory).	1, 2, 3, 4, 5, 6	They listen to a lecture and read literature. In seminar classes, individually, in pairs or groups, they demonstrate the acquisition of previously acquired knowledge and present the acquired knowledge and ideas, discuss problems.	In the written exam, they can define and describe theories of moral development in the work environment. Seminar paper created and presented (using computer programs independently).	8 hours
86.	Moral (tolerance).	1, 2, 3, 4, 5, 6	They listen to a lecture and read literature. In seminar classes, individually, in pairs or groups, they demonstrate the acquisition of previously acquired knowledge and present the acquired knowledge and ideas, discuss problems.	In the written exam, they are able to define and describe morale in relation to tolerance in the work environment. Seminar paper created and presented (using computer programs independently).	8 hours
87.	Social skills: the foundation of human relationships (formation of social skills and their role in communication).	1, 2, 3, 4, 5, 6	They listen to a lecture and read literature. In seminar classes, individually, in pairs or groups, they demonstrate the acquisition of previously acquired knowledge and present the acquired knowledge and ideas, discuss problems.	In the written exam, they are able to define and explain social skills as the basis for interpersonal relationships (the way social skills are formed and their role in communication, in the work environment). Seminar paper created and presented (using computer programs independently).	10 hours
88.	Social skills: the foundation of human relationships (social competence).	1, 2, 3, 4, 5, 6	They listen to a lecture and read literature. In seminar classes, individually, in pairs or groups, they demonstrate the acquisition of	In the written exam, they are able to define and describe social competence as a social skill. Seminar paper created and presented (using computer programs independently).	6 hours

					previously acquired knowledge and present the acquired knowledge and ideas, discuss problems.					
	89. The conflict and peaceful conflict resolution.		1, 2, 3, 4, 5, 6	They listen to a lecture literature. In seminar c individually, in pairs c demonstrate the acquis previously acquired kn present the acquired kn ideas, discuss problem	re and read classes, or groups, they isition of cnowledge and knowledge and snowledge and knowledge		exam, they can define and describe n-violent conflict resolution, for a work environment. created and presented (using rams independently).	6 s hours		
	90.	0. Repetition. Instructions for exam. Signatures.		6	Listen to the lecture and individual preparation for the exam.				20 hours	
3. EVALUATION OF STUDEN	T WO	RK								
3.1. Students' obligations	Full-time students are required to attend a minimum of 70% of lectures and a part-time minimum of 30% of lectures. All students are required to select topics, create, present and defend to seminar papers (one with Croatian and the other with English used literature; submit in text and present; seminar paper consists of a minimum of 10 pages: cover, content, introduction, present and the consultation of the course as preparation for the written examination Seminar papers are sent for review by e-mail (gina@vus.hr) Students are advise attend the consultation at the time of the consultation or for some the second term. Teaching information and teaching materials are available on the website of the Polytechnic (http://www.vus.hr).						present and defend two ent, introduction, paper, Students are advised to			
3.2 Monitoring student work	Attendance		1	Writt		3		Project	/	
(enter the share of ECTS credits	Experimental work		/	Resea	rch	/		Practical work	/	
for each activity so that the total number of ECTS points	Essay		/	Repor	t	/		Continuous examination	/	
corresponds to the credit score	Colloquium		/ <u>S</u>		nar paper 1		Other (inscribe)		/	
of the course)	Class activities /			Oral exam		/		Other (inscribe)	/	
3.3. Student workload	The student's workload on all bases amounts to 1 ECTS point for 30 ho Commitment 7. Attending classes 8. Creating and Presenting seminar paper 9. Preparation for the Colloquium / exam through self-study				pint for 30 hours of	s of work per semester and is estimated as: Hours (estimate) 45 20 85				
4. GRADING										

	Valuation Elem	aluation Element Poor			Satisfying			Above average			
4.1. Seminar paper grading	Organization		The paper is not organized in a logical order and its structure is lacking.		The paper is well structured with a clear distinction between the introduction, the main part of the text and the conclusion.		clear 1, the sion.	The paper is well-structured with a clear distinction between the introduction, the main part of the text and the conclusions that are perfectly logically linked to one another			
	Terminology, writing style		Words and phrases are low harmonized with official terminology. Writing style is not appropriate, sentences are too long, modest vocabulary, and frequent and repeated grammatical mistakes.		Words and phrases are aligned with off terminology. The writing style is appropriate, the sentence structure is cl the vocabulary is appropriate and has 1 grammatical errors.		a official as clear, as little	icial Words and phrases are aligned with of terminology and show an understandin their meaning. The writing style is excellent, the sentences are clear and concise, the vocabulary is rich and the are no grammatical errors.			
	Quoting and refe	erencing Sources are not specified a superficial approach to		l at all. The the topic and show the research topic.		s are listed, but incomplete and with The references are appropriate for ject and show a satisfactory research		Sources are accurate, complete and consistent. The references are appropriate, their list is "rich" and comprehensive and shows a robust research approach.			
		Poo	or		Satisfying			Above average			
4.2. Colloquium / exam grading	Give answer by memory, r Does not know and does n and concepts. Cannot apply of the course.		o deeper understanding. apply the basic terms or explain the contents	Reproduces basic terms, without di new knowledge, understands subject the terms and the notions that examples.		hout difficulty transfers subject matter, explains s that substantiate by hout difficulty transfers subject matter, explains that is that substantiate by that it er originall correlati		edge is at the level of analysis, synthesis and ion. It observes legitimacy, accurately and ghly explains the content of the subject, and ly links and explains the terms and concepts encapsulates. Find solutions that are not lly given. There is a correlation with tive subjects.			
	Active participation in the		Active participation in the		70-75% of attendance	76-8	6% of attendance	87-10	0% of atten	dance	Created mental map. Solved case study.
	lessons	2 points		4 points		7 points			3 points		
	Seminar paper		2	3		4			5		
4.3. Creating a final grade	Seminar paper		5 points	7 points		8 points			10 points		
elements			2		3		4		5		
	Colloquium / written		50-64,9%	65-79,9%		80-89,99		90-100%			
			25 points		30 points		35 points	ts 40 points			
	Oral exam	2			3		5		5		
		-	25 points		30 points		35 points		40 points		
		Percentage	e of adopted knowledge, skills	and competences (tead	ching + final exam)	Numerous grade	EC	TS grade	4		
4.4. Creating a final grade			80-8	<u> </u>		4 (very good)		B	4		
according to absolute allocation			65 – 7	65 - 79,9%		3 (good)		С	1		
			60 - 6	64,9%		2 (sufficient)		D			

			50 50 00/		2 (Б				
			50-59,976		2 (sufficient)	E				
5 ADDITIONAL INFORMATION ADOUT THE COURSE										
5. ADDITIONAL INFORMA		E COURSE								
5.1. Compulsory literature			Title				Number of copies in the library	Availability via other media		
(available in the library and through other media)	1. Penington, D. (19 107; Poglavlje 5: 185; Poglavlje 10	Penington, D. (1997). Osnove socijalne psihologije, Poglavlje 3: Socijalizacija II, str. 57-81, Poglavlje 4. Stavovi i promjena stava, str. 82- 107; Poglavlje 5: Predrasude i sukobi, str. 108-133; Poglavlje 6. Socijalna spoznaja I, str. 134-162; Poglavlje 7: Atribucijski pristup, str. 163- 185; Poglavlje 10: Društveni utjecaj, str. 244-271; Poglavlje 11: Grupe i grupni uradak, str. 272-302. Jastrebarsko: Naklada Slap.					5			
	 Knapp, M. L., Hall, J. A. (2010). Neverbalna komunikacija u ljudskoj interakciji, Prvi dio, str. 1-3, 5-17; str. 71-96; Drugi dio: str. 143-167. Jastrebarsko: Naklada Slap. 						5			
5.2. Additional literature (at the moment of changes and/or	 Yukl, G. (2008). Rukovođenje u organizacijama, 2. poglavlje: priroda rukovoditeljskog posla, str. 23-50; 7. poglavlje: Osobine, sposobnosti i vještine rukovoditelja, str. 179-212; 13. poglavlje: Razvoj rukovoditeljskih sposobnosti i vještina, str. 382-412. Jastrebarsko: Naklada Slap. Bhagoria, A. (2012). Managing Business Through Human Psychology. <u>http://www.free-ebooks.net/ebook/Managing-Business-Through-Human-Psychology-A-Handbook-for-Entrepreneur/pdf/view</u> 						5			
amended of study programme)							pdf	Avanable On-Inte		
5.3. Quality assurance methods that ensure the acquisition of knowledge, skills and competences	The control of students - by keeping track of - provided information - information for fu - students will be in Indicators of quality as Alumni association.	s' work quality and the acquis of attendance and student acti- tion on students' progress thr rther guidance to students wi aformed about their rights and surance system: Student surv	sition of necessary knowledge and s ivity during classes and rough short colloquiums and homew ill be provided in order to increase t d obligations as well as the methods vey, monitoring of annual data from	kills will be ensured thro rork he efficiency of their wo s of work and the require n the Croatian employme	ough interactive work ork ed literature. ent service on the ann	: ual state of stud	ent employment, surve	ys from employers and		
5.4. information on the course and contact with the teacher	It is obligatory for even pages of the course and can be addressed durin working days from the	y student to regularly inform d on the web pages of the Pol g classes. It is possible to ask receipt of e-mail).	n about the course, teaching and tead lytechnic. Students can contact the t k questions by e-mail (from the offic	ching activities. All infor eachers during the consu cial e-mail address from	rmation about teachir ultation term (at least the domain @ vus.hr	g or any delay i one hour per we) that will be an	n teaching will be publ eek), while brief question swered in a short time	ished on the e-learning ons and explanations (no later than five		