

DESCRIPTION OF A STUDY COURSE – SYLLABUS

Title of a course	Information System for Management and Decision-making support				
Head of course	PhD Sabrina Šuman, Senior Lecturer				
Study programme	Professional undergraduate study Information Science				
Status of a course	Elective				
Year of study	3.	Semester	V	ECTS credits	5
Teaching plan (L + E + S+ Pr)	2+2+0+0				
Goals of a course					
Adopt concepts of business management area with the support of business analysis software and methods.					
Conditions for enrolling course					
No conditions					
Learning outcomes on a level of a study programme which includes course					
Outcome 2: Apply business information system design methods. Outcome 4: Develop an application solution for the Internet and desktop environment. Outcome 14: Apply mathematical and statistical methods in information science.					
Expected learning outcomes on a level of a course					
<ol style="list-style-type: none"> 1. Categorize decision-making problems and relate them to the level and type of decision-making 2. Analyse information system functions that influence decision-making and management 3. Explain parts of the decision-making support system 4. Apply statistical methods 5. Generate reports using multidimensional analysis 6. Create a survey questionnaire and interpret the obtained results 7. Build an interactive multi-criteria decision-making model 					
Content of a course					
<p>Information systems for management support. Systems for decision support. Systems for group decision support. Data warehouses. Data warehouses methodology development. Systems for analytical data processing. Data mining. Expert systems. Bases of knowledge.</p> <p>Students perform tasks of collecting and presenting information for management and decision support. Every task is presented and evaluated.</p>					
Teaching modes	<input checked="" type="checkbox"/> lectures <input type="checkbox"/> auditory exercises <input checked="" type="checkbox"/> seminars and workshops <input type="checkbox"/> distance learning <input type="checkbox"/> field classes		<input checked="" type="checkbox"/> individual assignments <input type="checkbox"/> multimedia and network <input type="checkbox"/> laboratory <input type="checkbox"/> supervisor's work <input type="checkbox"/> other _____		
Comments					
Students' obligations					
Completed homework and submitted within the given deadline is a prerequisite for taking the full exam.					
Grading, evaluation and monitoring of students' work continuously during lectures and exams					
Grading is based upon evaluation of course's learning outcomes' adoption. Grading is performed continuously during lectures and/or during exam, in compliance with the provisions of Regulation on the assessment of students.					

Continuous check-up:

Outcomes	Written test	Practical work 1	Practical work 2	Home assignment	Threshold	Max
Outcome 1	10%				5%	10%
Outcome 2	10%				5%	10%
Outcome 3	10%				5%	10%
Outcome 4				10%	5%	10%
Outcome 5				15%	7,5%	15%
Outcome 6		20%			10%	20%
Outcome 7			25%		12,5%	25
Percentage of ECTS	1,5	1	1,25	1,25		
Total	30 %	20 %	25%	25%	50 %	100 %

A student has passed the exam if he has acquired a percentage of credits for each learning outcome higher or equal to defined threshold.

Exam term:

Outcomes	Written exam	Oral exam	Threshold	Max
Outcome 1		10 %	5%	10 %
Outcome 2		10 %	5%	10 %
Outcome 3		10 %	5%	10 %
Outcome 4	10 %		5%	10 %
Outcome 5	15%		7,5%	15 %
Outcome 6	20 %		10%	20%
Outcome 7	25%		12,5%	25%
Percentage of ECTS	3,5	1,5		-
Total	70 %	30 %	50%	100 %

A student has passed the exam if he has acquired a percentage of credits for each learning outcome higher or equal to defined threshold.

Grading:

A student has passed the exam if he has acquired at least 50% of anticipated credits of a specific learning outcome.

If a student has passed learning outcomes of all courses, the accomplished credits (percentages) of all passed learning outcomes are being added, while the final grade is defined upon following table:

Range of credits (percentages)	Numerical grade	ECTS grade
90,00 – 100,00	Excellent (5)	A
75,00 – 89,99	Very good (4)	B
60,00 – 74,99	Good (3)	C
50,00 – 59,99	Sufficient (2)	D
0,00 – 49,99	Insufficient (1)	F

Obligatory literature

- Šuman, S., Sustavi za potporu odlučivanju i upravljanju- teorija i riješeni primjeri, Veleučilište u Rijeci, 2016. Skripta dostupna u knjižnici.

Additional literature

- Turban, E., Sharda, R., Delen, D, Decision support and business intelligence systems, Pearson (international edition), 9-th edition, 2011.

