

DESCRIPTION OF A STUDY COURSE – SYLLABUS

Title of a course	System Design in Telematics				
Head of course	Emil Prpić, Lecturer Ivan Grakalić, Lecturer				
Study programme	Professional undergraduate study Telematics				
Status of a course	Obligatory				
Year of study	2.	Semester	IV	ECTS credits	
Teaching plan (L + E + S+ Pr)	2+2+0+0				
Goals of a course					
Introduce students with practical aspects of designing and documenting simple telematic systems.					
Conditions for enrolling course					
No conditions					
Learning outcomes on a level of a study programme which includes course					
Expected learning outcomes on a level of a course					
<ol style="list-style-type: none"> 1. Properly interpret the Croatian legislation related to the design work and the project phases and levels 2. Describe the types and architecture of telematics system assemblies, as well as their associated cables and their selection 3. Independently use design tools (AutoCAD, etc.) 4. Independently create project documentation for a smaller telematics system 5. Use computer and telecommunications infrastructure as the basis for project development 					
Content of a course					
Basic definitions of a system. Interactions between systems, processes and environment. Basics of information systems. Basics of connecting systems: computer networks and basics of telecommunication systems. Examples of telematics systems within company and transportation. Basics of system's and projects' design. Definition and purpose of a project. Specificities of HW projects in comparison to SW project. Phases of development project. Project management. Processes and tools of development. Sorts of circuits. Architecture of circuits. Project documentation. Quality insurance.					
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					
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	Pre-exam I	Practical pre-exam	Interactive workshops	Threshold	Max
Outcome 1	15%			7,5%	15%
Outcome 2	15%			7,5%	15%
Outcome 3		20%		10%	20%
Outcome 4			25%	12,5%	25%
Outcome 5			25%	12,5%	25%
Percentage of ECTS	1,5	1	2,5		5
Total	30%	20%	50%	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	Max
Outcome 1	5%	10%	15%
Outcome 2	5%	10%	15%
Outcome 3	5%	15%	20%
Outcome 4	0%	0%	0%
Outcome 5	0%	0%	0%
Percentage of ECTS			
Total	15%	35%	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

1. Autorizirana predavanja
2. Zakon o gradnji
3. Grupa autora: "Uvod u projektiranje sustava za dojavu požara". Alarm automatika, Rijeka 2010.
4. T. Norman. "Integrated Security Systems Design", Butterworth-Heinemann, 2007.

Additional literature

1. A. Bhatia, "The MEP Design of Building Services", <http://cedengineering.com>

