

DESCRIPTION OF A STUDY COURSE – SYLLABUS

Title of a course	Telematics in Transport				
Head of course	Damir Pilepić, Lecturer				
Study programme	Professional undergraduate study Telematics				
Status of a course	Obligatory				
Year of study	3.	Semester	V	ECTS credits	6
Teaching plan (L + E + S+ Pr)	2+2+0				
Goals of a course					
Introduce students to intelligent transport systems (ITS), basic principles of intelligent traffic management. Familiarize students with ITS systems that are implemented in vehicles, garage and parking facilities, traffic control, passenger / driver information.					
Conditions for enrolling course					
No conditions					
Learning outcomes on a level of a study programme which includes course					
Outcome 9: Explain the basic methods of automatic system control and apply them to telematics systems. Outcome 10: Analyse and implement an information system in the field of telematics. Outcome 15: Participate in teamwork and independently present professional content in written and spoken form in Croatian and English.					
Expected learning outcomes on a level of a course					
<ol style="list-style-type: none"> 1. Define intelligent transport systems and their area that telematics in transport deals with 2. Properly describe the taxonomy and standardization of ITS services, as well as ITS services within specific areas 3. Define ITS systems used in transport management and control 4. Describe ITS systems that are in service of security, informing passengers and drivers, location services and transport terminals 5. Research and present professional topics from the field covered by the course 					
Content of a course					
Basic structure and function of ITS. Defining the transport resources management system in a company as well as the objectives of navigating vehicles in motion. Telematic system for logistics, surveillance and protection of a vehicle fleet. PROMETHEUS, GALILEO and EGNOS. Integration of Standardized Technologies GPS+GMS+Internet=GTTS. EDIFACT and integrated information system used to connect all the participants in public transport in a functional and dynamic way. Systematic analysis of narrative and financial effects of ITS in transport companies.					
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	Pre-exam 2	Oral presentation	Home assignment (program)	Threshold	Max
Outcome 1	20				10	20
Outcome 2	20				10	20
Outcome 3		20			10	20
Outcome 4		20			10	20
Outcome 5			10	10	10	20
Percentage of ECTS	2	2	0,5	0,5		
Total	40	40	10	10	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	10	10	20
Outcome 2	10	10	20
Outcome 3	10	10	20
Outcome 4	10	10	20
Outcome 5	10	10	20
Percentage of ECTS	2,5	2,5	
Total	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.

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. Bošnjak, I.: Inteligentni transportni sustavi 1, Fakultet prometnih znanosti Zagre, Zagreb, 2006.

Additional literature

1. Materials from lectures, prepared by: M.Sc. Ivica Barisic, 2012,
2. Journal articles

