

Faculty of Science and Mathematics / COMPUTER SCIENCE / VISUALIZATION AND COMPUTER GRAPHICS

Course:	VISUALIZATION AND COMPUTER GRAPHICS			
Course ID	Course status	Semester	ECTS credits	Lessons (Lessons+Exercises+Laboratory)
1349	Mandatory	4	4	2+1+0
Programs	COMPUTER SCIENCE			
Prerequisites	No prerequisites			
Aims	The course has a goal to make students able to use English for specific purposes in the area of computer science.			
Learning outcomes	After students pass the exam, they will be able to: - understand the messages of expert discourse of the topic they often come across (computer viruses, communication protocols, programming languages, the concept of the Internet), as well as the basic messages of more complex texts, - orally express topics on computer related topics in a relatively fluent way, using complex structures, exchange information and participate in conversations in English, - use grammar constructions at upper intermediate level, - write a short composition from known thematic areas, - make a presentation in English.			
Lecturer / Teaching assistant	Savo Kostić			
Methodology	Lectures and practice. Presentations in English on a topic studied. Studying for mid term and final exams. Consultations.			
Plan and program of work				
Preparing week	Preparation and registration of the semester			
I week lectures	"Computer users", reading comprehension, listening, discussion Grammar - revision of past tenses			
I week exercises				
II week lectures	"Computer architecture", reading comprehension, listening, discussion Grammar - spatial prepositions			
II week exercises				
III week lectures	"Computer applications", reading comprehension, listening, discussion Grammar - present tense passive			
III week exercises				
IV week lectures	"Peripherals", reading comprehension, listening, discussion Grammar - comparison and contrast			
IV week exercises				
V week lectures	"Interview - former student", listening, discussion Grammar - past tenses questions			
V week exercises				
VI week lectures	"Operating systems", reading comprehension, listening, discussion Grammar - "-ing" forms as nouns and after prepositions			
VI week exercises				
VII week lectures	Mid-term exam			
VII week exercises				
VIII week lectures	"Graphical user interface", reading comprehension, listening, discussion Grammar - object constructions			
VIII week exercises				
IX week lectures	"Application programs", reading comprehension, listening, discussion Grammar - complex instructions			
IX week exercises				
X week lectures	"Multimedia", reading comprehension, listening, discussion Grammar - "-ing clauses", cause and effect			
X week exercises				
XI week lectures	"Interview - computing support", reading comprehension, listening, discussion Grammar - if sentences			
XI week exercises				
XII week lectures	"Interview - revision", reading comprehension, listening, discussion Grammar - conditional sentences -			

	revision					
XII week exercises						
XIII week lectures	"Software engineering", reading comprehension, listening, discussion Grammar - if X then Y					
XIII week exercises						
XIV week lectures	"Software engineering", revision Grammar - advantages and disadvantages					
XIV week exercises						
XV week lectures	Preparation for the final exam					
XV week exercises						
Student workload	2 classes, 45 minutes each					
Per week			Per semester			
4 credits x 40/30=5 hours and 20 minuts 2 sat(a) theoretical classes 0 sat(a) practical classes 1 excercises 2 hour(s) i 20 minuts of independent work, including consultations			Classes and final exam: 5 hour(s) i 20 minuts x 16 =85 hour(s) i 20 minuts Necessary preparation before the beginning of the semester (administration, registration, certification): 5 hour(s) i 20 minuts x 2 =10 hour(s) i 40 minuts Total workload for the subject: 4 x 30=120 hour(s) Additional work for exam preparation in the preparing exam period, including taking the remedial exam from 0 to 30 hours (remaining time from the first two items to the total load for the item) 24 hour(s) i 0 minuts Workload structure: 85 hour(s) i 20 minuts (cources), 10 hour(s) i 40 minuts (preparation), 24 hour(s) i 0 minuts (additional work)			
Student obligations			Students need to regularly attend classes, make a presentation and take a mid term and a final exam.			
Consultations			once a week for 2 hours			
Literature			Infotech - English for computer users, Santiago Ramacha Esteras			
Examination methods			Presentation - 25 points, Mid-term exam - 25 points, Final exam - 50 points			
Special remarks			Classroom language is English			
Comment			/			
Grade:	F	E	D	C	B	A
Number of points	less than 50 points	greater than or equal to 50 points and less than 60 points	greater than or equal to 60 points and less than 70 points	greater than or equal to 70 points and less than 80 points	greater than or equal to 80 points and less than 90 points	greater than or equal to 90 points