1.	Course title	Intelligent User Interfaces					
2.	Course code	IIS-I-03					
3.	Study program	Master degree in Computer Science and Engineering Study program: Intelligent Information Systems					
4.	Unit offering the course	FCSE					
5.	Undergraduate/master/PhD	Master					
6.	Year/semester 1/winter/eective	7. ECTS: 6					
8.	Teacher(s)	dr. Sonja Gievska					
9.	Course prerequisites	None					
10.	 and technologies for design and development of intelligent user interfaces. A special importance will be given to the scientific design approach based on relevant theoretical and empirical research following the state-of-the-art trends in intelligent technologies, cognitive science and paradigms of interactive design as they pertain to the user interface design. After completion of the course the student is expected: to have a knowledge of the theoretical and empirical research, which are the foundation for the new approaches in intelligent user interface design to know the techniques and methodologies for designing and implementation of intelligent interfaces to demonstrate a capacity and skills to select the methods for analysis, design and implementation of a user interface that are most suitable for the domain and problem of interest to demonstrate the skills to apply the advanced technologies and the state-of-the-art paradigms in intelligent interface design for a selected application domain, scenario, or context of use to demonstrate a capacity to design a suitable evaluation procedure to validate a user interface at different stages of its design 						
11.	Course content: A selected list of topics follows: Design of user-centred intelligent interaction Methodologies for user interface design: User-Activity-Context-Technology, Scenario-based design, User Experience UX design Mobile, pervasive intelligent interfaces. Smart spaces and environments Affective interaction Captology as a basis for designing persuasive interfaces Modelling users and groups Modelling situations, activities and behaviour in various contexts of use Visualization and multimodal interaction Cognitive modelling – attention, task analysis, distributed cognition Agent-based approach in intelligent user interface design Application domains and case studies Evaluation of intelligent interfaces: Experimental design						
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	softwa	re packa	iges), team work, case st	udie	nteractive lectures, training s, invited guests and lecture	es, individual pra			
13.		assignments presentations, seminar paper, e-learning (forums, consultations). Total available time 6 ECTS x 30 hours = 180 hours							
14.			the available time			135 = 180 hours	3		
15.	Teaching activities			5.1.	Lectures		30 hours		
				5.2.	Training (labs, problem solving), seminar and tea work	m 15 hours			
16.	Other activities 16.3			6.1.	Project work	60 hours			
				6.2.	Self study		25 hours		
				6.3.	Home work		50 hours		
17.	Gradin	_							
	17.1.	Γests					15 points		
	17.2.	Seminar work/project (written or oral presentation)					75 points		
	17.3.	Active p	participation			10 points			
					to 59 points	5 (five) (F			
	Grading criteria				from 60 to 68 points	` ' ' '			
18.					from 69 to 76 points	` ' ' '			
10.				_	from 77 to 84 points	\ \ \ \			
					from 85 to 92 points	` / `			
					from 93 to 100 points 10 (ten) (A)				
19.	Final exam prerequisites				Successfully completed activities 15.1 and 15.2				
20.	Course language				Macedonian and English				
21.	Quality assurance methods Internal evaluation and student questionnaire					naires			
22.	Literature								
	Compulsory								
	22.1.	No.	Authors		Title	Publisher	Year		
		1.	J. Jacko & A. Sears (Eds.)		The Human-Computer Interaction Handbook: Fundamentals, Evolving Technologies and Emerging Applications	Lawrence Erlbaum Associates	2009		
		2.	D. Benyon, P. Turner, and S. Turner		Designing Interactive Systems. People, Activities, Contexts, Technologies, Third Edition	Addison Wesley	2005		
		3.	Michael Wooldridge		An Introduction to Multiagent Systems (2nd Edition)	John Wiley & Sons Ltd	2009		
1	22.2. Additional								

	No.	Authors	Title	Publisher	Year
1. 2. 3.	1.	Selected authors	A selected list of scientific papers from relevant conferences and journals		
	2.				
	3.				