Course Name : User Interface

Course Code	Course Type	Regular Semester	Lecture (hours/week)	Seminar (hours/week)	Lab. (hours/week)	Credits	ECTS
CMP 317	B	Fall	2.00	0.00	2.00	3.00	6.00

Lecturer	Edlir Spaho, MSc
Assistant	
Course language	Albanian
Course level	Bachelor
Description	In this injury will be addressed the topic that will include methods as well as the importance of human factors, sensitive human, conjectural and physical characteristics as well as the implementation of known practice. If you use the topic that will address the students you will get acquainted with the cycle and life of the product that needs to be designed, implemented and evaluated focusing on its user.
Objectives	
Core Concepts	1. The user interface is the hardware-software combination that facilitates communication between the user and the computer. 2. Human-computer interaction (HCI) is a discipline that deals with the design, evaluation and implementation of iterative systems used by humans and studies the key aspects that surround them. 3. HCI originates in two very different disciplines: - Ergonomics (ergon: work; nomos: law) - Computer science. ... etc.

Course Outline

Week	Topic
1	1 Login to the user interface History • A brief history and general knowledge of the subject. • Different concepts on the user interface.
2	2 Applied User Interface and Iterative Systems • Human-computer interaction in the interdisciplinary environment • Problems related to the user interface • Architecture and Software tools • User interface in iterative systems
3	3 Processing of human information • Perception • Motor skills • Memory • Decision making • Attention • Visions
4	4 Get to know the user • User description levels
5	5 Conceptual models and metaphors • Patterns in user interface design • Danger of the user model • Interactive style comparisons • Suggestions for direct manipulation • Modeling human error
6	6 User-centric design • User interface design with waterfall model • Iterative design • Spiral model • How user analysis is done
7	7 Design Principles • Heuristics • 10 Nielsen rules • 16 principles of Bruce Tognazzin • 8 Schneiderman Golden Rules • 7 principles of dialogue according to ISO 9241-110: 2006
8	8 Semi-final exam
9	9 Engineering and creativity • Creation processes
10	10 Graphic Design • Simplicity • Contrasts • Space • Balance • Color
11	11 Prototypes • Reasons for building prototypes • Classification of prototypes • Prototype fidelity • Prototype on paper • Hypertesthetic prototypes
12	12 Usability assessment • Heuristic Assessment • Usability tests

13	13 Design for the user • To design and realize • Traditional design • Human-based design • Universal design
14	14 Input data models and results presentation models • Types of input events • Elements that are considered when choosing a presentation model • Drawing on component model
15	15 Accessibility • Types of injuries • Assistive technology • Accessibility directive
16	Final Exam

Prerequisites	The student must attend the course at a minimum rate of 75%.
Literature	• Designing the User Interface: Strategies for Effective Human-Computer Interaction, 5/EBen Shneiderman, Catherine Plaisant, Maxine Cohen, Steven Jacobs ISBN-13: 9780321537355
References	• Human-computer Interaction By Alan Dix, Alan John Dix, Janet Finlay, Gregory D. Abowd, Russell Beale

Course Outcome

1	Në përfundim të këtij kursi studentët do të jenë në gjendje të kuptojnë që, bashkëveprimi njeri-kompjuter është studimi i njerëzve, i teknologjive informatike dhe i mënyrave se si këta veprojnë mbi njëri-tjetrin me qëllim që të përcaktohet se si mund të bëhen teknologjitë më të përdorshme për njerëzit.
2	Të realizojnë një kombinimi hardwaer- softwaer që lehtëson komunikimin ndërmjet përdoruesit dhe kompjuterit.
3	Të projektojn, vlerësojn dhe implementojn sistemet iterative që përdoren nga njerëzit dhe studiojn aspektet kryesore që i rrethojnë
4	Arritja e ndertimit të ndërfaqjeve efektive Njeri-Kompjuter.

Course Evaluation

In-term Studies	Quantity	Percentage
Midterms	1	50
Quizzes	0	0
Projects	0	0
Term Projects	0	0
Laboratory	0	0
Class Participation	0	0
Total in-term evaluation percent		**50**
Final exam percent		**50**
Total		**100**

ECTS Workload (Based on Student Workload)

Activities	Quantity	Duration (hours)	Total (hours)
Course duration (Including the exam week: 16x Total hours of the course)	16	4	64
Study hours outside the classroom (Preparation, Practice, etc.)	14	5	70
Duties	0	0	0
Midterms	1	6	6
Final Exam	1	10	10
Other	0	0	0
Total Work Load			**150**
Total Work Load / 25 (hours)			**6.00**
ECTS			**6.00**