### **COURSE PROFILE**

Course Name	Code	Semester	Term	Theory+PS+Lab (hour/week)	Local Credits	ECTS
Human Computer Interaction	IT423	Fall	7	3 + 0 + 0	3	6

Prerequisites	None
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Course Language	English
Course Type	Departmental Elective
Course Lecturer	Assist. Prof. Dr. Fatih Özaydın
Course Assistant	Murat Kaya
Course Objectives	This course aims to provide fundamental concepts in Human Computer Interaction (HCI) and provide skills for analysis, design and implementation for a range of real world problems on HCI.
Course Learning Outcomes	<ul> <li>By the end of the course, students should be able to <ul> <li>understand fundamental concepts in HCI;</li> <li>carry out a range of different types of user study and usability study;</li> <li>produce different types of low-fidelity and mid-fidelity prototypes;</li> <li>explain the entire design lifecycle, and implement a complete user-centered design process including user studies, prototyping, and evaluation;</li> <li>critically assess different methods and approaches in HCI; and be able to provide such critique in applied settings;</li> <li>describe implementation, and justify approach to, user-centered design processes for a range of real-world scenarios.</li> </ul> </li> </ul>
Course Content	Basics of HCI. Affective Aspects. Data gathering. Data analysis, interpretation, and presentation. The process of ID. Requirements, design, prototyping, construction, and evaluation. Usability testing and field studies.

### **COURSE CONTENT**

Week	Subjects	Related
1	Introduction: What is ID?	
2	Understanding and conceptualizing interaction	
3	Understanding users	
4	Designing for collaboration and communication	
5	Affective aspects	

6	Data Gathering	
7	Data analysis, interpretation, and presentation	
8	The process of ID	
9	Identifying the needs and establishing requirements	
10	Design, prototyping, and construction	
11	Introducing evaluation	
12	An evaluation framework: DECIDE	
13	Usability testing and field studies	
14	Final	

Course Textbook	Interaction Design Beyond Human-Computer Interaction, Yvonne Rogers, Helen Sharp, Jenny Preece, Wiley, 2nd Ed.
Recommended References	

Semester Requirements	Number	Percentage of Grade
Attendance/Participation		10
Laboratory		
Application		
Special Course Internship (Work Placement)		
Quizzes/Studio Critics		
Homework Assignments		30
Presentation		
Project		
Seminar/Workshop		
Midterms/Oral Exams		30
Final/Resit Exam		30
Total		100

PERCENTAGE OF SEMESTER WORK	70
PERCENTAGE OF FINAL WORK	30
Total	100

Course Category	Core Courses	
	Major Area Courses	Х
	Supportive Courses	
	Media and Management Skills Courses	
	Transferable Skill Courses	

#### COURSE'S CONTRIBUTION TO PROGRAM

	# Program Qualifications / Outcomes		vel of	Con	tribu	ition
#			2	3	4	5
1	A foundation in mathematics and basic sciences and ability to apply acquired knowledge as they relate to the study and practice of information technology					x
2	An ability to analyze a problem, identify and define the computing requirements appropriate to its solution, to understand, select and use appropriate technology, tools, standards, protocols, building blocks, and components to solve the problem					x
3	An ability to propose, analyze, design, develop, test and maintain an information technology system including software solutions, security model, computer and network infrastructure, information systems etc. to solve information technology problems			x		
4	An ability to analyze local and global impact of computing on individuals, organizations and society; and the ability to apply information technology techniques, skills, and tools for regular computing practices as well as to improve effectiveness of current methodologies	x				
5	An ability to effectively communicate in oral and written media with all kinds of related audiences; and prepare documentation for this purpose as required	x				
6	An understanding of professional, ethical, legal, and social issues and responsibilities of information technology profession		х			
7	A taste and breadth of knowledge across several social topics outside the immediate requirements of the information technology profession, and the ability to work within heterogeneous teams to accomplish a common goal including people from the information technology area as well as other disciplines		x			
8	An ability to engage in life-long learning and professional development for personal improvement to follow contemporary information technology issues					

\*1 Lowest, 2 Low, 3 Average, 4 High, 5 Highest

Activities	Number	Duration (Hours)	Total Workload
Course Hours (Including Exams)	14	3	42
Tutorials			
Laboratory			
Application	14	3	42
Special Course Internship (Work Placement)			
Field Work			
Study Hours Out of Class	14	2	28
Presentations / Seminar			
Project			
Preparatory reading	14	2	28
Homework Assignments			
Quizzes	4	1	4
Midterm Exams	2	2	4
Final / Resit Exam	1	2	2
		Total Workload	150

# ECTS ALLOCATED BASED ON STUDENT WORKLOAD BY THE COURSE DESCRIPTION

ISCED GENERAL AREA CODES	GENERAL AREAS	ISCED BASIC AREA CODES	BASIC EDUCATIONAL AREAS	
1	Education	14	Teacher Training and Educational Sciences	
2	Humanities and Art	21	Art	
2	Humanities and Art	22	Humanities	
3	Social Sciences, Management and Law	31	Social and Behavioural Sciences	30
3	Social Sciences, Management and Law	32	Journalism and Informatics	
3	Social Sciences, Management and Law	38	Law	
4	Science	42	Life Sciences	
4	Science	44	Natural Sciences	
4	Science	46	Mathematics and Statistics	20
4	Science	48	Computer	20
5	Engineering, Manufacturing and Civil	52	Engineering	30
5	Engineering, Manufacturing and Civil	54	Manufacturing and Processing	
5	Engineering, Manufacturing and Civil	58	Architecture and Structure	
6	Agriculture	62	Agriculture, Forestry, Livestock, Fishery	
6	Agriculture	64	Veterinary	
7	Medicine and Welfare	72	Medical	
7	Medicine and Welfare	76	Social Services	
8	Service	81	Personal Services	l.
8	Service	84	Transport Services	
8	Service	85	Environment Protection	
8	Service	86	Security Services	

# **COURSE CATEGORY**