

COURSE INFORMATION					
Course Title	<i>Code</i>	<i>Semester</i>	<i>L+P+L Hour</i>	<i>Credits</i>	<i>ECTS</i>
Scientific Research Methods and Publication Ethics	CIS 501		3 + 0 + 0	3	10

Prerequisites	-
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Language of Instruction	English
Course Level	Master's Degree
Course Type	Core
Course Coordinator	
Instructors	
Assistants	
Goals	<p>This course focuses on advanced research techniques that can be applied in scientific research and the conceptual framework of scientific research. Descriptive, relational, causal comparative and experimental designs in quantitative research; In qualitative research, approaches are developed with grounded theory, grounded theory and event analysis. A new research proposal is developed by analyzing an existing research.</p> <p>Descriptive, relational, causal comparative and experimental designs in quantitative research; In qualitative research, approaches are developed with grounded theory, grounded theory and event analysis. A new research proposal is developed by analyzing an existing research.</p>
Content	<p>All kinds of scientific/artistic research and studies, scientific/artistic activities carried out, scientific/artistic research-development projects supported and/or carried out, research ethics issues related to scientific/artistic research-development projects carried out with thesis and scientific publications made during graduate education research ethics issues, publication ethics problems and ethical violations related to all kinds of publications published in audiovisual media or sent for publication; It covers plagiarism, forgery, distortion, republishing, slicing and unfair authorship.</p>

Learning Outcomes	Programme Learning Outcomes	Teaching Methods	Assessment Methods
1) Learn research techniques		1,2,3,4	A,B
2) Learn research techniques in literature		1,2,3,4	A,B
3) Reads examples and evaluates them		1,2,3,4	A,B

4) Discusses the issue of plagiarism, learns scientific approaches.	1,2,3,4	A,B
5)Makes the distinction between scientific publication and popular publication.	1,2,3,4	A,B
6)Learns and questions publishing principles through cultural changes.	1,2,3,4	A,B
7)Acquires editorial skills.	1,2,3,4	A,B

Teaching Methods:	1: Lecture, 2: Question-Answer, 3: Discussion, 4: Simulation, 5: Case Study
Assessment Methods:	A: Testing, B:Presentation, C: Homework, D: Project, E: Laboratory

COURSE CONTENT		
Week	Topics	Study Materials
1	Components of critical thinking and ordinary thinking, humanism, bigotry and bias	
2	Critical thinking in scientific research	
3	Argument mapping 1- components of a simple argument,mapping logic	
4	Argument mapping 1-case study 1	
5	Argument mapping 2-multiple premises, co-premises, the golden rule, the rabbit rule, holding hands rule. Logical fallacies.	
6	Argument mapping 2-case study 2	
7	Egocentrism and sociocentrism as results of 'ordinary' thinking	
8	Classifying arguments: case studies, repairing arguments.	

9	Informal fallacies: case studies, tone, balance and bias in texts.
10	Analysing the universal elements of human reasoning, the intellectual standards, excellence of thought: Application of the intellectual standards to the elements of thought
11	Standards for thinking: ethical thinking, Categories of questions, questions that lead to good thinking, socratic questioning.
12	Scientific philosophy
13	Scientific methods
14	Final Exam
15	

RECOMMENDED SOURCES	
Textbook	1-Sekaran, Uma and Bougie, Roger. (2012). Research Methods for Business: A Skill Building Approach. 5. Edition.
Additional Resources	Zikmund, W.G. (2003). Business research methods . 7. Basim. Thomson (South Western) Publications.

MATERIAL SHARING	
Documents	Lecture Notes
Assignments	Discussions
Exams	Mid-term and final exam

ASSESSMENT		
IN-TERM STUDIES	NUMBER	PERCENTAGE
Mid-Term	1	20
Quizzes	1	40
Final Exam	1	40
Total		100
CONTRIBUTION OF FINAL EXAMINATION TO OVERALL GRADE		40
CONTRIBUTION OF IN-TERM STUDIES TO OVERALL GRADE		60
Total		100

COURSE CATEGORY

Expertise/Field Courses

COURSE'S CONTRIBUTION TO PROGRAM						
No	Program Learning Outcomes	Contribution				
		1	2	3	4	5
1	Students have the knowledge and the skills to design and develop the complete systems for multi-media visual user interface.	X				
2	Students have advanced the knowledge and skills to design, develop and install the application systems for multimedia.					
3	Students have the knowledge and the skills to design, develop and apply algorithms and data structures to solve the basic problems of information processing, within the framework of discrete mathematics.					X
4	Students have the knowledge and the skills to design and develop computer applications, based on user specified requirements, using modern structured development tools and install them on various hardware platforms and deploy their usage.					X
5	Students have the knowledge and the skills to design and develop computer applications, based on user specified requirements, using modern object-oriented development tools and install them on various hardware platforms and deploy their usage.					X
6	Students know the logic of computer operating systems, the basic set of system commands, how to control access to system resources by users of different departments and how to monitor the running of jobs in the system.					X
7	Students have the knowledge and the skills to design and develop data models serving different requirements, database applications that would access and process data using various types of software, including queries, reports and business applications.					X

8	Students have the knowledge and the skills to design and develop business applications that would provide data access, modification and processing for data kept in enterprise database systems.	X
9	Students have the knowledge about computer networks, and have the skills to design, develop and monitor computer networks, how to configure them and how to maintain their performance.	
10	Students have the knowledge and the skills to design and develop visual user interfaces for the web, web-based applications for n-tier client/server configurations, how to deploy them in enterprises.	

ECTS ALLOCATED BASED ON STUDENT WORKLOAD BY THE COURSE DESCRIPTION			
Activities	Quantity	Duration (Hour)	Total Workload (Hour)
Course Duration (Including the exam week: 15x Total course hours/week)	14	3	42
Hours for off-the-classroom study (Pre-study, practice, review/week)	14	5	70
Homework	10	10	100
Midterm	1	15	15
Final	1	15	15
Total Work Load			241
Total Work Load / 25 (h)			9.6
ECTS Credit of the Course			10