

### COURSE PROFILE

Course Name	Code	Semester	Term	Theory+PS+Lab (hour/week)	Local Credits	ECTS
Online Socila Networks	MIS552	Spring		3 + 0 + 0	3	8

<b>Prerequisites</b>	None
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<b>Course Language</b>	English
<b>Course Type</b>	Departmental Elective
<b>Course Lecturer</b>	Assist. Prof. Dr. Gülay Ünel
<b>Course Assistant</b>	Büşra Özdenizci
<b>Course Objectives</b>	This course aims to provide the basics of online social networks and present selected topics from Social Networks research area.
<b>Course Learning Outcomes</b>	Upon successful completion of the course, students will be able to: <ul style="list-style-type: none"><li>• understand the basic concepts of Social Networks,</li><li>• have an overview of the trends in Social Networks research,</li><li>• survey or design and implement methods on a research topic related to Social Networks.</li></ul>
<b>Course Content</b>	Social network data, Formal Methods. Using graphs to represent social relations, graph visualization, representing social relations. Working with network data. Connection, embedding, ego networks, centrality and power, cliques and sub-groups.

## COURSE CONTENT

<b>Week</b>	<b>Subjects</b>	<b>Related</b>
<b>1</b>	Social Network Data	
<b>2</b>	Formal Methods	
<b>3</b>	Using Graphs to Represent Social Relations	
<b>4</b>	Graph Visualization	
<b>5</b>	Representing Social Relations	
<b>6</b>	Working with Network Data	
<b>7</b>	Connection, Embedding	
<b>8</b>	Connection, Embedding	
<b>9</b>	Paper Presentations	
<b>10</b>	Paper Presentations	
<b>11</b>	Ego networks, Centrality and Power, Cliques and Sub-groups	
<b>12</b>	Ego networks, Centrality and Power, Cliques and Sub-groups	
<b>13</b>	Student Seminars	
<b>14</b>	Student Seminars	

<b>Course Textbook</b>	R. A. Hanneman and M. Riddle, Introduction to social network methods.
<b>Recommended References</b>	

<b>Semester Requirements</b>	<b>Number</b>	<b>Percentage of Grade</b>
Attendance/Participation		
Laboratory		
Application		
Special Course Internship (Work Placement)		
Quizzes/Studio Critics		
Homework Assignments		
Presentation	1	10
Project	1	30
Seminar/Workshop		
Midterms/Oral Exams	1	30
Final/Resit Exam	1	30
<b>Total</b>	<b>3</b>	<b>100</b>

<b>PERCENTAGE OF SEMESTER WORK</b>	3	70
<b>PERCENTAGE OF FINAL WORK</b>	1	30
<b>Total</b>	<b>4</b>	<b>100</b>

<b>Course Category</b>	Core Courses	
	Major Area Courses	X
	Supportive Courses	
	Media and Management Skills Courses	
	Transferable Skill Courses	

### COURSE'S CONTRIBUTION TO PROGRAM

#	Program Qualifications / Outcomes	* Level of Contribution				
		1	2	3	4	5
1	An ability to use the theoretical and applied foundations in mathematics and basic sciences acquired in the undergraduate level to the solutions of problems in information technology area				X	
2	An ability to analyze a graduate level 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 graduate level information technology problems			X		
4	An ability to analyze and communicate 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, prepare documentation for this purpose; and acquire academic writing skills in a foreign language				X	
6	An ability to understand and teach professional, ethical, legal, and social issues and responsibilities of information technology profession and research		X			
7	An ability to gain knowledge and conduct research on topics inside and outside the requirements of the information technology profession, and the ability to lead and work within heterogeneous teams of people from different research areas to accomplish interdisciplinary research		X			
8	An ability to engage in life-long learning and professional development for personal improvement to follow contemporary information technology research				X	

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

**ECTS ALLOCATED BASED ON STUDENT WORKLOAD BY THE COURSE DESCRIPTION**

<b>Activities</b>	<b>Number</b>	<b>Duration (Hours)</b>	<b>Total Workload</b>
Course Hours (Including Exams)	14	3	42
Tutorials			
Laboratory			
Application			
Special Course Internship (Work Placement)			
Field Work			
Study Hours Out of Class	14	4	56
Presentations / Seminar	2	1	2
Project	1	54	54
Preparatory reading	14	3	42
Homework Assignments			
Quizzes			
Midterm Exams	1	2	2
Final / Resit Exam	1	2	2
		<b>Total Workload</b>	200

**COURSE CATEGORY**

<b>ISCED GENERAL AREA CODES</b>	<b>GENERAL AREAS</b>	<b>ISCED BASIC AREA CODES</b>	<b>BASIC EDUCATIONAL AREAS</b>	
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	
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	
4	Science	48	Computer	60
5	Engineering, Manufacturing and Civil	52	Engineering	40
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	
8	Service	84	Transport Services	
8	Service	85	Environment Protection	
8	Service	86	Security Services	