SOCIAL NETWORK ANALYSIS

1	Course Title:	SOCIAL NETWORK ANALYSIS	
2	Course Code:	EKO5107	
3	Type of Course:	Optional	
4	Level of Course:	Second Cycle	
5	Year of Study:	1	
6	Semester:	1	
7	ECTS Credits Allocated:	4.00	
8	Theoretical (hour/week):	2.00	
9	Practice (hour/week):	0.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:	None	
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Doç. Dr. SELİM TÜZÜNTÜRK	
15	Course Lecturers:	Doç. Dr. Selim TÜZÜNTÜRK	
16	Contact information of the Course Coordinator:	Doç. Dr. Selim TÜZÜNTÜRK E-Posta: selimtuzunturk@uludag.edu.tr Telefon: 224 2941152 Adres: Bursa Uludağ Üniversitesi İktisadi ve İdari Bilimler Fakültesi,Ekonometri Bölümü,Görükle,Bursa	
17	Website:		
18	Objective of the Course:	The objective of this course is to teach the theory and real world applications related to social network analysis.	
19	Contribution of the Course to Professional Development:	The course gives students the ability to examine and analyze the social structure (social networks) we live in from a different methodological perspective.	
20	Learning Outcomes:		
		1	To be able to comprehend basic concepts of Network science
		2	To be able to comprehend theoretical framework of network science
		3	To be able to use theoretical models of network science
		4	To be able to make various numerical calculations by learning structural properties of networks
		5	To be able to draw networks and to interpret their visual images
		6	To be able to comprehend social networks and social network science
		7	To be able to prepare social network analysis survey. To be able to collect social network data.
		8	To be able to perform social network analysis

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	10	

21	Course Content:

Course Content:

Week	Theoretical	Practice
1	Definition of a network, adjacency matrix and visual representations of networks	
2	Network science, it's significance and aim	
3	The history of network science	
4	Structural properties of networks (geodesic distance, degree and degree distribution, clustering coefficient)	
5	Introduction to theoretical models of network science	
6	Random networks	
7	Small world networks	
8	Scale free and scale free networks	
9	Social networks, social network science, social network analysis	
10	History of social network analysis	
11	Applications of social network analysis in social sciences	
12	Network variable, data collection methods	
13	Calculation of statistics and metrics	
14	Calculation of statistics and metrics	

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	15	4.00	60.00
Homeworks	3	4.00	12.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	0	0.00	0.00
Others	0	0.00	0.00
Final Exams	1	20.00	20.00
Total Work Load			120.00
Total work load/ 30 hr			4.00
ECTS Credit of the Course			4.00

	Materials:

1.Necmi GÜRSAKAL, Sosyal Ağ Analizi Pajek Uçinet ve Gmine Uygulamalı, Dora Yayıncılık, 2009, Bursa.

2. Ağ Bilimi ve İstatistik , 9. Ulusal Ekonometri ve İstatistik Sempozyumu, Dokuz Eylül Üniversitesi, İzmir.

3.WASSERMAN Stanley – Katherine FAUST, Social Network Analysis: Methods and Applications, Cambridge

4.SCOTT John, Social Network Analysis: A Handbook, Sage Publications Ltd., London, 2004.

Methods and Models, Springer, New York, 2009.

6.KNOKE David – Song YANG, Social Network Analysis,

7.DE NOOY Wouter – Andrej MRVAR – Vladimir BATAGELJ, Exploratory Social Network Analysis with Pajek, Cambridge University Press, New York, 2007.

8.CROSS Rob – Andrew PARKER, The Hidden Power of Social Networks: Understanding How Really Gets Done in Organizations, Harvard Business School Press, Boston, 2004.

9.BARABÁSI Albert László, Linked: How Everything Is Connected to Everything Else and What It Means for Business, Science, and Everyday Life, Penguin Group, New York, 2003.

23	Assesment

TERM LEARNING ACTIVITIES	**NUMBER**	**WEIGHT**
Midterm Exam	0	0.00

Quiz	0	0.00
Home work-project	0	0.00
Final Exam	1	100.00
Total	1	100.00
Contribution of Term (Year) Learning Activities to Success Grade		0.00
Contribution of Final Exam to Success Grade		100.00
Total		100.00
Measurement and Evaluation Techniques Used in the Course		In addition to the assigned assignments, the success of the student is evaluated with the classic final exam.

24 ECTS / WORK LOAD TABLE

25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS

	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	1	4	2	1	1	3	1	1	1	1	1	1	0	0	0	0
ÖK2	4	4	4	2	3	3	3	3	4	4	4	4	0	0	0	0
ÖK3	4	4	4	2	3	3	3	3	4	4	4	4	0	0	0	0
ÖK4	1	4	2	1	1	3	1	1	1	1	1	1	0	0	0	0
ÖK5	1	4	2	1	1	3	1	1	1	1	1	1	0	0	0	0
ÖK6	4	4	4	4	3	3	3	3	4	4	4	4	0	0	0	0
ÖK7	4	4	4	3	4	4	3	3	4	4	4	4	0	0	0	0
ÖK8	4	4	4	2	3	4	3	3	4	4	4	4	0	0	0	0

LO: Learning Objectives PQ: Program Qualifications

Contribution Level:	**1 very low**	**2 low**	**3 Medium**	**4 High**	**5 Very High**