

REGRESSION ANALYSIS I

1	Course Title:	REGRESSION ANALYSIS I	
2	Course Code:	TBY 5001	
3	Type of Course:	Compulsory	
4	Level of Course:	Second Cycle	
5	Year of Study:	1	
6	Semester:	1	
7	ECTS Credits Allocated:	2.00	
8	Theoretical (hour/week):	3.00	
9	Practice (hour/week):	0.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:		
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Prof. Dr. İLKER ERCAN	
15	Course Lecturers:	Prof. Dr. İlker ERCAN Doç.Dr. Deniz SİĞİRLİ Doç.Dr. Gökhan OCAKOĞLU Doç. Dr. Güven ÖZKAYA	
16	Contact information of the Course Coordinator:	Prof. Dr. İlker ERCAN Doç.Dr. Deniz SİĞİRLİ Doç.Dr. Gökhan OCAKOĞLU Doç. Dr. Güven ÖZKAYA	
17	Website:		
18	Objective of the Course:	Introducing regression analysis and regression modelling.	
19	Contribution of the Course to Professional Development:		
20	Learning Outcomes:		
		1	Determining and modelling the relationship between dependent and independent variables in a scientific research.
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21	Course Content:		
		Course Content:	
Week	Theoretical	Practice	
1	Correlation Theory		
2	Simple Linear Regression Model-Ordinary Least Square Method		

3	Testing Statistical Significance of Estimations	
4	Testing Statistical Significance of Estimations	
5	Properties of Least Square Estimations	
6	Multiple Regression ve Linear Regression Model's Other Extensions	
7	Regression and Variance Analysis	
8	Regression and Variance Analysis	
9	Randomness, Null Mean, Homoscedastic, and Normality Assumptions of u	
10	Autocorrelation	
11	Multicollinearity	
12	Maximum Likelihood Estimation	
13	Three Stages Least Squares	
14	Testing Predictive Power of Model	

22	Textbooks, References and/or Other Materials:	1)Koutsoyiannis A. Ekonometri Kuramı, Verso Yayıncılık, Ankara, 1989 2)Kunter MH. Applied Linear Statistical Models, 5th edition, Boston: McGraw Hill, 2005.
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23	Assesment
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TERM LEARNING ACTIVITIES	NUMBER	WEIGHT
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Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	1	3.00	42.00
Final Exam	1	3.00	42.00
Practicals/Labs	0	0.00	0.00
Self-study and preparation	0	0.00	0.00
Contribution of Term (Year) Learning Activities to	0	0.00	0.00
Homeworks	0	0.00	0.00
Contribution of Final Exam to Success Grade	1	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	0	0.00	0.00
Measurement and Evaluation Techniques Used in the	0	0.00	0.00
Others	0	0.00	0.00

24 ECTS / WORK LOAD TABLE			
Final Exams	1	20.00	20.00
Total Work Load			62.00
Total work load/ 30 hr			2.07
ECTS Credit of the Course			2.00

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
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	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	0	4	4	0	4	3	0	0	0	0	0	0	0	0	0	0

LO: Learning Objectives PQ: Program Qualifications																
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Contrib ution Level:	1 very low	2 low	3 Medium	4 High	5 Very High
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