Course Title-Course Code: CE 616 STATISTICAL ANALYSIS IN TRANSPORTATION ENGINEERING	Name of the Programme:CIVIL ENGINEERING

Semester	Teaching Methods							Credits	
	Lecture	Recite	Lab.	Field Study	H W	Other	Total	Credit	ECTS Credit
1-2	42	0	0	0	56	90	188	3	7.5

Language	Turkish
Compulsory / Elective	Elective
Prerequisites	-
Course Contents	Basic statistics, ANOVA/MANOVA, Statistical distributions; binamial, poison, normal, F, t, chi-square and exponential distributions, hypothesis testeing, multivariate analysis; cluster analysis, discriminat analysis, factor analysis, regression analysis, and principal components.
Course Objectives	Besides Review of basic statistical analysis, teaching multivariate analysis
Learning Outcomes and Competences	Working with complex data, analysis and evaluations.
Textbook and /or References	Statistical Methods in Traffic Engineering StatSoft, Inc. (2002). Electronic Statistics Textbook. Tulsa, OK: StatSoft. WEB: http://www.statsoft.com/textbook/stathome.html. MINITAB Statistical Software, Meet Minitab, Minitab Inc. Kleinbaum, D.G., 1994, Logistic Regression: A Self-Learning Text, Springer-Verlag NewYork, Inc. USA. Hosmer, D.W. and Lemeshow, S., 2000, Applied Logistic Regression (2nd Edition), John Wiley & Sons, Inc. Canada.

Assessment Criteria		*If any,mark as (X)*	**Percent (%)**
	Midterm Exams	X	30
	Quizzes		
	Homeworks	X	20
	Projects		
	Term Paper	X	10
	Laboratory Work		
	Other		
	Final Exam	X	40

Instructors	Asst.Prof.Dr. Hikmet BAYIRTEPE