COURSE DESCRIPTION FORM	
Course Code and Name	**IST262 Biostatistics**
Course Semester	4
Catalogue Data of the Course (*Course Content*)	The importance of biostatistics and its relationship with dentistry, basic concepts of biostatistics, the importance of biostatistics in scientific research and biostatistics use of
Course Textbooks	Kesici T., Kocabaş Z. (2007). Biyoistatistik. Ankara Üniversitesi Eczacılık Fakültesi Biyoistatistik Yayın no: 94.
Supplementary Textbooks	Zar, J.H. (1998). Biostatistical Analysis. PrenticeHall, London. 4th ed.,Chernick, M.L. andFriis, R.H. (2003). Introductory Biostatistics. Özdamar, K. (2005). SPSS ile Biyoistatistik. Kaan Kitabevi, Eskişehir. Sümbüloğlu, K ve Sümbüloğlu, V. (1987). Biyoistatistik. Çağ Matbaası.
Credit (*ECTS*)	2
Prerequisites for the Course (*Attendance Requirements*)	There is no prerequisite or co-requisite for this course. The student's attendance requirement is according to Gazi University Faculty of Dentistry Education-Training and Examination Directive.
Course Type	Professional/Technical.
Language of Instruction	Turkish
Course Objectives	Biostatistics term and use analysis, interpretation knowledge and skills to have attitude provide.
Course Learning Outcomes	To know the basic concepts of biostatistics, Biostatistics and computer comprehension, Recognition of data collection methods, accurate and consistent data in dental research able to collect, C04 To be able to present the obtained results with tables and graphs, Descriptive have information about statistics, to be able to establish appropriate hypothesis, to be able to choose the appropriate hypothesis test and analyze, to know and use statistical software.
Instruction Method (*Face-to-face, Distance education etc.*)	
Weekly Schedule of the Course	Week 1: The concept of biostatistics and basic concepts about biostatistics Week 2: Use of biostatistics in dentistry Week 3: Variable types Week 4: Centeral and spread measurements Week 5: Presenting data with table and chart methods Week 6: Distribution types (normal, binomial and poisson distributions) Week 7: Sampling distributions, sampling concept and types Week 8: Midterm Week 9: Hypothesis testing Week 10: Hipotez testing (Student?s T, Mann-Whitney U, Wilcoxon test) Week 11: Hipotez testing (One-way ANOVA, Kruskal-Wallis test) Week 12: Hipotez testing (RepeatedOne-way ANOVA, Fridman test) Week 13: Hipotez testing (Chi-Square, McNemar) Week 14: Correlation and Regression
Teaching Activities (*The time spent for the activities listed here will determine the amount of credit required*)	Weekly theoretical course hours : 14 week / 2 hour Reading activities : 5 week / 1 hour Internet search and library work : 5 week / 1 hour Designing and implementing materials : 5 week / 1 hour Midterm and revision for midterm : 1 week / 3 hour Final exam and revision for final exam : 1 week / 4 hour

		Number(s)	Weight (%)
Assessment Criteria	Midterm exam	1	40
	Assignment		
	Application		

	Project			
	Practice			
	Quiz			
	Final exam	1	60	
	Total	2	100	

	Activity	Number of Weeks	Duration (Weekly Hour)	End of Semester Total Workload
Workload of the Course	Weekly theoretical course hours	14	2	28
	Weekly practical course hours			
	Reading activities	5	1	5
	Internet search and library work	5	1	5
	Designing and implementing materials	5	1	5
	Making a report			
	Preparing and making presentations			
	Midterm and revision for midterm	1	3	3
	Final exam and revision for final exam	1	4	4
	Total workload			50
	Total workload/ 25			2,0
	Course Credit (ECTS)			2

	No	Program Outcomes	1	2	3	4	5
Contribution Level between Course Outcomes and Program Outcomes	1	He/She knows the normal structure and functions of the human body and specifically the structures and teeth in the oral region on the basis of cells, tissues, organs and systems, and their interactions with each other.					
	2	He/She defines the causes and formation mechanisms of oral, dental and maxillofacial diseases, the symptoms, structure and function disorders and how they affect the organism.					
	3	He/She knows, comprehends, associates and evaluates the symptoms and signs, diseases and conditions and professional practices at the level determined in the national core education programme of dentistry and Gazi University Faculty of Dentistry Extended Education Programme.			X		
	4	He/She knows how to access the best current scientific evidence, evaluate its reliability and validity in line with personal learning needs.					X
	5	He/She knows the legislation on professional legal responsibilities, deontology and ethical principles.					X
	6	He/She knows and performs professional practices at the level determined in the national core education programme of dentistry and Gazi University Faculty of Dentistry Extended Education Programme.			X		
	7	He/She carries out diagnosis, treatment and follow-up processes by prioritising evidence-based practice, critical thinking and ethical principles.				X	
	8	He/She is aware of his/her limitations, sets personal learning goals to support his/her					

		professional development, refers the patient to the appropriate centre when necessary.					
	9	He/She knows the incidence of diseases of the mouth, teeth and jaws in the community and contributes to prevention and reduction.					X
	10	He/She behaves in accordance with the laws, regulations, legislation and ethical principles related to his/her duties and responsibilities while practising his/her profession independently.				X	
	11	He/She has teamwork and leadership skills, is a role model to colleagues and society it happens.					X	
	12	He/She plans his/her personal professional development and realises it with the principle of lifelong learning.					X
	13	He/She establishes effective written and oral communication with patients, relatives, other health personnel, society, related sectors and media.					
	14	He/She will be able to use foreign language and information communication technologies follows innovations in the profession.	X				
Lecturer(s) and Contact Information	G.U. Faculty of Science Faculty Members of the Department of Statistics						