

<b>COURSE DESCRIPTION FORM</b>			
<b>Course Code and Name</b>	<b>IST561 Biostatistics For Dentistry</b>		
<b>Course Semester</b>	9		
<b>Catalogue Data of the Course (Course Content)</b>	Importance of biostatistics in scientific research and use of biostatistics methods, research designs used in health sciences, health level criteria, hypothesis tests.		
<b>Course Textbooks</b>	Zar, J.H. (1998). Biostatistical Analysis. PrenticeHall, London. 4th ed.,Chernick, M.L. andFriis, R.H. (2003). Introductory Biostatistics.		
<b>Supplementary Textbooks</b>	Kesici T., Kocabaş Z. (2007). Biyoistatistik. Ankara Üniversitesi Eczacılık Fakültesi Biyoistatistik Yayın no: 94. Chernick, M.L. andFriis, R.H. (2003). IntroductoryBiostatistics for the HealthSciences. Wiley-Interscience. Özdamar, K. (2005). SPSS ile Biyoistatistik. Kaan Kitabevi, Eskişehir. Sümbüloğlu, K ve Sümbüloğlu, V. (1987). Biyoistatistik. Çağ Matbaası.		
<b>Credit (ECTS)</b>	1		
<b>Prerequisites for the Course (Attendance Requirements)</b>	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.		
<b>Course Type</b>	Professional/Technical.		
<b>Language of Instruction</b>	Turkish		
<b>Course Objectives</b>	Biostatistics term and use analysis, interpretation knowledge and skills to have attitude provide.		
<b>Course Learning Outcomes</b>	To understand the importance of biostatistics in scientific research, Used in health sciences recognition of research designs, Recognition of sampling methods, Accurate and consistent data collection in dental research, To know the criteria related to health level, To be able to establish appropriate hypothesis, To be able to select the appropriate hypothesis test and make analysis, Knowing the measurements and measurements of inter-rater compatibility.		
<b>Instruction Method (Face-to-face, Distance education etc.)</b>	Face to Face		
<b>Weekly Schedule of the Course</b>	Week 1: Types of research used in health sciences Week 2: Sampling methods and determination of sample diameter Week 3: Health criteria Week 4: Risk criteria Week 5: Risk criteria Week 6: Hypothesis testing, selection og appropriate hypothesis testing Week 7: Hipotez testing (Student's T, Mann-Whitney U, Wilcoxon test) Week 8: Midterm Week 9: Hipotez testing (One-way ANOVA, Kruskal-Wallis test) Week 10: Hipotez testing (Repeated one-way ANOVA, Fridman test) Week 11: Hipotez testing (Chi-Square, McNemar) Week 12: Correlation and Regression Week 13: Correlation and Regression Week 14: Scientific article literacy		
<b>Teaching Activities (The time spent for the activities listed here will determine the amount of credit required)</b>	Weekly practical course hours : 14 week / 2 hour Reading activities : 2 week / 1 hour Midterm and revision for midterm : 1 week / 1 hour Final exam and revision for final exam : 1 week / 1 hour		
<b>Assessment Criteria</b>		<b>Number(s)</b>	<b>Weight (%)</b>
	Midterm exam	1	40

	Assignment						
	Application						
	Project						
	Practice						
	Quiz						
	Final exam	1		60			
	Total	2		100			
<b>Workload of the Course</b>	<b>Activity</b>	<b>Number of Weeks</b>	<b>Duration (Weekly Hour)</b>	<b>End of Semester Total Workload</b>			
	Weekly theoretical course hours						
	Weekly practical course hours	14	2	28			
	Reading activities	2	1	5			
	Internet search and library work						
	Designing and implementing materials						
	Making a report						
	Preparing and making presentations						
	Midterm and revision for midterm	1	1	1			
	Final exam and revision for final exam	1	1	1			
	Total workload			32			
	Total workload/ 25			1.28			
	Course Credit (ECTS)			1			
<b>Contribution Level between Course Outcomes and Program Outcomes</b>	No	Program Outcomes	1	2	3	4	5
	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.			X		
	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				
	<b>Lecturer(s) and Contact Information</b>	G.U. Faculty of Science Faculty Members of the Department of Statistics					