

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Biostatistics						
Course Code	BIS590	Couse Leve	əl	Second Cycle (Master's Degree)			
ECTS Credit 4	Workload 100 (Hours)	Theory	2	Practice	2	Laboratory	0
Objectives of the Course	bjectives of the Course To teach basic statistical concepts and methods to students with specific examples and application the field of health, to make them understand and evaluate the literature in their field statistically.					itions in	
Course Content	 Basic statistical concepts, Collection of data, Descriptive statistics, Tables and graphics, Possibility, Introduction to analytical a Student's t tests Mann-Whitney U & Wilcox Chi square independence One way ANOVA, Kruskal Wallis Test 	nalysis, on T test analysis,					
Work Placement	N/A						
Planned Learning Activities and Teaching Methods		Explanation	n (Present	ation), Demons	tration, Prob	lem Solving	
Name of Lecturer(s)	Prof. İmran KURT ÖMÜRLÜ	j					

Assessment Methods and Criteria						
Method		Quantity	Percentage (%)			
Midterm Examination		1	40			
Final Examination		1	60			

Recommended or Required Reading

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1	Özdamar, K. (2013). SPSS ile Biyoistatistik. Nisan Kitabevi, Eskişehir.	
2	Alpar R. (2014). Spor, Sağlık ve Eğitim Bilimlerinden Örneklerle UYGULAMALI İSTATİSTİK ve GEÇERLİK-GÜVENİRLİK. Detay Yayıncılık, Ankara.	
3	Daniel Wayne W. and Chad L. Cross. (2013). Biostatistics: A Foundation for Analysis in the Health Sciences. 10th Edition, New York: John Wiley&Sons.	
4	Rosner, B. (2015). Fundamentals of biostatistics. Nelson Education.	

Week	Weekly Detailed Cours	se Contents				
1	Theoretical	Basic statistical concepts; statistics, biostatistics, usage areas of biostatistics, population, sample, statistics, parameters, data, variables, types of scale, etc.				
	Practice	Introduction to statistical package programs				
2	Theoretical	Classification of data, frequency table creation, etc.				
	Practice	Classification of data, frequency table creation, etc.				
3	Theoretical	Data collection methods, surveys, etc.				
	Practice	Data entry application				
4	Theoretical	Central tendency and distribution measures; mean, mod, median, standard deviation, variance, standard error, etc.				
	Practice	Calculation of central tendency and distribution measures.				
5	Theoretical	Tables and graphics; table types, chart types, etc.				
	Practice	Creating tables, drawing graphics, etc.				
6	Theoretical	Probability calculations.				
	Practice	Probability calculations.				
7	Theoretical	Introduction to analytical analysis, hypotheses, type 1 and type 2 errors, etc.				
	Practice	Probability calculation from frequency and cross tables				
8	Intermediate Exam	Midterm				
9	Theoretical	Student's t tests; one sample t test, independent samples t test, paired samples t test.				
	Practice	One sample t test, independent samples t test, paired samples t test.				
10	Theoretical	Student's t tests; one sample t test, independent samples t test, paired samples t test.				



10	Practice	Student's t tests; one sample t test, independent samples t test, paired samples t test.				
11 Theoretical Mann-Whitney U test, Wilcoxon T test.						
	Practice	Mann-Whitney U test, Wilcoxon T test.				
12	Theoretical	Chi-square independence analysis; Pearson chi-square, Yates chi-square, Fisher's exact chi-square tests.				
	Practice	Pearson chi-square, Yates chi-square, Fisher's exact chi-square tests.				
13	Theoretical	One Way ANOVA				
	Practice	One Way ANOVA				
14	Theoretical	Kruskal Wallis test				
	Practice	Kruskal Wallis test				
15	Theoretical	Literature review and discussion				
	Practice	Literature review and discussion				
16	Final Exam	Final exam				

Workload Calculation

Activity	Quantif		Р	Preparation		Duration	Total Workload
Lecture - Theory		14		1		2	42
Lecture - Practice		14		1		2	42
Midterm Examination		1		5		1	6
Final Examination		1		8		2	10
					To	tal Workload (Hours)	100
	[Total Workload (Hours) / 25*] = ECTS 4					4	
*25 hour workload is accepted as 1 ECTS							

Learning Outcomes

1	Decides the appropriate basic statistical analysis,
2	Makes calculations and analyzes on its own,
3	Interpret the results,
4	Comprehends the statistical analysis in the literature in his field,
5	Have sufficient theoretical and practical basis for more advanced statistics courses.

Programme Outcomes (Surgical Nursing Master)

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1	To be able to reach at the scientific information on nursing, follow the up-to-date literature, evaluate and practice it.				
2	To be able to Convert the theoretical and practical speciality level information acquired in the field of nursing of surgical diseases into behaviour				
3	To be able to Solve problems requiring specialization by using scientific research methods				
4	To be able to Criticize the advanced information and skills obtained in the field of nursing of surgical diseases				
5	To be able to Relay the current affairs and her own studies in the field of surgical nursing systematically in writing, verbally and visually to the groups of her own field and others groups				
6	To be able to Communicate verbally and in writing in at least one language at Level B2 of European Language Portfolio Global Scale ("European Language Portfolio Global Scale", Level B2)				
7	To be able to Implement the information digested in the field of surgical nursing and problem solving abilities among the inter disciplinary studies				
8	To be able to Behave according to the social, scientific and vocational ethical values				

Contribution of Learning Outcomes to Programme Outcomes 1: Very Low, 2: Low, 3: Medium, 4: High, 5: Very High

	L1	L2	L3	L4	L5
P3	4	4	4	4	4
P4	4	4	4	4	4
P7	4	4	4	4	4
P8	5	5	5	5	5

