



AYDIN ADNAN MENDERES UNIVERSITY
GRADUATE SCHOOL OF HEALTH SCIENCES
PHYSICAL EDUCATION AND SPORTS
PHYSICAL EDUCATION AND SPORTS
PHYSICAL EDUCATION AND SPORTS MASTER
COURSE INFORMATION FORM

Course Title	Statistics in Sport Sciences								
Course Code	BSÖ500	Course Level		Second Cycle (Master's Degree)					
ECTS Credit	7	Workload	170 (Hours)	Theory	2	Practice	1	Laboratory	0
Objectives of the Course	To obtain the theoretical knowledge and application skills of statistical methods used in Sport Sciences and their use in the field								
Course Content	In addition to the basic statistical methods and validity-reliability, it includes topics such as multi-factor trials, multiple linear regression.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Demonstration, Individual Study								
Name of Lecturer(s)	Prof. Ayfer GEMALMAZ								

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recommended or Required Reading

1	Applied Statistics and Validity Reliability with Sports Health and Education Sciences Applied Statistics and Validity Reliability with Sport Health and Education Sciences (Reha Alpar), Detay Publication, Ankara.
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Week	Weekly Detailed Course Contents	
1	Theoretical	Definitions and Measurement Format of Data
2	Theoretical	Defining Distributions, Frequency Distributions and Some Univariate Graphs
3	Theoretical	Multivariate Tables and Graphs
4	Theoretical	Standardization (z and T Scores)
5	Theoretical	Theoretical Distributions
6	Theoretical	Sample distributions, standard error concept and confidence intervals
7	Theoretical	Hypothesis Testing
8	Theoretical	Midterm exam
9	Theoretical	Multi-Effective Trials
10	Theoretical	Correlation Coefficients
11	Theoretical	Simple and Multiple Linear Regression Analysis
12	Theoretical	Validity and Reliability
13	Theoretical	Factor Analysis
14	Theoretical	Final exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	4	5	126
Individual Work	4	5	5	40
Midterm Examination	1	1	1	2



Final Examination	1	1	1	2
Total Workload (Hours)				170
[Total Workload (Hours) / 25*] = ECTS				7
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	Understands statistical applications in sports sciences.
2	Make statistical calculations with computer software.
3	Analyze data using statistical methods.
4	Create tables and graphics.
5	Will be able to interpret and present statistical results.

Programme Outcomes (Physical Education and Sports Master)

1	Uses application and problem solving skills in interdisciplinary studies.
2	Develops basic scientific knowledge and attitude appropriate to body and sport.
3	Interpret the results of test development and measurement for the development of individuals in physical education and sport.
4	Explains the scientific methods in physical education and sports.
5	o follow national and international developments in the field and maintain professional development.
6	Beden eğitimi ve spor örgütlerinin örgüt iklimi ve kültürünü tanımlar.

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

	L1	L2	L3	L4	L5
P1	5	5	4	5	5
P2	4	5	5	5	5
P3	5	5	5	5	5
P4	4	5	5	5	4
P5	5	5	5	5	4
P6	5	5	4	4	5

