



COURSE INFORMATION FORM

Course Information						
Year of Curriculum	Course Title	Code	Semester	L+P Hour	Credits	ECTS
	Advanced Statistical Methods	5055010	I-II	3+0	3	7

Language of Instruction	Turkish
Course Level	Postgraduate
Department/Program	Department of Physiotherapy and Rehabilitation / Master's Degree with Thesis
Education Type	Formal
Course Type	Elective
Prerequisites	-
Department/Program Coordinator	Asst. Prof. Çağtay MADEN
Instructors	Asst. Prof. Çağtay MADEN
Assistants	-
Objectives of the Course	The aim of the course is to introduce advanced statistical methods, to make statistical applications in the appropriate package program and to enable students to make their own analysis.
Course Content	This course includes theoretical and practical studies that will enable the acquisition of high-level statistical skills.
Teaching-Learning Methods and Techniques Used in the Course	Expression Discussion Question & Answer Preparing and / or Presenting a Report Drill & Practice Case Study Problem / Problem Solving Brainstorming
Internship of the Course (If there is)	-

Learning Outcomes
1. Knows advanced statistical methods.
2. Selects the appropriate statistical method for the dependent and independent group.
3. Select the appropriate statistical method for parametric and nonparametric data.
4. Selects the appropriate analysis method for the research.
5. Analyzes the research with the appropriate statistical program.

COURSE CONTENT	
Week	Topics
1	Introduction to the course
2	Advanced Statistical Methods
3	Parametric and Nonparametric Tests and Application
4	Independent Groups T Test and Application
5	Mann-Whitney U and Wilcoxon Test and Application
6	Chi-square and Fisher Test and Application
7	Variance Analysis Methods
8	Midterm Exam
9	ANOVA and ANCOVA Analysis and Application
10	MANOVA and MANCOVA Analysis and Application
11	Kruskal-Wallis and Friedman Test and Application
12	Pearson and Spearman Test and Application
13	Regression Analysis
14	Statistics Programs and Application
15	Final Exam

RECOMMENDED SOURCES		
Lecture Notes		
ASSESSMENT		
IN-TERM STUDIES	QUANTITY	PERCENTAGE
Mid-terms	1	40
Quizzes		
Homework		
Attendance		
Practice		
Seminar		
Internship of the Course		
Project		
Field Survey		
Workshop		
Laboratory		
Presentation		
Final examination	1	60
Total	2	100
Contribution of Semester Studies to the Success Grade		
Contribution of the Final Exam to the Success Grade		
Total		

ECTS/WORKLOAD TABLE			
Activities	Quantity	Duration (Hour)	Total Workload (Hour)
Course Duration (Including the exam week: 15x Total course hours)	15	3	45

Hours for off-the-classroom study (Pre-study, practice)	15	3	45
Homework	15	3	45
Seminar			
Presentation	14	3	42
Practice			
Laboratory			
Internship of the Course			
Project			
Field Survey			
Workshop			
Others (.....)	1	1	1
Mid-terms	1	1	1
Quizzes	2	1	2
Homework(s)/Seminar(s)			
Final examination	1	1	1
Total Work Load			210
Total Work Load / 30 (h)			210/30
ECTS Credit of the Course			7

ASSOCIATING THE LEARNING OUTCOMES OF THE COURSE WITH THE PROGRAM OUTCOMES

Course Learning Outcomes	PO1	PO2	PO3	PO4	PO5	PO6
CLO1	3	5	1	5	1	3
CLO2	3	5	1	5	1	3
CLO3	3	5	1	5	1	3
CLO4	3	5	1	5	1	3
CLO5	3	5	1	5	1	3
CLO: Course Learning Outcomes PO: Programme Outcomes						
Contribution level	1. Very low	2. Low	3. Medium	4. High	5. Very High	