1. Instructor / Instructors Information

Name of the instructor(s)	Office hours	Section	Office location	E-mail
Dr. Taghreed Abdel_Razek	.S, U., R 9-10.30 Wed. 9.30-11	AAR	51C	Taghreed 1177@yahoo.com

2. Course information

Course Name	Course code	Course Number
Non- parametric Methods I	Stat	453

Theoretical course	Theoretical course	Lab work	Lab work
meeting time	meeting places	meeting time	meeting place
8-8.50 S., Tu., Th.	91C(7)	.S 9-10	L04B

Course website address	Course prerequisite and needed skills to
Course website address	course success
	Stat 302 and good skills in using SPSS package.
	No post- requisite for this course.

eaching method	Lecture, Discussion, Practical and Lab Training
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3. Course Objectives

- 1. A statement of what the student will know and be able to do as the result of learning
 - **Understand different statistics used in nonparametric statistics.**
 - **Learn** to estimate and interpret these statistics.
 - Develop analytic skills through the analysis of data sets taken from different fields.
 - Develop oral and written communication skills through the description of analytic strategies and the summarization and interpretation of results.
- 2. A statement on how they will be expected to demonstrate their learning
 - Understand issues in the design, analysis, and interpretation of studies involving nonparametric statistics.
 - **Recognize** when it is necessary to use nonparametric statistics.
 - **❖** Introduce a collection of nonparametric tests which applicable on data from general populations.
 - **Be able to apply the nonparametric tests in their future searches.**

4. <u>Learning Resources</u>

Course	Textbook, and where to obtain it	Conover W.J. (1999),"Practical Nonparametric Statistics "John Wiley& Sons. Al Shigry library- Jeddah
References	List of the references and where to obtain them	1- Peter Sprent and Nigel C. Smeeton, Applied nonparametric statistical methods, Fourth edition, Chapman & Hall 2007 2- 2006 د. جلال م الصياد "الإستدلال الإحصائي" دار المريخ Stat., dep., library faculty of science KAU 3- Using Spss for Windows and Macintosh. Al Shigry library- Jeddah 4- في العلوم النفسية والاحصاء اللابار امتري مع استخدام برنامج في العلوم والتربوية والاجتماعية د زكريا احمد الشربيني 2001 مكتبة الانجلو
	Websites	www.kau.edu.sa/girls/statistics
List of	the software if needed	SPSS Program

Lab work manual/references and skills will be expected from students

- **Develop skills through the use of lab work.**
- **Develop skills through apply data sets taken from different fields.**
- **❖** Be able to apply the nonparametric tests through the package Spss

5. Course Requirements and Grading

- 1. Student assessment
 - 27 /4/1435 Exam 1 20marks
 13/6/1435 Exam 2 20marks
 T.B.A Final Exam 40 marks
 - * T.B.A Lab& H.W& quizzes 20marks
- 2. Expectation from student for each assignment and project.
 - All homework assignments should be submitted on time
 - **❖** All homework assignments should be corrected and reviewed with the lecturer during heir office hours.
 - All lab assignments should be submitted on time and a discussion for most difficult homework problems will be made during the lab work meting time.
- 3. Expectation from student: Attitudes, involvement, behaviors, skills, and ethics
 - **All mobiles should be turned off during the class.**
 - **All students shouldn't be late for the lecture.**
 - **All students shouldn't be late for the lab training.**

4. Important rules of academic conduct

- **Students have to read the appropriate textbook sections before and after each lecture, and attempt the relevant homework problems**
- **Students have to attend at least 75% of scheduled classes.**

Detailed Course Schedule

1. Course Schedule template:

	Course topics	Th	ne notes regard students activ		
Week #	Торіс		Reading Assignment	What is I	Due?
	Review to probability theory and statistical inference.				
1	Cont. review to probability theory statistical inference.	and and			
	Cont. of the revision, ch. 2		Chapter 1,2		
	The binomial test and estimation	of p .			
2	Cont. the binomial test and estimated of p .	ation	Chapter 3		
	The Quantile test and estimation of				
		tion of			
3	Cont. the Quantile test and estimation of x_p . The sign test for paired sample		Chapter 3	Assignment	1
3	The sign test for paired sample			7 KSSIgillient	1
	Cont. the sign test for paired samp	ole			
	REVISION				
4	Quiz (1)				
	Exam (1)				
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	Course topics	Th	ne notes regard students activ			
Week #	Торіс		Reading Assignment	What is I	Due?	
	The 2×2 contingency table					
5	Cont. the 2×2 contingency table		Chapter (4)			
	The chi-squared test for difference probabilities, probabilities, $r \times c$	es in				
	Cont. the rxc contingency table					
6	The chi-squared test for independ	ence	Chapter (4)			
	Cont chi-squared test for indepen	dence				
	The chi-squared goodness of fit t	est				
7	Cont. the chi-squared goodness of test	Chapter (4)	Assignment	2		
	The median test					
	Cont. The median test					
8	Quiz (2)		Chapter (5)			
	Mann-Whitney test.					
	Cont. Mann-Whitney test.					
9	Midterm week		Chapter (5)			
	Review					
	Exam 2					
10	Kruskal-Walls test.		Chapter (5)			
	Cont. Kruskal-Walls test					
	Wilcoxon-signed ranks					
11	Cont. the Wilcoxon-signed ranks	test	Chapter (5)	Assignment 3		
	Friedman test.					

	Course topics	Th	e notes regard students activ		
Week #	Topic		Reading Assignment	What is I	Due?
	Cont. Friedman test.				
12	Cont. The Kolmogorov goodne Of fit	ess	Chapter (6)		
	Quiz (3)				
	The Kolmogorov goodness of	fit test.			
13	Introduction of order statistic				
	Special cases of order statistic		Lecture notes		
14	Final revision				
14	Final exam				

	Course topics	Th	e notes regard students activ	ing the	
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