

كلية الاميرة سلمى بنت عبدالله للتمريض
 قسم تمريض صحة البالغين

توصيف مساق Statistical Analysis of Health Research

1. معلومات مدرس المساق (Instructor)

اسم (مدرس / منسق) المساق :	الدكتور احمد سالم موسى
الساعات المكتيبة ة :	الاثنين: 13-14 مساء الثلاثاء: 13-14 مساء
رقم المكتب والرقم الفرعي :	2861
البريد الالكتروني :	mahasees@aabu.edu.jo
مساعد البحث والتدريس/المشرف/الفني (إن وجد):	لا يوجد

2. وصف المساق ((Course Description))

This course will provide the graduate students with basic and necessary background knowledge on issues related to fundamental understanding of the nature of the data with the approaches to handle it. Student will learn how to run simple to complex data analysis using parametric and non-parametric analysis

3. بيانات المساق (Course Title)

رقم المساق: 1001730	اسم المساق: Statistical Analysis of Health Research	المستوى: ماجستير/سنة اولى
طبيعة المساق: نظري	المتطلب السابق: لا يوجد	وقت المحاضرة: 2-5/ث
العام الجامعي: 2019/2020	الفصل الدراسي: الثاني	عدد الساعات الدراسية: 3

4. أهداف المساق (Course Objectives)

To gain conceptual understanding of statistical analyses to advanced research designs.

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To gain practical experience in the interpretation and communication of statistical data.	ب -
To learn measurement of variables	ج -
To assess the reliability and validity of the obtained measurement.	د -
To apply your learning in a practical manner by (a) entering data, (b) conducting a statistical analysis of the instrument's psychometric properties, and (c) reporting your results in a final paper.	ح -

5. مخرجات التعلم (Intended Student Learning Outcomes)
(المعرفة والمهارات والكفايات)

يفترض بالطالب بعد دراسته لهذا المساق أن يكون قادرا على:

Knowledge

1. To learn measurement of variables

Cognitive Skills

2. To gain conceptual understanding of statistical analyses to advanced research designs.
3. To assess the reliability and validity of the obtained measurement.
4. Interpersonal Skills & Responsibility
5. Illustrate effective and academic relationship with other students and lecturers.
6. Show an appropriate acceptance to lecturer's directions, corrections and evaluation

Psychomotor

7. To gain practical experience in the interpretation and communication of statistical data.
8. To apply your learning in a practical manner by (a) entering data, (b) conducting a statistical analysis of the instrument's psychometric properties, and (c) reporting your results in a final paper.

6. محتوى المساق (Course Content)

الموضوع	الأسبوع
Introduction to course requirements and materials.	الأول (4/2)
Getting to know SPSS	الثاني (11/2)
Data entry and cleaning	الثالث (18/2)
Descriptive statistics	الرابع (25/2)
Descriptive Statistics	الخامس (3/3)
Descriptive Statistics	السادس (10/3)
Exploring relationships: Correlation	السابع (17/3)

Comparing groups: t test	الثامن (24/3)
Comparing groups: ANOVA	التاسع (31/3)
Midterm Exam	
Exploring relationships: multiple regression	العاشر (7/4)
Factor Analysis	الحادي عشر (14/4)
Non parametric tests	الثاني عشر (21/4)
Writing and reporting the statistical findings	الثالث عشر (28/4)
Revision	الرابع عشر (5/5)
الامتحان النهائي: 9/ 5 2020 /Final Exams	

7. استراتيجيات التعليم والتعلم وطرق التقويم (Teaching and learning Strategies and Evaluation) (Methods)

ت	مخرجات التعلم	استراتيجيات التدريس	أنشطة التعلم	نوع التقويم/القياس (امتحان/عروض صفية/مناقشة/واجبات)
1	To gain conceptual understanding of statistical analyses to advanced research designs.	Lectures, Lab demonstration, Group discussion		Exam (Assay questions); SPSS lab Assignments, Critique papers
2	To gain practical experience in the interpretation and communication of statistical data.	Lectures, Lab demonstration, Group discussion		Exam (Assay questions); SPSS lab Assignments, Critique papers
3	To learn measurement of variables	Lectures, Lab demonstration, Group discussion		Exam (Assay questions); SPSS lab Assignments, Critique papers
4	To assess the reliability and validity of the obtained measurement.	Lectures, Lab demonstration, Group discussion		Exam (Assay questions); SPSS lab Assignments, Critique papers
5	To apply your learning in a practical manner by (a) entering data, (b) conducting a statistical analysis of the instrument's psychometric properties, and (c) reporting your results in a final paper.	Lab demonstration		Exam (Assay questions); SPSS lab Assignments, Critique papers
6	Illustrate effective and academic relationship with other students and lecturers	Lectures, Lab demonstration, Group discussion		Participation

Participation		Lab demonstration, Group discussion	Show an appropriate acceptance to lecturer's directions, corrections and evaluation	7
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8. تقييم الطلبة (Assessment)

توزيع الدرجات لكل أسلوب	توقيت التقييم	الأساليب المستخدمة
30	خلال الفصل	Assignments Each student will be asked to submit several practical assignments for data analysis
20	الأسبوع التاسع	Mid-term Exam
10	خلال الفصل	Class preparation & participation
40	أسبوع الامتحانات النهائية	Final Exam includes essay questions (25%) and critique paper (15%)
100		Total Grade

9. الكتاب المقرر (Text Book)

SPSS Survival manual	المرجع الرئيس
Julie Pallant	المؤلف
Open University Press; 6th edition edition (April 16, 2016)	الناشر
2016	السنة
6 rd	الطبعة
NA	الموقع الالكتروني للمرجع

10. المراجع الإضافية (References) (وتشمل الكتب والبحوث المنشورة في الدوريات او المواقع الالكترونية)

Field, A. (2018). Discovering Statistics Using SPSS, 5th edition. SAGE Publications Ltd	-1
Harris , M. & Taylor, G. (2008). Medical Statistics Made Easy, 2nd edition. Scion Publishing Ltd.	-2
	-3

Additional Notes

Critique Paper	Each student will be asked to critique the statistical methods used to analyze the data in a published article that will be provided to you.
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	<p><i>Criteria of evaluation:</i></p> <p><i>-Write the problem statement and hypotheses3%</i></p> <p><i>-Statistical tests and their appropriateness for data analysis6%</i></p> <p><i>-Interpretation of results according to each statistical test used.....6%</i></p> <p><i>Total.....15%</i></p>
Plagiarism :Statement	<p>Please be advised that student work submitted for credit in this course should reflect a genuine work. It is not acceptable to reproduce, copy, or encompass any educational or scientific publication without the proper citation. Students will be subjected to the student code of conduct regarding scientific property</p>
Attendance Policy	<p>Students should attend lectures on time; no late attendance will be accepted.</p> <p>Two absents are allowed, three absents or more will result in your failure in the course.</p> <p>Students who miss the midterm or the final exam are required to bring official excuse within 3 days or they will get zero.</p>