

توصيف مقرر دراسي

١ - بيانات المقرر		
المستوى : الثالث	أسم المقرر: Biostatistics	الرمز الكودي : Math 301
عدد الوحدات الدراسية: 3	نظري 2	تمارين 2
عملية 0	التخصص: علوم البيئة	
<p>This course aims to:</p> <p>1 - Provide the students by the different types of data and how to organize and display it.</p> <p>2 - Provide the students by the concepts of central tendency, dispersion and how to calculate them.</p> <p>3 - Give the students a simple introduction in the theory of probability.</p> <p>4 - Provide the students by some discrete and continuous distributions such as Binomial, Normal and t distributions</p> <p>5 - Apply the methods of estimation and testing of hypotheses techniques.</p>		٢ - هدف المقرر:
٣ - المستهدف من التدريس المقرر:		
<p>On completing this course, students will be able to:</p> <p>a1- Organize and display the data as a simple/grouped frequency table according to its type.</p> <p>a2- describe the basic probability concepts, the measures of central tendency and dispersion.</p> <p>a3- explain the methods of estimation of the population parameters.</p> <p>a4- describe the testing of hypotheses techniques</p>		أ- المعلومات والمفاهيم:
<p>On completing this course, students will be able to:</p> <p>b1- Distinguish between the different types of data.</p> <p>b2- Apply the statistical tables such as standard normal and t tables.</p> <p>b3- Construct the confidence interval for the unknown population parameters</p> <p>b4- Design the suitable test statistic for testing a statistical hypotheses about one or two population parameters</p>		ب- المهارات الذهنية
<p>On completing this course, students will be able to:</p> <p>c1 -Critically calculate the measures of central tendency and dispersion</p> <p>c2- Design and interpret the confidence interval for the unknown population parameters</p> <p>c3- Critically apply the testing of hypotheses techniques about</p>		ج- المهارات المهنية الخاصة بالمقرر:

the population parameters					
On completing this course, students will be able to: d1- express themselves and to present their views d2- Work effectively both in a group and independently. d3- Solve problems				د- المهارات العامة :	
1- Organizing and displaying data 2- Basic summary of statistics: measures of Central tendency and measures of dispersion 3- Basic probability concepts 4- Probability distributions: Binomial - Poisson - Normal and t 5- Sampling distributions and estimation of parameters for one and two Populations: Mean and Proportion. 6- Testing of hypotheses about parameters of one and two populations: Mean and proportion.				٤ - محتوى المقرر:	
5 - Teaching and Learning Methods 5.1 : Lectures 5.2 : Homework				٥ - اساليب التعليم والتعلم:	
The same as normal students, only skeletal disabilities are allowed in the Faculty of Science.				٦ - أساليب التعليم والتعلم للطلاب ذوي القدرات المحدودة:	
٧ - تقويم الطلاب :					
7 - Student Assessment Methods				أ- الأساليب المستخدمة :	
7-1.	Semester works	to assess	a1-a4,b1-b2,c1-c2,		
7-2.	Oral exam	to assess	d1-d3		
7-3	Final exam	to assess	a1-a4, b1-b4,c1-c4		
Assessment Schedule				ب- التوقيت :	
Assessment 1		Semester works	week	6	
Assessment 2		Oral exam	week	13	
Assessment 3		Final exam	week	15	
Weighting of Assessments				ج- توزيع الدرجات :	
Final-Term Examination		90			
Oral Examination		10			
Total		100			
٨- قائمة الكتب الدراسية والمراجع :					

6.1 Department notes authorized by the department	أ- مذكرات:
6.2- Daniel, W.A. Biostatistics: A foundation for analysis in the health sciences. 4th ed. New York: Wiley, 1987	ب- كتب ملزمة
6.3 N.A. Hasabelnaby Elementary Biostatistics with Applications from Saudi Arabia. King Saud University, 1996.	ج- كتب مقترحة :
http://en.wikipedia.org/wiki/Biostatistics , http://www.hsph.harvard.edu/departments/biostatistics/	د- دوريات علمية أو نشرات..

Biostatistics	مسمى المقرر
Math 112	كود المقرر

(أ) مصفوفة المعارف والمهارات
المستهدفة من المقرر الدراسي

المحتويات للمقرر	اسبوع الدراسة	المعارف الرئيسية	مهارات ذهنية	مهارات مهنية	مهارات عامة
1- Organizing and displaying data.	1	a1	b1	c1	d3
2- Basic summary of statistics: measures of Central tendency and measures of dispersion.	2-3	a2	b1	c2	d3
3- Basic probability concepts.	4-5	a2	b2		d3
4- Probability distributions: Binomial - Poisson - Normal and t.	6-8	a2	b2		d3
5- Sampling distributions and estimation of parameters for one and two Populations: Mean and Proportion.	9-11	a3	b2,b3	c2	d1,d2,d3
6- Testing of hypotheses about parameters of one and two populations: Mean and proportion.	12-14	a4	b2,b4	c3	d1,d2,d3

رئيس مجلس القسم العلمي أ.د.

أستاذ المادة: د.