

جامعة : المنصورة

كلية : العلوم

قسم / الرياضيات

توصيف مقرر دراسي

١- بيانات المقرر	
المستوى : الثالث	أسم المقرر: Biostatistics
الرمز الكود: ٣٠١	
البرنامج : الكيمياء	
عدد الوحدات الدراسية: ٢ نظري : ٢ تمارين: ١ عملي:-	

<p>٢- هدف المقرر:</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> <p>For students undertaking this course, the aims are to:</p>	
<p>٣- المستهدف من التدريس المقرر:</p> <p>a- Knowledge and Understanding :</p> <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>	<p>أ- المعلومات والمفاهيم:</p>
<p>b- Intellectual Skills: On completing this course, students will be able to:</p> <p>b1- Distinguish between the different types of data.</p>	<p>ب- المهارات الذهنية</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>	
<p>c-Professional and Practical Skills: 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 the population parameters</p>	<p>ج- المهارات المهنية الخاصة بالمقرر:</p>
<p>d-General and Transferable Skills: On completing this course, students will be able to:</p> <p>d1- Solve problems on a scientific basis.</p>	<p>د- المهارات العامّة :</p>
<p>1- Organizing and displaying data</p> <p>2- Basic summary of statistics: measures of Central tendency and measures of dispersion</p> <p>3- Basic probability concepts</p> <p>4- Probability distributions: Binomial - Poisson - Normal and t</p> <p>5- Sampling distributions and estimation of parameters for one and two Populations: Mean and Proportion.</p> <p>6- Testing of hypotheses about parameters of one and two populations: Mean and proportion.</p>	<p>هـ- محتوى المقرر:</p>
<p>5.1 - Lectures.</p> <p>5.2 – Tutorial</p> <p>5.3 - Laboratory work.</p> <p>5.4 - Home works, reports and discussion groups</p>	<p>و- أساليب التعليم والتعلم:</p>
<p>The same as normal students, only skeletal disabilities are allowed in the Faculty of Science.</p>	<p>ز- أساليب التعليم والتعلم للطلاب ذوي القدرات</p>

			المحدودة :
٧- تقويم الطلاب :			
7- Student Assessment Methods			أ- الأساليب المستخدمة :
Final exam	to assess	a1-a4,b1-b4,c1-c3,d1	
Oral exam	to assess	c1-c3,d1	
Semester works	To assess	a1-a4,b1-b4	
Assessment Schedule			ب- التوقيت :
Assessment 1	Week #final exam	Week 14	
Assessment 2	Week #oral exam	Week 13	
Assessment 3	Week # Semester works	Week 6	
<i>Weighting of Assessments</i>			ج- توزيع الدرجات :
Final-Term Examination	80%		
Oral Examination	10%		
Practical Examination	0%		
Semester work	10%		
Mid-term examination	0%		
Other types of assessment	0%		
Total	100%		
٨- قائمة الكتب الدراسية والمراجع :			
Department notes			أ- مذكرات:
			ب- كتب ملزمة

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

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	d1
2- Basic summary of statistics: measures of Central tendency and measures of dispersion.	2-3	a2	b1	c2	d1
3- Basic probability concepts.	4-5	a2	b2		d1
4- Probability distributions: Binomial - Poisson - Normal and t.	6-8	a2	b2		d1
5- Sampling distributions and estimation of parameters for one and two Populations: Mean and Proportion.	9-11	a3	b2,b3	c2	d1
6- Testing of hypotheses about parameters of one and two populations: Mean and proportion.	12-13	a4	b2,b4	c3	d1

أستاذ المادة : د./مجدى يوسف برسوم فرح

رئيس مجلس القسم العلمي : أ.د / مجدى الياس فارس