

جامعة : المنصورة

كلية : العلوم

قسم : الرياضيات

١ - بيانات المقرر		
الرمز الكودي :Cs121	اسم المقرر: Computer Science	المستوى : الأول (بيولوجي)
التخصص : علوم البيئة	عدد الوحدات الدراسية : ٣ نظري : ١	تمارين : ٠ عملي : ٢

٢ - هدف المقرر :	1- Gain knowledge and understanding of the computer hardware and software 2 – Develop a set of skills that enable the student to understand the basic principles of information technology (IT) 3 - Understand the functions of the operating system and its applications 4 - Acquire student basic concepts of internet and world wide web (www)
٣ - المستهدف من تدريس المقرر	
أ- المعلومات و المفاهيم :	a- On completing this course, students will be able to: a1- describe numbers in different forms of number systems a2-Identify the basic concepts of the characteristics, generations and types of computers. a3- Describe the components of hardware, types of networks and software a4- Identify various types of operating systems such as DOS and WINDOWS a5- Demonstrate different types of networks and usage of internet
ب- المهارات الذهنية :	b- On completing this course, students will be able to: b1 - Distinguish between windows operating system and MS DOS b2- Differentiate between different types of networks b3- Differentiate between Input devices and output devices
ج- المهارات المهنية الخاصة بالمقرر :	c- On completing this course, students will be able to: c1- compute numbers in different systems c2 - Solve hardware and software problems c3- Use Internet facilities in self learning
د- المهارات العامة :	d- On completing this course, students will be able to: d1- Solve problems in number systems d2- Work effectively both in a team and independently d3- Exhibit the sense of beauty and neatness d4- Use information and communication technology effectively

<b>1- Number systems</b> <b>2-Basic concepts- characteristics of computer- history of computer generations</b> <b>3-Computer hardware, memory and storage</b> <b>4-Software - software types- languages and high level languages</b> <b>5-Disk operating System (DOS)</b> <b>6-Introduction to windows95- desktop - windows explorer – Introduction to windows XP</b> <b>7-Data communication and computer, computer network - network topology</b> <b>8-Internet history- services of internet, world wide web</b>	٤- محتوى المقرر :
<ul style="list-style-type: none"> <li>One hours lecture per week.</li> <li>Two hours practical class per week</li> <li>Homework</li> </ul>	٥- أساليب التعليم و التعلم
The same as normal students, only skeletal disabilities are allowed in the Faculty of Science.	٦- أساليب التعليم و التعلم للطلاب ذوي القدرات المحدودة
٧- تقويم الطلاب :	
<b>1- Oral</b> <b>2- Practical exam to assess c1-c5, d1-d4</b> <b>3- Final exam to assess a1-a4, b1-b3</b>	أ- الأساليب المستخدمة
<b>1- Oral and Practical exam week 14</b> <b>2- Final exam week 15</b>	ب- التوقيت
- Mid-Term Examination 0% - Final-Term Examination 90% - Oral Examination 10% - Practical Examination 0% - Semester work 0% - Other types of assessment 0% <b>Total 100%</b>	ج- توزيع الدرجات
٨- قائمة الكتب الدراسية و المراجع :	
- Available and authorized by the mathematics Dept	أ- المذكرات
- Dictionary of PC Hardware and Data Communications Terms, by Mitchell Shnier	ب- الكتب ملزمة
- Martin Campbell-Kelly and William Aspray, Computer .A History of the information machine New York 1996	ج- كتب مقترحة
<a href="http://en.wikipedia.org/wiki/Computer_science">http://en.wikipedia.org/wiki/Computer_science</a> and other related web sites of the field of computer science	د- دوريات علمية أو نشرات

(أ) مصفوفة المعارف والمهارات المستهدفة من المقرر الدراسي

المحتويات للمقرر	اسبوع الدراسة	المعارف الرئيسية	مهارات ذهنية	مهارات مهنية	مهارات عامة
Number systems	١-٢	a1	b1	c1	d1

<b>Basic concepts- characteristics of computer- history of computer generations</b>	<b>٤-٣</b>	<b>a2</b>		<b>c2</b>	<b>d2</b>
<b>Computer hardware, memory and storage</b>	<b>٥</b>	<b>a3</b>	<b>b4</b>	<b>c2</b>	<b>d3</b>
<b>Software - software types- languages low and high level languages</b>	<b>٧-٦</b>	<b>a3</b>	<b>b2</b>	<b>c2</b>	<b>d3</b>
<b>Disk operating System (DOS)</b>	<b>٨</b>	<b>a4</b>	<b>b2</b>		<b>d2</b>
<b>Introduction to windows95- desktop - windows explorer – Introduction to windows XP</b>	<b>١٠-٩</b>	<b>a4</b>	<b>b2</b>	<b>c2</b>	<b>d3</b>
<b>Data communication and computer, computer network - network topology</b>	<b>١٢-١١</b>	<b>a5</b>	<b>b3</b>	<b>c3</b>	<b>d4</b>
<b>Internet history- services of internet, world wide web</b>	<b>١٣</b>	<b>a5</b>	<b>b3</b>	<b>c3</b>	<b>d4</b>

رئيس مجلس القسم العلمى : أ.د. أحمد حبيب محمد نجيب البسيونى

أستاذ المقرر: أ.د. حمدى نبيه عجيزه