

## متطلبات الكلية

(Mathematics) الرياضيات	CIT01	متطلب سابق
<p>This course provides students fundamental principles in mathematics. This course include the principles of Linear Equations and Applications, Linear Inequalities, Absolute Value in Equations and Inequalities, Quadratic Equations and Applications, laws of Power and Logarithm, Power and Logarithm Equations, Type of Functions, limited and continuity. Some methods will be used in the teaching of this course, such as: Lecture, problem-solving, Brainstorming, micro- assignments and micro-report.</p>	-----	
		متطلب مصاحب
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(calculus) التفاضل والتكامل	CIT02	متطلب سابق
<p>This course provides students fundamental principles in Calculus. Course include the principle of limited and show the theories of limited and continue, how to procedure differentiation and its special rules with the study of implicit functions differential , defined the integration and the link between the processes of differentiation and integration, integration rules, methods of integration and its practical applications. Some methods will be used in the teaching of this course, such as: lectures, problem-solving, Brainstorming, micro- assignments and micro-report.</p>		CIT01
		متطلب مصاحب
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(Probability and Statistics) الاحتمالات والإحصاء	CIT03	متطلب سابق
<p>This course provides students fundamental principles in Calculus. Course include the principle of limited and show the theories of limited and continue, how to procedure differentiation and its special rules with the study of implicit functions differential , defined the integration and the link between the processes of differentiation and integration, integration rules, methods of integration and its practical applications. Some methods will be used in the teaching of this course, such as: lectures, problem-solving, Brainstorming, micro- assignments and micro-report.</p>		CIT02
		متطلب مصاحب
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(Computer Fundamentals) أساسيات الحاسوب CIT04	متطلب سابق
<p>This course will introduce: 1) fundamental electronic data processing concepts and associated terminologies; 2) the development of computers and computer applications; and 3) the impact of computers on society. Furthermore, peripherals of an actual computing system, CPU configuration, device interfaces, binary number systems, and professional ethical issues in computing will be discussed.</p>	-----
	متطلب مصاحب
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(Problem Solving and البرمجة وحل المسائل CIT05 Programming)	متطلب سابق
<p>This course will cover the abstract and structure of programming, problem-solving techniques and tools, flowcharts and algorithms. Abstract data types and their list, variables declarations and memory locations. Arithmetic operators, operator's precedence, equality and relational operators, cohesion and coupling. Abstract programming structure types: sequences, selection (decision making), iteration, multiple iteration, and errors types and program structure correctness and verification, one and multi-Dimensions arrays (basics using and operations). According to the course plan, the prerequisite of this course is Computer fundamentals. To achieve the course goals, different teaching strategies will be applied such as direct, indirect and interactive and self-learning.</p>	CIT04
	متطلب مصاحب
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(Data Structures and هياكل البيانات والخوارزميات CIT07 Algorithms)	متطلب سابق
<p>This course will cover the abstract and structure of programming, problem-solving techniques and tools, flowcharts and algorithms. Abstract data types and their list, variables declarations and memory locations. Arithmetic operators, operator's precedence, equality and relational operators, cohesion and coupling. Abstract programming structure types: sequences, selection (decision making), iteration, multiple iteration, and errors types and program structure correctness and verification, one and multi-Dimensions arrays (basics using and operations). According to the course plan, the prerequisite of this course is Computer fundamentals. To achieve the course goals, different teaching strategies will be applied such as direct, indirect and interactive and self-learning.</p>	CIT06
	متطلب مصاحب
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(Introduction to Web Design) مقدمة إلى تصميم الويب CIT07	متطلب سابق
<p>In this course, you will learn to create and maintain Web pages using HTML and CSS. This course is taught in our PC computer lab, but you can do the coursework on other computer platforms. It is assumed that the student is proficient with the operating system on their computers, including file management and connecting to the Internet. It is also assumed that you are proficient with using of Web browsers. In this course you will learn to edit HTML and CSS files directly using html or text editors. You should NOT be using a Web authoring program in a WYSIWYG (What You See Is What You Get) environment, such as Adobe Dreamweaver. You may, however, use the Code View of Dreamweaver or other such programs. Learning to create Web pages can be frustrating at times because simple, easily-missed typos can cause page errors. But with careful typing, use of page validation, and practice, it is not too difficult to become proficient. The more you practice with HTML and CSS coding, the better you will become, so students are encouraged to experiment. Before this approach should be studied material programming and problem solving.</p>	<p>CIT04</p> <p>متطلب مصاحب</p> <p>-----</p>

(Introduction to Database) مقدمة إلى قواعد البيانات CIT09	متطلب سابق
<p>There are two principles goals for this course. First, to introduce the fundamental concepts necessary for the design and use of a database such as DBMS, relational model and relational algebra and calculus. Also basic stages of DB design and how to model the data using ERD and normalization will be covered. Second, to provide practical experience in applying these concepts using one of commercial database management systems which is Microsoft Access 2007 and SQL and require Problem solving and Programming.</p>	<p>CIT05</p> <p>متطلب مصاحب</p> <p>-----</p>

(Data Structures and Algorithms) البرمجة الموجهة بالكائنات CIT10	متطلب سابق
<p>This course presents a conceptual and practical introduction to object oriented programming, exemplified by Java. As well as providing a grounding in the use of Java, the course will cover general principles of programming in imperative and object oriented frameworks. The course should enable you to develop programs that support experimentation, simulation and exploration in other</p>	<p>CIT06</p> <p>متطلب</p>

parts of the Informatics curriculum (e.g. the capacity to implement, test and observe a particular algorithm).	مصاحب
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(Principles of Operating Systems) مبادئ نظم التشغيل CIT1	متطلب سابق
<p>The course will start with a brief historical perspective of the evolution of operating systems over the last fifty years, and then cover the major components and structure of most operating systems. This discussion will cover the tradeoffs that can be made between performance and functionality during the design and implementation of an operating system. Particular emphasis will be given to these major OS subsystems: process management, real and virtual memory management, file system and disk management, and I/O management. According to the course plan of the program, the prerequisite of this course is Computer Architecture and Organization. We recommend data structures as an additional prerequisite for this course</p>	CIT07
	متطلب مصاحب
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(Graduation Project) مشروع التخرج CIT12	متطلب سابق
<p>The student will continue the software development of his project problem of. In this course, the student is expected to deliver a detailed report including all the software development phases.</p>	-----
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(Industrial Training) التدريب الخارجي CIT13	متطلب سابق
<p>Training is an important aspect of the educational process in the faculty of Computing and IT. Student is required join an IT center in a government or private sector as a full time for at least 8 weeks in the last summer prior to his graduation. The aim of the student training is to acquire the experience in applying what he learned in real life and in team working. The student training is evaluated through both his training advisor at the IT center and the training committee through the report he provides about his training.</p>	-----
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