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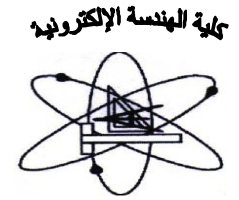
Course Syllabus

Department offering the program: Industrial electronics and Control Engineering
Department offering the course: Industrial electronics and Control Engineering

Course basic information :															
Course Code: AC344	Course Title: Microcontrollers Level : (3) Semester : 1														
Department requirement	Teaching hours: Lecture [2] Tutorial [0] - Lab [3]														
Course objectives	<ol style="list-style-type: none">1. To provide students with the several ways of accomplishing , utilizing and manipulating the different types of a microcontrollers.2. Programming the microcontroller with high efficiency and reliability using different embedded languages.3. Having acquired a good knowledge of improving interfacing of the microcontroller with the outer media. And to connect with the PC.4. To analyze embedded devices and analyze the microcontroller different units.														
Course Contents	Introduction and review - Logic design - Microprocessor architecture – Memory - Arithmetic logic unit - PIN/PORT operation - Programming - interfacing methods – Applications														
Assessment															
Weighting of Assessment	<table><tbody><tr><td>- Lab. tutorial and quizzes :</td><td>4 %</td></tr><tr><td>- Mid-term examination:</td><td>12 %</td></tr><tr><td>- Case study and/or practical exam:</td><td>20 %</td></tr><tr><td>- Final – term examination:</td><td>60 %</td></tr><tr><td>- Other types of assessment:</td><td>4 %</td></tr><tr><td></td><td><hr/></td></tr><tr><td></td><td>Total 100 %</td></tr></tbody></table>	- Lab. tutorial and quizzes :	4 %	- Mid-term examination:	12 %	- Case study and/or practical exam:	20 %	- Final – term examination:	60 %	- Other types of assessment:	4 %		<hr/>		Total 100 %
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- Final – term examination:	60 %														
- Other types of assessment:	4 %														
	<hr/>														
	Total 100 %														
List of text books and references:															
Text books	<ul style="list-style-type: none">• Frederick M Cady "Microcontrollers and Microcomputers Principles of Software and Hardware														



جامعة المنوفية
كلية الهندسة الإلكترونية
قسم هندسة الإلكترونيات الصناعية والتحكم



	Engineering", Prentice Hall, Jun 19, 2009.
Recommended books	<ul style="list-style-type: none">• Myhe paedho, Handbook of microcontrollers, McGraw Hill, 1999.• Fundamentals and Applications with PIC , Fernando E. Valdes-Perez and Ramon Pallas-Areny, Feb 11, 2009

