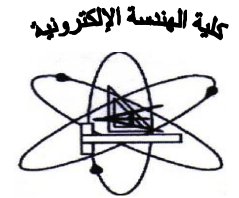


This file has been cleaned of potential threats.

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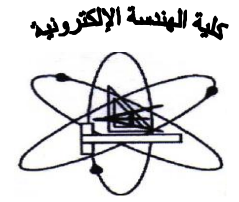
Course Syllabus

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

Course basic information :																							
Course Code: AC445	Course Title: Elective-3 (Advanced Programming Languages-2)	Level : (4) Semester :1																					
Department requirement	Teaching hours: Lecture [3] Tutorial [1] - Lab [0]																						
Course objectives	<ol style="list-style-type: none">1. To explain the basic principles of sequential processing, state machine, and timing and simulation.2. To learn the basic element in VHDL.3. To study the structural and the behavioral modeling of4. VHDL synthesis techniques and recommendations .4. To study design of complex systems containing both FBGA and microprocessors.																						
Course Contents	Sequential Processing Using VHDL- State Machine - Timing and Simulation - Basic Elements in VHDL - Behavioral Modeling - Structural Modeling VHDL Synthesis Techniques and Recommendations - Logic Systems Design Cycle - Timing Issues in FPGA Synchronous Circuits - Design issues in Complex Systems containing both FPGA and Microprocessors.																						
Assessment																							
Weighting of Assessment	<table><tbody><tr><td>- Class tutorial and quizzes :</td><td>16</td><td>%</td></tr><tr><td>- Mid-term examination:</td><td>16</td><td>%</td></tr><tr><td>- Case study and/or practical exam:</td><td>.....</td><td>%</td></tr><tr><td>- Final – term examination:</td><td>68</td><td>%</td></tr><tr><td>- Other types of assessment:</td><td>.....</td><td>%</td></tr><tr><td></td><td><u> </u></td><td></td></tr><tr><td></td><td>Total</td><td>100 %</td></tr></tbody></table>		- Class tutorial and quizzes :	16	%	- Mid-term examination:	16	%	- Case study and/or practical exam:	%	- Final – term examination:	68	%	- Other types of assessment:	%		<u> </u>			Total	100 %
- Class tutorial and quizzes :	16	%																					
- Mid-term examination:	16	%																					
- Case study and/or practical exam:	%																					
- Final – term examination:	68	%																					
- Other types of assessment:	%																					
	<u> </u>																						
	Total	100 %																					
List of text books and references:																							
Text books	• Industrial Network Security, Second Edition: Securing																						



جامعة المنوفية
كلية الهندسة الإلكترونية
قسم هندسة الإلكترونيات الصناعية والتحكم



	<p>Critical Infrastructure Networks for Smart Grid, SCADA, Dec 29, 2014.</p> <ul style="list-style-type: none">• Brogan, Modern control Theory , MacGraw Hill 2002
Recommended books	<ul style="list-style-type: none">• W.J Grantham, T.L.Vincent, System analysis and design, John Wiley & Sons, 1993

