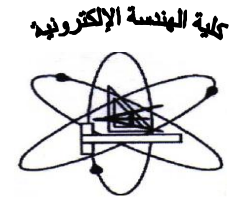


This file has been cleaned of potential threats.

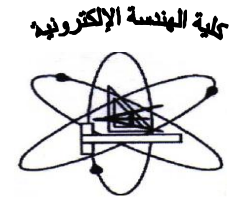
To view the reconstructed contents, please SCROLL DOWN to next page.



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: AC351	Course Title: Elective-2 (Mechatronics 2)	Level : (3) Semester :2																					
Department requirement	Teaching hours: Lecture [3] Tutorial [1] - Lab [0]																						
Course objectives	<ol style="list-style-type: none">1. To define the basic principles of mechatronic systems. .2. To demonstrate the function of the different components of a mechatronic system3. To study the design of mechatronic systems4. To study some applications of mechatronic systems																						
Course Contents	Introduction to Mechatronics - Fundamentals of Mechatronics - Mechatronics Components - Motion Transfer - Gears - Belts - Screw -Electrical Drives - Hydraulic Drives -Pneumatic Drives -Driving circuits -Mechatronics Applications -Mechatronics Numerical Control Machine -Mechatronics Computer Numerical Control Machine- Case Study.																						
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	<ul style="list-style-type: none">• Clarence W. de Silva" Mechatronics: A Foundation", McGraw-Hill, Jun 4, 2010																						



	<ul style="list-style-type: none">• Musa Jouaneh "Fundamentals of Mechatronics", Wiley and Sons, Jan 1, 2012
Recommended books	<ul style="list-style-type: none">• W. Bolton Mechatronics " Electronic control systems in mechanical and electrical engineering", Taylor and Francis Group, (5th Edition) Feb 3, 2013

