

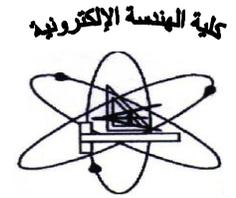
## Course Syllabus

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

Course basic information :																				
Course Code: AC342	Course Title: Electronic and industrial measurements	Level : (3) Semester :1																		
Department requirement	Teaching hours: Lecture [3] Tutorial [ 2 ] - Lab [0 ]																			
Course objectives	<ol style="list-style-type: none"><li>1. To define the ways of accomplishing electronic or industrial measurements with high efficiency and reliability.</li><li>2. Having acquired a good knowledge of improving analog and digital instruments.</li><li>3. To analyze indicators, X-Y recorders, logic analyzers and Harmonic analyzers.</li><li>4. Having acquired a good knowledge of improving analogue to digital and digital to analog converters.</li><li>5. Having acquired a good knowledge of improving Transducers and signal conditioners</li><li>6. To analyze Embedded devices</li></ol>																			
Course Contents	Digital instruments - Sensors, electrodes, and transducers - Analog signal conditioning - Mechanical chart recorders - Signal analyzers - Logic analyzers																			
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>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:	.....	%		Total	100 %
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- Case study and/or practical exam:	...	%																		
- Final – term examination:	68	%																		
- Other types of assessment:	.....	%																		
	Total	100 %																		
List of text books and references:																				



جامعة المنوفية  
كلية الهندسة الإلكترونية  
قسم هندسة الإلكترونيات الصناعية والتحكم



Text books	<ul style="list-style-type: none"><li>• Roman Malaric, Instrumentation and Measurement in Electrical Engineering, Brown Walker press, April 20, 2011.</li></ul>
Recommended books	

