

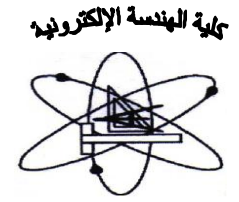
## Course Syllabus

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

Course basic information :													
Course Code: AC452	Course Title: Elective/4 (Control using advanced software) Level : (4) Semester :2												
Department requirement	Teaching hours: Lecture [3] Tutorial [1] - Lab [0]												
Course objectives	<ol style="list-style-type: none"><li>1. To study basic concepts related MATLAB programming</li><li>2. To explain advanced MATLAB Programming.</li><li>3. To learn different forms of investigating control system characteristics</li><li>4. To master advanced MATLAB applications in control systems.</li></ol>												
Course Contents	MATLAB fundamentals - Plotting Commands - Control Statements - DC Analysis - Transient Analysis - State space system design and Analysis												
Assessment													
Weighting of Assessment	<table><tbody><tr><td>- Class tutorial and quizzes :</td><td>16 %</td></tr><tr><td>- Mid-term examination:</td><td>16 %</td></tr><tr><td>- Case study and/or practical exam:</td><td>... %</td></tr><tr><td>- Final – term examination:</td><td>68 %</td></tr><tr><td>- Other types of assessment:</td><td>..... %</td></tr><tr><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:													
Text books	<ul style="list-style-type: none"><li>• Dingyü Xue, YangQuan Chen, Derek P. Atherton, “Linear Feedback Control Analysis and Design with MATLAB”, McGraw-Hill, 2007.</li></ul>												
Recommended books	<ul style="list-style-type: none"><li>• Cesar Perez Lopez , MATLAB Control Systems Engineering, TSTC Publishing, 2014</li></ul>												



جامعة المنوفية  
كلية الهندسة الإلكترونية  
قسم هندسة الإلكترونيات الصناعية والتحكم



	<ul style="list-style-type: none"><li>• Dingyu Xue and Yang Quan Chen, Modeling, Analysis and Design of Control Systems in MATLAB and Simulink, Wiley and Sons, Nov 14, 2014</li><li>•</li></ul>
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