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## جامعة المنوفية كلية الهندسة الإلكترونية قسم هندسة الالكترونيات الصناعية والتحكم



## **Course Syllabus**

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

<b>Department offering the course</b> : Industrial electronics and Control Engineering			
Course basic informat	ion:		
Course Code: AC345	Course Title: Elective-1 (Modeling and Simulation of Control System)	Level: (3) Semester:1	
Department requirement	Teaching hours: Lecture [3] Tutorial [1] - Lab [0]		
Course objectives	<ol> <li>To acquire a good knowledge of different types of modeling and simulation of control systems</li> <li>To explain the relation between electronic systems and mechanical systems.</li> <li>To integrate electrical, electronic and mechanical components and equipment with transducers, actuators and controllers in control systems.</li> <li>To learn how to simulate control systems using MATLAB</li> </ol>		
Course Contents  Assessment	Introduction to control systems - So Mathematical Modeling of some Linearization-Simulation of control	e types of control systems-	
Weighting of Assessment	- Class tutorial and quizzes: 16 % - Mid-term examination: 16 % - Final – term examination: 68 % - Other types of assessment: %  Total 100 %		
List of text books and	references:		
Text books	S. B. Niku, Introduction to robot and Applications, John Wiley &	Sons Ltd, 2011.	
Recommended books	<ul> <li>R. S. Burns, Advanced Control I NY,2001</li> <li>System Dynamics: Modeling, Si Mechatronic Systems, Dean C. I Margolis, Feb 28, 2012.</li> </ul>	mulation, and Control of	