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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

Course basic informat	ion:	
Course Code: AC448	Course Title: Industrial Automation systems	Level: (4) Semester: 2
Department requirement	Teaching hours: Lecture[2] Tutorial [2] - Lab [0]	
Course objectives	 To explain the principles of industrial automation systems To study methods of integrating different technologies and machines in industrial automation systems To define the methods of programming of industrial automation systems To prepare the application of industrial automation systems 	
Course Contents	Introduction to Automated systems -Supervisory control Data acquisition in automated system SCADA Configuration, Communication - Distributed Control System - Applications of Distributed Control System - Automation system - Robotics and CNC machines - Types of CNC machines - CNC components, programming	
Assessment		
Weighting of Assessment	Class tutorial and quizzes :Mid-term examination:Case study and/or practical exam:	16 % 16 %
	- Final – term examination:	68%
	- Other types of assessment:	
	Т	Cotal 100 %
List of text books and	references:	
Text books	 Guide to Industrial Control S Security - Supervisory Cont Acquisition (SCADA) syste A.S Boyer ," SCADA : Supe Data Acquisition ",John Wi 	rol and Data ms, Dec 19, 2013 ervisory Control and



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	H. Kopetz, M.G. Rodd "Distributed Computer Control Systems", Prentice Hall Int, 1992
Recommended books	 Vehappen and A .Perrira ," Foundation Fieldbus" ISA 2005 A. S. Tannenbaum "Computer Networks " Prentice Hall Int. 1996 Antti.j Koivo " Fundamentas for control of Robotic manipulators" John Wiley,1989.

