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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

Department offering the course: Industrial electronics and Control Engineering Course basic information:		
Department requirement	Teaching hours: Lecture [3]	Tutorial [2] - Lab [0]
Course objectives	 To acquire a good knowledge of the techniques for sampling theorem and signal analysis. To explain the different categories of digital controllers theory and design. To acquire a good knowledge of identification techniques for digital control systems. To pepare the different categories of adaptive control system techniques. 	
Course Contents	Signal analysis - Sampling theorem diagram- Stability- Digital controll identification - Self-tuning controll	er design - System
Assessment		
Weighting of Assessment	- Class tutorial and quizzes : - Mid-term examination:	16 % 16 %
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	- Case study and/or practical exam:	%
Q.	- Final – term examination:	68 %
	- Other types of assessment:	
		Total 100 %
List of text books and	references:	
Text books	20, 2012 • C. L. Phillips, H. T. Nagle '	on: Analysis and Design, Sep



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	 K. Ogata, "Discrete Time Control Systems", Prentice-Hall, Inc, Upper Saddle River, Nj, 2nd ed., 1995.
Recommended books	 K. M. Moudglya, "Digital Control", John Wiley & Sons, Ltd. 2007. G. F. Franklin, J.D. Powell and M. Workman "Digital control Dynamic Systems", Addison Wesley Longman, Menlo Parlc, CA, 3rd ed., 1998. Landau, Ioan Doré, Zito, Gianluca, "Digital Control Systems, Design, Identification and Implementation" 2006.

