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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: AC343	**Course Title:** Linear Control Systems	**Level : (3)** **Semester :1**
Department requirement	**Teaching hours: Lecture [3] Tutorial [2] - Lab [0]**	
Course objectives	1. To explain the several ways of dealing with the analysis of linear systems. 2. Having acquired a good knowledge of design linear system controllers, and perform system desired specifications and stability. 3. To acquire relevant design skills using MATLAB .	
Course Contents	Introduction to linear systems - Root Locus analysis - Root Locus Design - Frequency response - Stability based on frequency domain - Frequency domain compensation - Design of classical controllers - Ziegler-Nicole Design methods - Applications in MALAB	
Assessment		
Weighting of Assessment	- Class tutorial and quizzes : 8 % - Mid-term examination: 16 % - Case study and/or practical exam: … % - Final – term examination: 68 % - Other types of assessment: 8 % Total 100 %	
List of text books and references:		
Text books	• Katsuhiko Ogata "Modern Control Engineering ", 5-th Edition, Wiley and Sons, Sep 4, 2009. •	
Recommended books	James Melsa and Donald Schultz, " Linear Control Systems ", TSTC Publishing, Oct 1, 1992,	