



Course weekly Outline

Course Instructor :	Assistant Professor Dr. Hazem I. Ali				
E_mail :	hazem.i.ali@uotechnology.edu.iq				
Title :	Computer Control				
Course Coordinator:					
Course Objective:	Students should acquire a fundamental understanding of digital control systems and their design				
Course Description:	Introduction to real time computer control, Concepts of computer control, Hardware requirements for real time applications, Real time programming, Review of Z transform, Sampled data control systems, Analysis of discrete control systems, Stability analysis, Design of digital controllers				
Textbooks:	Digital control system analysis and design, L. Phillips and H. Nagle				
References:	Discrete control systems, Ogata Digital control of dynamic systems, F. Franklin, J. David Powel Computer controlled systems: Theory and Design, Astrom				
Course Assessment:	Term Tests	Laboratory	Quizzes	Project	Final Exam
	As (20%)	-	As (10%)	----	As (70%)
General Notes:					

Course weekly Outline

week	Date	Topics Covered	Lab. Experiment Assignments	Notes
1	15/9/2013	Introduction to Real time Computer Control		
2	22/9/2013			
3	29/9/2013	Concepts of computer Control		
4	6/10/2013			
5	13/10/2013	Hardware Requirements For Real time applications		
6	20/10/2013			
7	27/10/2013			
8	3/11/2013	Exam		
9	10/11/2013	Review of Z-Transform		
10	17/11/2013	Sampled data control system		
11	24/11/2013			
12	1/12/2013			
13	8/12/2013	Review		
14	15/12/2013	Exam		
15				
16				
Half-year Break				
17	9/2/2014	Analysis of discrete Control System		
18	16/2/2014			
19	23/2/2014			
20	2/3/2014			
21	9/3/2014	Stability Analysis		
22	16/3/2014			
23	23/3/2014	Review		
24	6/4/2014	Exam		
25	13/4/2014	Design of Digital controllers		
26	20/4/2014			
27	27/4/2014			
28	4/5/2014			
29	11/5/2014			
30				

Instructor Signature:

H. I. Ali

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Dr. Azad Raheem