

Course Description Form

1. Course Name:					
Control Theory III I					
2. Course Code:					
COTH1334					
3. Semester / Year:					
1 st Semester					
4. Description Preparation Date:					
16/2/2024					
5. Available Attendance Forms:					
Personal					
6. Number of Credit Hours (Total) / Number of Units (Total)					
30/6					
7. Course administrator's name (mention all, if more than one name)					
Name: Assit.prof. Dr Mohammed Jasim Email: mohamed.j.mohamed@uotechnology.edu.iq Name: Assit Lecturer Mustafa Kareem Khashan Email: Mustafa.k.khashan@uotechnology.edu.iq					
8. Course Objectives					
Course Objectives			<ul style="list-style-type: none"> • Teaching the student to analyze linear systems using the frequency domain with different methods of analysis. This analysis can be carried out by finding the relationship between the values of output and input and the phase difference between them by changing the frequency values of the input. As well as studying and discovering the stability of the system through this analysis. 		
9. Teaching and Learning Strategies					
Strategy	<ul style="list-style-type: none"> - Enable the student to know the basic principles of the concept of control. - Enable the student to analyse the various systems within the frequency domain. - Enable the student to check the stability of the control systems. - Enable the student to draw the frequency response of the control systems using different axes. - Enable the student to understand the specifications of the control systems using the parameters describing the frequency domain. - Enable the student to find the parameters of the frequency domain specifications mathematically and through drawing. 				
10. Course Structure					
Week	Hours	Required Learning	Unit or subject	Learning	Evaluation

		Outcomes	name	method	method
1-2	6		Pipeline and vector processing	Live presentation and homework	Written exam
3-4	6		Overview of Assembly Language	Live presentation and reports	Discussing and evaluating reports
5-6	6		Procedures and the Stack	Live presentation and homework	Written exam
7-8	6		Addressing Modes	Live presentation and reports	Discussing and evaluating reports
9-12	12		RISC Processors	Live presentation and homework	Written exam
13-15	6		Cache and virtual memory	Live presentation and reports	Discussing and evaluating reports

11. Course Evaluation

20% documented exam
5% Quizes
5% reports and homework

12. Learning and Teaching Resources

Required readings: - Core Texts - Course Materials - Other	- Modern Control Systems (Book) BY Katsuhiko Ogata Automatic Control System (Book) by Farid Golnarag and Benjamin C. Kuo - Lecture notes - Tutorial sheet
Main references (sources)	- Modern Control Systems (Book) BY Katsuhiko Ogata Automatic Control System (Book) by Farid Golnarag and Benjamin C. Kuo
Recommended books and references (scientific journals, reports...)	Other sources and requirements are given within of lessons in the same stage or in the previous stages addition to laboratories and projects for this stage wh are related to the subject of control
Electronic References, Websites	http://ctms.engin.umich.edu/CTMS