

Course Description Form

1. Course Name:					
Control Theory IV II					
2. Course Code:					
COTH1338					
3. Semester / Year:					
2 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			Assess the student's skill in understanding the subject of control theory based on frequency response analysis during the course by means of sudden exams, documented exams and participation in the scientific discussion in the classroom		
9. Teaching and Learning Strategies					
Strategy		<ul style="list-style-type: none"> - Develop the student's ability to use modern equipment and information technology and their relationship to engineering applications. - Develop the student's ability to choose an appropriate compensator for the purpose of obtaining the required performance for a particular system. - Develop the student's ability to understand nonlinear systems and how to deal with them in the frequency domain 			
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation 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