

جامعة البلغاء التطبيغية

Engineering Program				
Specialization	Electro-mechanical program			
Course Number	20307212			
Course Title	Control Technology Laboratory			
Credit Hours	1			
Theoretical Hours	-			
Practical Hours	3			
Pre-requisite	20307211*			



2009/2008 تطبق هذه الخطة الدراسية اعتباراً من بداية العام الجامعي 2009/2008



جامعة البلقاء التطبيقية

### **Brief Course Description:**

Experimental study and investigation of open-loop and closed loop systems and their elements using mathematical and physical models. Study of first and second order systems performance

### **Course Objectives:**

Upon the completion of this course, the student will be able to:

- 1. Build simple control loops and systems
- 2. Distinguish between real systems and their models
- 3. Evaluate performance of simple control systems
- 4. Use PC in simple control actions

Unit Number	Unit Title	Unit Content	Time Needed
1.	Elements of automatic control system	•	
2.	Feedback control and control loop diagrams	•	
3.	Stability of automatic control systems		
4.	Frequency characteristics and their applications in automatic control systems		
5.	Process time lags		
6.	Servo and motion control systems	•	
7.	Two position control systems	•	
8.	PID generic controllers	•	
9.	Controller tuning		
10.	Examples of motion control systems	· Candon	
11.	PC-based control systems	ما هلي ر الدينان دريا ا	9
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#### **Detailed Course Outline:**

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صفحة (2) من (3)





# جامعة البلغاء التطبيغية

تأسست عام 1997

# **Evaluation Strategies:**

Exams		Percentage	Date
Exams	Midterm	20%	
	practical Exam		
	Reports	30%	
	Final practical	50%	
	Exam		

# **Teaching Methodology:**

Practical experimental work in small groups

## **Text Book**

1. Laboratory sheets prepared by instructor



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