Menoufiya University
Faculty of Electronic Eng.
Department of Industrial Electronics and Control Engineering

جامعة المنوفية
كلية الهندسة الألكترونية
قسم هندسة الألكترونيات الصناعية والتحكم

Annual Course Report

(Control Engineering)

A- Basic Information

1. Title and Code	**Control Engineering AC241**
2. Programme(s) on which this course is given	AC
3. Academic year / Level of programme	2nd year/ 1st Semester
4. Units/Weekly hours	

Lecture [3] Tutorial/Practical [2] Total [5]

5- Names of lecturers contributing to the delivery of the course

a. Prof. Abdelazim Sobieh Ibrahim
b. Prof. Magdy Koutb

Course coordinator: Prof. Abdelazim Sobieh Ibrahim

External evaluators:

B- Statistical Information

No. of students attending the course:	No.	860		
No. of students completing the course:	No.	853	%	99.19
Results:				
Passed:	No.	845	%	99.06
Failed:	No.	8	%	0.94
Grading of successful students:				
Excellent:	No.	157	%	18.41
Very Good:	No.	252	%	29.54
Good:	No.	239	%	28.02
Pass:	No.	197	%	23.09

C- Professional Information

1. Course Teaching

Topic	No of hours	Lecture	Tutorial/ Practical	Lecturer
1. Dynamic system model building principles. • Introduction • Examples for some practical system.	5	3	2	**Prof. Abdelazim Sobieh Ibrahim** **Prof. Magdy Koutb**
2. Dynamic system model building principles. • Differential equation	5	3	2	
3. Dynamic system model building principles. • Laplace transform	5	3	2	
4. Dynamic system model building principles. • Time response. • Step and impulse responses	5	3	2	
5. Dynamic system model building principles. • **System transient response(steady state error and dynamics)**	5	3	2	
6. Basics of system modeling, • Mathematical models. • Physical models.	5	3	2	
7. Basics of system modeling, • Parameter models. • Balance equations	5	3	2	
8. Basics of system modeling, • application to thermal systems. • chemical and mechanical process	5	3	2	
9. Basics of system modeling, • Mechanical and electromechanical systems	5	3	2	
10. Basics of system modeling, • Analogy between different	5	3	2	

systems.				
11. Basics of system modeling, • Examples of practical systems	5	3	2	
12. Characteristics of closed loop systems • Introduction to closed loop systems • Performance of control systems	5	3	2	
13. Characteristics of closed loop systems • Pole assignments.	5	3	2	
14. Stability of linear systems • Routh Hurwitz stability	5	3	2	
Total sum	**70**	**42**	**28**	

Topics taught as a percentage of the content specified:

≥90 % ☐ **70-90 %** √ **<70%** ☐

2. Teaching and Learning Methods:

Lectures: √

Practical Training/ Laboratory: ☐

Seminar/Workshop: ☐

Class Activity: √

Case Study: ☐

Other Assignments/Homework: √

Case Study

Other assignments/homework:

3. Student Assessment:

Method of Assessment	Percentage of total
Written examination	68

Midterm exams	16
Oral Examination	0
Practical/laboratory work	0
Other Assignments/class work	16
Total	100%

Members of Examination Committee:

a. Prof. Abdelazim Sobieh Ibrahim
b. Dr. Tark Abd El-alim
c. Dr. Galal Abd El Maged Atlam

Role of external evaluator:

4. Facilities and Teaching Materials:

Totally adequate	☐
Adequate to some extent	√
Inadequate	☐

5. Administrative Constraints

- Students need extra hours for practical application.
- Insufficient class rooms and Halls.
- Insufficient assistant staff members.

6. Student Evaluation of the course: Response of Course Team

- -

7. Comments from external evaluator(s):

Response will be received.

8. Course Enhancement:

This is the first year plan

9. Action Plan for Academic Year 2012 – 2013

Improvement Field	Weak points	Action required	Person Responsible	Completion Date
Assessment Methods	No feedback of the examination to the students, so exams can not	- Formative exams during the term with a feedback to the students.	- Faculty - Department	2013

	be used for learning.			
Quality of Teaching and Learning				
Learning resources	Insufficient rooms and Halls	-More rooms.	- Faculty	2013
Course content				

Course Coordinator: Prof. Abdelazim Sobieh Ibrahim

Signature:

Date: / /