

Annual Course Report

(Intelligent Control Systems)

A-Basic Information

1 Title and Code	Intelligent Control Systems AC450
2 Programme(s) on which this course is given	AC
3 Academic year / Level of programme	4 th year/ 2 nd Semester
4 Units/Weekly hours	
Lecture 3 Tutorial/Practical 2	Total 5
5- Names of lecturers contributing to the delive	ery of the course

Prof. Belal A. AbouZalam

Course coordinator: Prof. Belal A. AbouZalam

External evaluators:

B- Statistical Information

No. of students attending the course:	No.	382		
No. of students completing the course:	No.	379	%	99.21
Results:				
Passed:	No.	373	%	98.42
Failed:	No.	6	%	1.58
Grading of successful students:				
Excellent:	No.	16	%	4.22
Very Good:	No.	57	%	15.04
Good:	No.	117	%	30.87
Pass:	No.	183	%	48.28

C-Professional Information

1. Course Teaching

Торіс	No of hours	Lecturer
Introduction to intelligent systems and their applications	5	
Crisp sets and fuzzy set theory	5	
Fuzzy operation and relations	5	
Fuzzy relations and compositional rules of inference	5	
Fuzzy Logic Control (FLC) Fuzzy like-PD	5	
Fuzzy Logic Control (FLC) Fuzzy like-PI	5	Prof. Belal A.
Comparison between conventional control and Fuzzy Logic Control	5	– AbouZalam
Neural networks introduction	5	
Intelligent systems and Neural networks	5	
Types of Neural networks	5	
Analysis of learning methods	5	
Neuro Control methods	5	7
Fuzzy Neural networks	5	
Control systems applications	5	
Total	70	

Topics taught as a percentage of the content specified:

<u>>90 %</u>

70-90 %

<70%

%

2. Teaching and Learning Methods:

Lectures:

Practical Training/ Laboratory:

Seminar/Workshop:

Class Activity:



 \checkmark

Case Study:	
Other Assignments/Homework: Case Study	\checkmark

Other assignments/homework: A real world project assigned.

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: Dr. Tark Ahmed Mahmoud

Assoc. Prof. Mohammad El Bardini Dr. Salwa El Nashar.

Role of external evaluator:

4. Facilities and Teaching Materials:

Totally adequate	
Adequate to some extent	\checkmark
Inadequate	

5. Administrative Constraints

- Students need extra hours
- 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:

Progress on actions identified in the previous year's action plan:

This is the first year plan

Improvement Field	Weak points	Action required	Person Responsible	Completion Date
Assessment Methods	No feedback of the examination to the students, so exams can not be used for learning.	- Formative exams during the term with a feedback to the students.	- Faculty - Department	2013
Quality of Teaching and Learning				
Learning resources				
Course content	Gap between up-to-date information and reference text books	- Give students more implementation exercises that cover their understanding of course.	Course coordinator	2013

9. Action Plan for Academic Year 2012 – 2013

Course Coordinator: Prof. Belal A. AbouZalam

Signature:

Date: / /