



# Annual Course Report

## (Artificial Intelligence Technologies)

### A- Basic Information

- 1 Title and Code **Artificial Intelligence Technologies - CSE 370**
- 2 Program(s) on which this course is given CSE
- 3 Academic year / Level of program 3rd year / 2<sup>nd</sup> Semester
- 4 Units/Weekly hours

Lecture 2 Tutorial/Practical 2 Total 4

5 Names of lecturers contributing to the delivery of the course

**Dr. Eng. Ahmed Moustafa Elmahalawy**

**Course coordinator: Dr. Eng. Ahmed Moustafa Elmahalawy**

**External evaluators: Prof. Fawzy Tork**

### B- Statistical Information

|  |     |     |      |
|--|-----|-----|------|
| No. of students attending the course:  | No. | 223 | 100% |
| No. of students completing the course: | No. | 212 | 95 % |

#### Results:

|             |     |     |             |    |      |
|-------------|-----|-----|-------------|----|------|
| Passed: No. | 212 | 95% | Failed: No. | 11 | 4.9% |
|-------------|-----|-----|-------------|----|------|

#### Grading of successful students:

|                |    |       |                |    |       |
|----------------|----|-------|----------------|----|-------|
| Excellent: No. | 25 | 11.2% | Very Good: No. | 91 | 40.8% |
| Good: No.      | 64 | 28.7% | Pass: No.      | 32 | 14.3% |

## Professional Information

| Content Topics   | Tutorial/<br>Practical | Lecture | No<br>of<br>hours | Achieved ILO's                          |
|--|------------------------|---------|-------------------|---|
| Intelligent software agents and multi-agent systems                | 4                      | 4       | 8                 | d1. d2. c1. c4. b1. b2.<br>a1. a2.      |
| Artificial intelligence programming in Lisp or Java                | 4                      | 4       | 8                 | d1. d3. c1. c6. b1. b3.<br>a1. a3.      |
| Decision making systems, modeling and support                      | 2                      | 2       | 4                 | d7. d8. d9. c4. c10. b2.<br>b8. a2. a5. |
| Knowledge based decision support<br>Fundamentals of expert systems | 4                      | 4       | 8                 | d6. d7. c11. c12.<br>b14. b15. a5. a6.  |
| Basic concepts of fuzzy set theory;<br>fuzzy decision making;      | 4                      | 4       | 8                 | d8. d9. c15. c16. b16.<br>b19. a6. a15. |
| Basic concepts of neural networks                                  | 2                      | 2       | 4                 | d7. d8. d9. c4. c10. b2.<br>b8. a2. a5. |
| Hybrid intelligent systems   | 2                      | 2       | 4                 | d6. d7. c11. c12. b14.<br>b15. a5. a6.  |
| Basic concepts of genetic algorithms                               | 2                      | 2       | 4                 | d1. d3. c1. c6. b1. b3.<br>a1. a3.      |
| evolutionary algorithms  | 2                      | 2       | 4                 | d8. d9. c15. c16. b16.<br>b19. a6. a15. |
| Evaluation optimization problems                                   | 2                      | 2       | 4                 | d1. d2. c1. c4. b1. b2.<br>a1. a2.      |
| <b>Total sum</b>   | 28                     | 28      | 56                |   |

### 1. Course Teaching

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:

### 3. Student Assessment:

| Method of Assessment              | Percentage of total |
|-----------------------------------|---------------------|
| Class tutorial and quizzes:       | 5 %                 |
| Mid-term examination:             | 10 %                |
| Case study and/or practical exam: | 10 %                |
| Final – term examination:         | 70 %                |
| Other types of assessment:        | 5 %                 |
| Total                             | 100 %               |

**Members of Examination Committee:**  
**Dr. Eng. Ahmed Moustafa Elmahalawy**

#### **Role of external evaluator:**

The external evaluator was not effectively involved in the student examination assessment in the last academic year.

### 4. Facilities and Teaching Materials:

|                         |                                     |
|-------------------------|-------------------------------------|
| Totally adequate        | <input type="checkbox"/>            |
| Adequate to some extent | <input checked="" type="checkbox"/> |
| Inadequate              | <input type="checkbox"/>            |

### 5. Administrative Constraints

- Insufficient class room.

### 6. Student Evaluation of the course:

- Lack of practice problems and exercises

### Response of Course Team

- An extra exercises and solved problems are added to the Tutorial of the course.

### 7. Comments from external evaluator(s):

Response has not received.

### 8. Action Plan for Academic Year 2012 – 2013

| Improvement Field       | Weak points                                      | Action required   | Person Responsible        | Completion Date |
|-------------------------|--|---|---------------------------|-----------------|
| Quality of Teaching and | Students attendance at lecture are not very good | - Engagement of students from different academic years to the | - Faculty<br>- Department | 2013            |

| Learning       |   | curriculum development   |                    |      |
|----------------|---|--|--------------------|------|
| Course content | Gap between up-to-date information and reference text books | <ul style="list-style-type: none"> <li>- add more examples.</li> <li>- add small task projects mainly for real world problem solving.</li> </ul> | Course coordinator | 2013 |

**Course Coordinator: Dr. Eng. Ahmed Moustafa Elmahalawy**

**Signature:**

**Date:**     /     /