Menoufiya University
Faculty of Computers and Information
Department of Computer Science

جامعة المنوفية
كلية الحاسبات والمعلومات
قسم علوم الحاسب

Annual Course Report

(KNOWLEDGE BASE SYSTEMS)

A- Basic Information

1-	**Title and Code**	Knowledge Base Systems / CS471
2-	**Programme(s) on which this course is given**	CS and IT
3-	**Academic year / Level of programme**	4th year - 1st Semester
4-	**Units/Weekly hours**	

Lecture 3 Tutorial/Practical 3 Total 6

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

1- Dr. Ashraf Elsisi

Course co-ordinator: Dr. Ashraf Elsisi
External evaluators: Not assigned yet

B- Statistical Information

No. of students attending the course: No. 31 % 100

No. of students completing the course: No. 31 % 100

Results:

Passed: No. 31 % 100 Failed: No. 0 % 0

Grading of successful students:

Excellent: No. 2 % 6 Very Good: No. 3 % 10

Good : No. 3 % 10 Pass: No. 23 % 74

C- Professional Information

1- Course Teaching

Topics actually taught	No. of hours	Lecturer
1 Introduction	3	Dr. Ashraf Elsisi
2 Fundamentals of Expert Systems • History of Expert Systems • Basic Concepts of Expert Systems • Structure of Expert Systems. • The Human Element in Expert Systems. • How Expert Systems Work. • Problem Areas Addressed by Expert Systems. • Benefits of Expert Systems • Problems and Limitations of Expert Systems • Types of Expert Systems.	12	Dr. Ashraf Elsisi
3 Knowledge Acquisition and Validation • Knowledge Engineering. • Scope of Knowledge. • Difficulties in Knowledge Acquisition. • Methods of Knowledge Acquisition • Interviews • Tracking Methods • Selecting an Appropriate Knowledge Acquisition Method • Validation and Verification of the Knowledge Base	18	Dr. Ashraf Elsisi
4 Knowledge Representation • Introduction. • Representation in Logic and Other Schemas. • Semantic Networks. • Production Rules. • Frames. • Multiple Knowledge Representation • Experimental Knowledge Representations. • Representing Uncertainty	12	Dr. Ashraf Elsisi
5 Inferences, Explanations and Uncertainty • Reasoning in Artificial Intelligence. • Forward and Backward Chaining. • The Inference Tree. • Inferencing with Frames. • Case-based Reasoning. • Explanation and Metaknowledge. • Inferencing with Uncertainty	12	Dr. Ashraf Elsisi
6 Building Expert Systems • Introduction • The Development Life Cycle. • Organizing the Development Team.	24	Dr. Ashraf Elsisi

• The Future of Expert Systems. • Case study		

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:	[√]
Case Study:	[√]

Other Assignments/Homework:

3- Student Assessment:

Method of Assessment	Percentage of total
Written examination	70
Oral examination	10
Practical/laboratory work	10
Other Assignments/class work	10
Total	100 %

Members of Examination Committee:
Dr. Ashraf Elsisi
Ms. Asmaa Haroon

Role of external evaluator:
External evaluator not assigned yet

4- Facilities and Teaching Materials:

Totally adequate	[ ]
Adequate to some extent	[√]
Inadequate	[ ]

5- Administrative Constraints

-Insufficient class rooms and halls
-Need extra hours for practical implementation

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

Needing for prerequisite course (Artificial Intelligent) — Talking with administration

7- Comments from external evaluator(s):

External evaluator not assigned yet. .

8- Course Enhancement:

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

This is the first year and no previous action Plan**.**

9- Action Plan for Academic Year 2006 – 2007

Actions Required	Completion Date	Person Responsible
Use CLIPS to develop expert system	2007	Ms. Asma Haroon

Course Coordinator: Dr. Ashraf Elsisi

Signature:

Date: