Menoufiya University
Faculty of Computers and Information
Department of Computer Science

جامعة المنوفية
كلية الحاسبات والمعلومات
قسم علوم الحاسب

Annual Course Report

(COMPILER DESIGN)

A- Basic Information

1- Title and Code Compiler Design / CS435

2- Programme(s) on which this course is given Computer Science

3- Academic year / Level of programme 4th year - 2nd 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   % 0.0

Grading of successful students:

Excellent: No. 4   % 13   Very Good: No. 7   % 23

Good :   No. 9   % 29   Pass: No. 11   % 35

C- Professional Information

1- Course Teaching

	Topics actually taught	No. of hours	Lecturer
1	**Introduction**	6	Dr. Ashraf Elsisi
2	**Lexical Analysis** • Formal Languages. • Implementation with Finite State Machines. • Lexical Tables	6	Dr. Ashraf Elsisi
3	**Syntax Analysis** • Grammars, Languages, and Pushdown Machines. • Ambiguities in Programming Languages. • The Parsing Problem.	12	Dr. Ashraf Elsisi
4	**Top Down Parsing** • Relations and Closure. • Simple Grammars. • Quasi-Simple Grammars. • LL(1) Grammars. • Parsing Arithmetic Expressions Top Down. • Syntax-Directed Translation. • Attributed Grammars. • An Attributed Translation Grammar for Expressions.	12	Dr. Ashraf Elsisi
5	**Bottom Up Parsing** • Shift Reduce Parsing. • LR Parsing With Tables	12	Dr. Ashraf Elsisi
6	**Code Generation** • Introduction to Code Generation. • Converting Atoms to Instruction. • Single Pass vs. Multiple Passes. • Register Allocation.	12	Dr. Ashraf Elsisi
7	**Optimization** • Introduction and View of Optimization. • Global Optimization. • Local Optimization.	12	Dr. Ashraf Elsisi
8	**Implementation Projects in Compiler Design**	12	Dr. Ashraf Elsisi

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
Written examination	70
Oral examination	10
Practical/laboratory work	10
Other Assignments/class work	10
Total	100 %

Members of Examination Committee:
Dr. Ashraf Elsisi
Mr. Ali Alsaid

Role of external evaluator:
External evaluator not assigned yet

4- Facilities and Teaching Materials:

Totally adequate	☐
Adequate to some extent	√
Inadequate	☐

5- Administrative Constraints

No administration constrains

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

Course is very long and difficult	Can't do any thing compiler has one course ,so we should covered all topics in this course

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**.**

Role of external evaluator:
External evaluator not assigned yet

9- Action Plan for Academic Year 2006 – 2007

Actions Required	Completion Date	Person Responsible
Encourage students to Use building tools for Compiler phases	2nd semester	Mr. Ali Alsaid

Course Coordinator: Dr. Ashraf Elsisi

Signature:

Date: