Benha University   Faculty of Science   Mathematics Department

Course Specification

Program(s) on which the course is given: Statistics

Major or Minor element of Programs: Major

Department offering the Program: Mathematics

Department offering the course: Mathematics

Academic year / Level: third year (Statistics) /First Semester

Date of Department approval: 2008

A- Basic Information

Title: Foundation of computing   Code: 331M
Credit Hours: Lecture: 2hrs/week
Tutorial: 2hrs/week   Practical: Total: 4hrs/week

B- Professional Information

1 – Overall Aims of Course: **At the end of this course the students able to:**

understand the introduction to computing and computer program 1 and computers for Human Empowerment

2 – Intended Learning Outcomes of Course (ILOs)

a-Knowledge and Understanding:
a1- Know about Introduction to computing
a2- Use Computers for Human Empowerment

b-Intellectual Skills
b1- Modify Information literacy
b2- Solve Problems
b3- Design Algorithm analysis and logical reasoning

c-Professional and Practical Skills
c1- Assess the ability of student to relate between topics.
c2- Correlate and analyze what was studied in the previous courses.
c3- Assess the capability of student for thinking.

d-General and Transferable Skills
d1- Solve problems
d2- Work in groups
d3- Analyze results

3- Contents

Topic	No. of hours	Lecture	Tutorial/Practical
Problem and solutions	8	4	4
Algorithms	8	4	4
Databases	8	4	4
Program inning limner	4	2	2
C++ & Pascal	12	6	6
Application C++	8	4	4

4– Teaching and Learning Methods

4.1- Talking
4.2- Test
4.3- Homework

5- Student Assessment Methods

5.1 Discussions to assess the student ability to think independently and express himself
5.2 Practices to assess the acquired skills
5.3 oral exam to assess the student ability to express himself
5.4 Essay to assess the student ability in using information and communication technology
5.5 Midterm exam to assess intellectual skills
5.6 End of term exam to assess knowledge with understanding

Assessment Schedule

Assessment 1: Discussions   Week 9
Assessment 2: Essay   Week 3
Assessment 3: Midterm   Week 7
Assessment 4: Final exam   Week 14

Weighting of Assessments

Mid-Term Examination   10%
Final-term Examination   80%
Oral Examination.   10%
Practical Examination   %
Semester Work   %
Other types of assessment   %
Total   100%

Any formative only assessments

6- List of References

6.1- Course Notes: Lecture materials

6.2- Essential Books (Text Books)
Computational Mathematics, B. P. Demidovich, I. A. Maron, Mir Publishers Moscow, 1987

6.3- Recommended Books
Computational Mathematics, B. P. Demidovich, I. A. Maron, Mir Publishers Moscow, 1987

6.4- Periodicals, Web Sites, etc
http://www.google.com

http://www. Sciencedirect.com
http://www.dbworld.com

7- Facilities Required for Teaching and Learning
Personal computer, data show, power point application, and experimental tool

devices

Course Coordinator:

Head of Department: Prof. Dr. Effat Abbas

Date: