**Course Specification**

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

Major or Minor element of program: 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: Programming I (Java) | Code: 332 M |
| 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:**

i) - Know the basics of typical java environment.
ii) Design programs by Java.
iii) Write some program by Java.

2 – Intended Learning Outcomes of Course (ILOs)

a- Knowledge and Understanding:

a1- Explain the ability of the student to design programs.
a2- Know some famous applet programs from the java 2 software development kit.
a3- Identify programs for some problems.

b- Intellectual Skills

b1- Apply basic principles to design better programs.
b2- Formulate discussions concerning assigned problems.
b3- Develop the mental ability for the student.

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

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## 3- Contents

| Topic | No. of hours | Lecture | Tutorial/Practical |
|---|---|---|---|
| Types of languages, java class libraries | 8 | 4 | 4 |
| Java extension packages, memory concepts | 8 | 4 | 4 |
| Java applets, some examples, viewing applets | 8 | 4 | 4 |
| Control structures, essentials of counter, controlling repetition | 8 | 4 | 4 |
| Program modules, methods, duration, scope rules, recursion | 16 | 8 | 8 |

## 4– Teaching and Learning Methods

4.1- Lecturing
4.2- Discussions
4.3- Exercises
4.4- 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. | 5% |
| Practical Examination | % |
| Semester Work | 5% |
| Other types of assessment | % |
| Total | 100% |

Any formative only assessments

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6- List of References

6.1- Course Notes: Lecture materials

6.2- Essential Books (Text Books)

Mathematical Programming, V. G. Karmanov, Mir Publishers Moscow, 1984

6.3- Recommended Books

Mathematical Programming, V. G. Karmanov, Mir Publishers Moscow, 1984

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:**

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