Course Specifications

Programme(s) on which the course is given all programmes

Major or Minor element of programmes Major

Department offering the programme Engineering Mathematic and physic

Department offering the course Engineering Mathematic and physic

Academic year / Level preparatory

Date of specification approval

A- Basic Information

Title: introduction to computer programming Code:MTH007

Credit Hours: Lecture: 2
Tutorial: Practical: 2 Total: 4

B- Professional Information

1 – Overall Aims of Course
1 - supply students with brief knowledge of the history of computer manufacture……
2- supply students with brief knowledge about different type of programming languages
3-make the graduate familiar with Algorithms and flowcharts
4-make the graduate familiar with programming with Pascal programming languages
5- make the graduate familiar with internet and its application programming languages

2 – Intended Learning Outcomes of Course (ILOs)

a- Knowledge and Understanding:
a1- Explain how to Internet definition and application

a2-Explain how to change any real world problem to programming problem
a3- Identify the input, process and output of any programming problem

b- Intellectual Skills

b1- Draw a flow chart…

b2- Collecting information from its relevant sources and use it in discussion………..

c- Professional and Practical Skills

c1- Design a program

d- General and Transferable Skills

d1- Access data and information from the internet related to the course subjects …

d2- Graduate should be able to cooperate with team…

d3- Deal with computer and internet

3- Contents

<table>
<thead>
<tr>
<th>Topic</th>
<th>No. of hours</th>
<th>Lecture</th>
<th>Tutorial/Practical</th>
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<tbody>
<tr>
<td>Introduction to computer and programming language</td>
<td>4</td>
<td>2</td>
<td>2</td>
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<tr>
<td>Number system</td>
<td>4</td>
<td>2</td>
<td>2</td>
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<tr>
<td>Flowcharts and algorithms</td>
<td>4</td>
<td>2</td>
<td>2</td>
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<tr>
<td>Pascal programming language</td>
<td>32</td>
<td>16</td>
<td>16</td>
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<tr>
<td>Internet definition and application</td>
<td>4</td>
<td>2</td>
<td>2</td>
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</table>

4- Teaching and Learning Methods
4.1 - blackboard and chalk

5- Student Assessment Methods

5.1 Mid-terms to assess (a1 to a3, b1 to b2 and c1).

5.2 Oral Examination to assess ((a1 to a3, b1 to b2 and c1 and d1 tod3).

5.3 Semester Work to assess ((a1 to a3, b1 to b2 and c1 and d1 tod3).

5.4 Final-term Exam to assess (a1 to a3, b1 to b2 and c1).

Assessment Schedule

Assessment 1 mid-terms exam week 8
Assessment 2 Oral Examination continuous.
Assessment 3 Semester Work continuous.
Assessment 4 Final-term exam week 15

Weighting of Assessments

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<th>Assessment</th>
<th>Weight (%)</th>
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<tr>
<td>Mid-Term Examination</td>
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<tr>
<td>Final-term Examination</td>
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<tr>
<td>Oral Examination</td>
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<td>Practical Examination</td>
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<tr>
<td>Semester Work</td>
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<tr>
<td>Other types of assessment</td>
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<tr>
<td>Total</td>
<td>100%</td>
</tr>
</tbody>
</table>

Any formative only assessments

6- List of References
6.1 - Course Notes

Note is made by the doctor

6.2 - Essential Books (Text Books)

N.A

6.3 - Recommended Books

N.A.

6.4 - Periodicals, Web Sites, etc

N.A

7 - Facilities Required for Teaching and Learning

Computer lab

Course Coordinator: Dr. Ali Abd El Hakeem said

Head of Department: Prof. Dr. Magdy Hanna

Date: / /