Course Specifications

University: Benha University  
Faculty: Benha Faculty of Engineering

Course specifications
Program(s) on which the course is given: Electrical Engineering technology Dep.  
Major or minor element of programs: Major  
Department offering the program: Electrical Engineering technology Dep.  
Department offering the course: Electrical Engineering technology Dep.  
Academic year / Level: 2nd year  
Date of specification approval: 2009

A- Basic Information

Title: Micro-computing  
Code: E 210  
Credit Hours: N.A.  
Lecture: 1  
Tutorial: -  
Practical: 3  
Total: 4

B- Professional Information

1 - Overall aims of course

Upon successful completion of this course, Students will become familiar with Introduction to structured programming, C++, Visual C++, Javascript and applications.

2- Intended learning outcomes of course (ILOs)

a. Knowledge and understanding:

On successful completion of the module the student should:

- Understand what is meant by programming.
- Be able to understand the C++, Visual C++ programming.
- Know what Management Javascript.
- Recognize and understand the applications.

b- Professional and practical skills

By the end of this course, the student should be able to:

- Be able to understand the C++, Visual C++ programming, Javascript and applications
c- General and transferable skills
By the end of this course, the student should be able to:
- Work cooperatively and effectively in a group
- Find information independently

3- Contents

<table>
<thead>
<tr>
<th>Topic</th>
<th>No. of Hours</th>
<th>Lecture</th>
<th>Tutorial/Practical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to structured</td>
<td>24</td>
<td>16</td>
<td>-/8</td>
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<tr>
<td>programming</td>
<td></td>
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<tr>
<td>C++</td>
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<td>-/20</td>
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<td>Visual C++</td>
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<td>12</td>
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<td>Javascript</td>
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<td>applications</td>
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<td>-/4</td>
</tr>
<tr>
<td>Total</td>
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<td>60</td>
<td>-/38</td>
</tr>
</tbody>
</table>

4- Teaching and learning methods
4.1- Lectures
4.2- Practice in Laboratories
4.3- Internet collected information and Self-study projects

5- Student assessment methods
5-1 Written exams (Final and Midterm), assignments and quizzes to assess knowledge and understanding, solving problems skills and interpretation capabilities of physical phenomena.
5-2 Oral exams to assess the abilities of discussing physical concepts
5-3 Practical exam to assess measuring and professional skills

Assessment schedule
Quiz 1  ......................Week No. 4
Midterm  ......................Week No. 8
Quiz 2  ......................Week No. 12
Oral and Practical exam...........Week No. 14
Final written exam .................Week No. 15
Weighting of assessments

- Final-term examination: 40%
- Semester work: 30%
- Oral Examination: 30%
- Total: 100%

6- List of references
- Essential books

7- Facilities required for teaching and learning
- Lecture rooms - Experimental Labs - computers

Course coordinator: Prof. Dr. Salah ghazy ramadan
Head of Department: Assoc. Prof. Ghada Amer
Date: