

## 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:	2 <sup>nd</sup> 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**

Topic	No. of Hours	Lecture	Tutorial/Practical
Introduction to structured programming	24	16	-/8
C++	36	16	-/20
Visual C++	18	12	-/6
Javascript	10	6	-/4
applications	10	6	-/4
Total	98	60	-/38

**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:**