



Shoubra Faculty of  
Engineering

## Model No.12 Course Specifications : Test(4)

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**University :** Benha university

**Faculty :** Shoubra Faculty of Engineering

**Department :** Electrical Engineering Department

### 1- Course Data

Course Code : ECE422C      Course Title : Test 4      Study Year : Fourth Year  
Specialization :              Electrical Engineering (Computer Engineering)  
Teaching Hours:  
    Lecture :                      Tutorial :                      Practical : 5

### 2- Course Aim

For students undertaking this course, the aims are to:

- 2.1- Gain a practical experience of using a web development tool.
- 2.2- Build and test a real life information system in an emerging system environment.

### 3- Intended Learning Outcomes of Course (ILOS)

#### a- Knowledge and Understanding

On completing this course, students will be able to:

- A1 - Know the basics of building information system and the web technology. (a2)
- A2 - Understand the different methodologies of web development. (a4, a5)
- A3- Define the quality assurance of web-based systems . (a6)

#### b- Intellectual Skills

At the end of this course, the students will be able to:

B1 - Think in a creative way in problem solving and design of database and webpages . (b3)

B2 - Select the appropriate web development tools suitable for building web-based applications. (b1, b8)

B3 – Manage the development process by planning, organizing, monitoring, and control activities. (b5, b10)

#### c- Professional Skills

On completing this course, the students are expected to be able to:

C1 - Design the system database, web services, and WebPages. (c1, c3)

C2 – Use the appropriate Web-development tools to create the system WebPages. (c6, c15)

C3 – Use of various testing methods to evaluate the developed pages. (c10)

#### d- General Skills

At the end of this course, the students will be able to:

D1 - Collaborate effectively within multidisciplinary team. (d1)

D2- Communicate effectively. (d3)

D3- Lead and motivate individuals. (d5)

D4- Effectively manage tasks, time, and resources. (d6)

#### 4- Course Contents

No.	Topics
1	Basics of Web Development
2	The Development Environment
3	PHP Language Concepts
4	Basics of Building WebPages
5	Basics of Creating and Connecting Databases
6	Building Dynamic WebPages
7	Creating Web Services
8	Critical Aspects of Building Web applications
9	Testing the system

#### 5- Teaching and Learning Methods

- 5.1- laboratory
- 5.2- Class activity
- 5.3- Assignments
- 5.4- Project

## 6- Teaching and Learning Methods of Disables

- 6.1- Assignments to assess knowledge and intellectual skills.
- 6.2- Mid-term exam to assess knowledge, intellectual, professional and general skills.
- 6.3- Project to assess intellectual and Professional skills.
- 6.4- Final exam to assess knowledge, intellectual, professional and general skills.

## 7- Student Assessment

### a- Student Assessment Methods

1	Assessment 1 home assignment
2	Assessment 3 Mid-term
3	Assessment 4 Oral Exam
4	Assessment 5 Final exam

### b- Assessment Schedule

No.	Assessment	Week
1	home assignment	2, 5, 9, 11
2	Mid-term	8
3	Oral Exam	14
4	Final exam	15

### c- Weighting of Assessments

Assessment	Weight
Mid_Term Examination	10 %
Final_Term Examination	60 %
Practical Examination	20 %
Semester work	10 %
Other types of assessment	0 %

Total	100 %
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## **8- List of References**

### **a- Course Notes**

- 1- Course notes
- 2- Course Slides

### **b- Books**

- 1- " PHP and MySQL Web Development (4th Edition) 4th Edition **by Luke Welling (Author), Laura Thomson.**

### **c- Recommended Books**

- 1- Learning PHP, MySQL & JavaScript: With jQuery, CSS & HTML5 (Learning Php, Mysql, Javascript, Css & Html5), Dec 14, 2014, by Robin Nixon.

- **Course Coordinator :** Ass. Prof / **Abdelwahab kamel Elsammak**
- **Head of Department :** Prof/ **Sayed Abo-Elsood Sayed Ward**







Shoubra Faculty of  
Engineering

## Model No.11A Course Specifications : Test 4

**University :** Benha university

**Faculty :** Shoubra Faculty of Engineering

**Department :** Electrical Engineering Department

### Matrix of Knowledge and Skills of the course

No.	Topics	week	Basic Knowledge	Intellectual Skills	Professional Skills	General Skills
1	Basics of Web Development	1	A1	B1	C1	D1, D2
2	The Development Environment	2	A2	B2	C2	D1, D2
3	PHP Language Concepts	3	A1,A2	B1,B2	C1, C2	D1, D2
4	PHP Language Concepts	4	A1,A2	B1,B2	C1, C2	D1, D2
5	Basics of Building WebPages	5	A1,A2	B1,B2	C1, C2	D1, D2
6	Basics of Building WebPages	6	A1,A2	B1,B2	C1, C2	D1, D2
7	Basics of Building WebPages	7	A1,A2	B1,B2	C1, C2	D1, D2
8	Midterm Exam	8				
9	Basics of Creating and Connecting Databases	9	A1,A2	B1,B2	C1, C2	D1, D2
10	Building Dynamic WebPages	10	A1,A2	B1,B2	C1, C2	D1, D2





## Matrix of course content and ILO's

<b>Course content</b>	<b>A1</b>	<b>A2</b>	<b>A3</b>	<b>B1</b>	<b>B2</b>	<b>B3</b>	<b>C1</b>	<b>C2</b>	<b>C3</b>	<b>D1</b>	<b>D2</b>	<b>D3</b>	<b>D4</b>
Basics of Web Development	✓				✓		✓			✓	✓		
The Development Environment		✓			✓			✓		✓	✓		
PHP Language Concepts	✓	✓		✓	✓		✓	✓		✓	✓		
Basics of Building WebPages	✓	✓		✓	✓		✓	✓		✓	✓		
Basics of Creating and Connecting Databases	✓	✓		✓	✓		✓	✓		✓	✓		
Building Dynamic WebPages	✓	✓		✓	✓		✓	✓		✓	✓		
Creating Web	✓	✓		✓	✓		✓	✓		✓	✓		

Services													
Critical Aspects of Building Web applications			✓			✓			✓			✓	✓
Testing the system			✓			✓			✓			✓	✓



- **Course Coordinator :** Ass. Prof. Abdelwahab kamel elsammak
- **Head of Department :** prof. Sayed A. Ward