



**University :** Benha university

**Faculty :** Faculty of Engineering at Shoubra

**Department :** Electrical Engineering Department

### 1- Course Data

Course Code : ECE124C

Course Title : Computer Applications 1

Study Year : First Year

Teaching Hours:

Lecture : 3

Tutorial : 4

Practical :

### 2- Course Aim

For students undertaking this course, the aims are to:

- 1- Present the evolution of the Web and its reliance on the development of the Internet.
- 2- Describe the basic concepts of the Web and its architecture and components.
- 3- Distinguish between the different Web applications.

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

#### a- Knowledge and Understanding

On completing this course, students will be able to:

- a.1) Define concepts and theories of the computer applications. (a-2)

#### b- Intellectual Skills

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

- b.1) Know the suitable methods for web applications.(b-2)
- b.2) Design the creative and innovative websites using HTML, CSS, and JavaScript.(b-4)
- b.3) Assess different ideas, views, and knowledge from HTML, CSS, and JavaScript. (b-5)
- b.4) Select appropriate HTML tags, CSS rules to design a variety of static webpages. (b-8)

#### c- Professional Skills

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

- c- 1 - Apply the studied tools to solve the web application problem.(c-1)
- c- 2 - Professionally merge the available tools to improve the design of websites.(c-2)
- c- 3 - Create a complete web application system.(c-3)

#### d- General Skills

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

- d- 1 –Work effectively in a team work.(d-1)
- d- 2 - Communicate effectively with the requirements of the website audience.(d-3)
- d- 3 - Demonstrate efficient IT capabilities.(d-4)



#### 4- Course Contents

No.	Topics	No. of hours
1	Basic Web aspects	3
2	Internet Concepts	6
3	Basic Web Applications	6
4	Web security	6
5	Societal Impact of the Web	3
6	HTML & CSS	9
7	JavaScript	6

#### 5- Teaching and Learning Methods

- 5.1- Modified lectures
- 5.2- Practical training / laboratory
- 5.3- Seminar / workshop
- 5.4- Class activity
- 5.5- Case study
- 5.6- Assignments / homework

#### 6- Teaching and Learning Methods of Disables

- 6.1- No Thing



## 7- Student Assessment

### a- Student Assessment Methods

1	Assignments to assess knowledge and intellectual skills.
2	Quiz to assess knowledge and intellectual skills.
3	Mid-term to assess knowledge, intellectual skills
4	Oral exam to assess knowledge, intellectual, professional and general skills.
5	Final exam to assess knowledge, intellectual skills.

### b- Assessment Schedule

No.	Assessment	Week
1	Assessment	2,5,9,11
2	Quizzes	4, 6, 10, 12
3	Mid-term exam	8
4	Oral Exam	14
5	Final exam	15

### c- Weighting of Assessments

Assessment	Weight
Midterm Examination	10 %
Final Term Examination	57 %
Oral Examination	17 %
Practical Examination	0 %
Semester work	08 %
Other types of assessment	08 %



Total	100 %
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## 8- List of References

### a- Course Notes

1- Course notes prepared by instructor.

### b- Books

1- LoenShklar and Richard Rosen, Web Applications Architecture: Principles, Protocols, and Practices, 1st edition, Wile, 2003

**Matrix of Knowledge and Skills of the course**

No.	Topics	week	Basic Knowledge	Intellectual Skills	Professional Skills	General Skills
1	Basic Web aspects	1	A1	B1	c1	
2	Internet Concepts	2	A1	b2, b3	c1	
3	Internet Concepts	3	A1	b2, b3	c1	
4	Basic Web Applications	4	A1	b2, b3	c2	
5	Basic Web Applications	5	A1	b2, b3	c2	
6	Web security	6	A1	b2, b3	c1, c2	
7	Web security	7	A1	b2, b3	c1, c2	
8	Midterm Exam	8	A1	b2, b3		
9	Societal Impact of the Web	9	A1	B1	c1, c2	
10	HTML & CSS	10	A1	B3, b4	c2, c3	
11	HTML & CSS	11	A1	B3, b4	c2, c3	
12	HTML & CSS	12	A1	B3, b4	c2, c3	
13	JavaScript	13	A1	B3, b4	c2, c3	
14	Oral Exam	14	A1	B1,b2,b3,b4	c1, c2,c3	d1, d2, d3
15	Final Exam	15	A1	B1,b2,b3,b4		

**Matrix of Course Content and ILO's**

Course content	A1	B1	B2	B3	B4	c1	c2	c3	d1	D2	D3
Basic Web aspects	✓		✓			✓					
Internet Concepts	✓		✓	✓		✓					
Basic Web Applications	✓		✓	✓			✓		✓	✓	✓
Web security	✓		✓	✓		✓	✓				
Societal Impact of the Web	✓	✓	✓			✓	✓		✓	✓	✓
HTML & CSS	✓			✓	✓		✓	✓			
JavaScript	✓			✓	✓		✓	✓			

**Matrix of Course Aims and ILO's**

Course Aims	A1	B1	B2	B3	B4	c1	c2	c3	d1	D2	D3
Present the evolution of the Web and its reliance on the development of the Internet.	✓		✓			✓					
describe the basic concepts of the Web and its architecture and components	✓		✓	✓		✓	✓		✓	✓	✓
Distinguish between the different Web applications	✓	✓	✓	✓	✓		✓	✓		✓	

**Course instructor:** Ass. Prof/ AbdulwahabKamel Mohamed Al\_Samak

**Head of department:** Prof. Dr.Sayed Abo-elseoud Ward