



**The University of Jordan**

**Accreditation & Quality Assurance Center**

**COURSE Syllabus**

1	Course title	Visual Programming
2	Course number	<b>807422</b>
3	Credit hours (theory, practical)	3 Credit Hours
	Contact hours (theory, practical)	3
4	Prerequisites/corequisites	-
5	Program title	Library and information science
6	Program code	70
7	Awarding institution	The University of Jordan
8	Faculty	Faculty of educational sciences
9	Department	Library and information science
10	Level of course	Undergraduate programme
11	Year of study and semester (s)	Fourth-Third year – Summer semester
12	Final Qualification	BA in Library and information science
13	Other department (s) involved in teaching the course	-
14	Language of Instruction	Arabic and English
15	Date of production/revision	December, 2015
16	Required/ Elective	Elective

**16. Course Coordinator:**

Dr. Faten Hamad  
Office phone number: 24579  
[f.hamad@ju.edu.jo](mailto:f.hamad@ju.edu.jo)

**17. Other instructors:**

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**18. Course Description:**

Introduction to Visual Basic and Visual Studio environment: Controls, components, wizard; Language constructs and structures: Variables, assignment, arithmetic, selection, repetition, arrays, functions; Advanced controls: Frames, Labels, Boxes and others.

**19. Course aims and outcomes:**

**A- Aims:**

The main goal of this course is to understand basic concepts of visual programming concepts, as well as the skills required to design and implement different applications using VB.

**B- Intended Learning Outcomes (ILOs):** Upon successful completion of this course students will be able to ...

1. Familiarize the student with Microsoft Visual Basic.
2. Understand memory concepts, operators and data types.
3. Understand basic problem solving techniques using control structures, procedures and arrays.
4. Understand the design principles of graphical user interface (GUI) and its components.
5. Employ analytical skills to solve problems.
6. Distinguish between different control structures.
7. Compare between functions and sub procedures.
8. Design a graphical user interface.

**20. Topic Outline and Schedule:**

Topic	Week
<b>Introduction TO VB</b>	1
<b>Data types and variables</b> PREDEFINED DATA TYPE CONSTANTS AND VARIABLES DECLARATION OF VARIABLES HOW TO ASSIGN VALUES TO VARIABLES HOW TO DECLARE CONSTANTS	2
<b>Expressions in VB</b> ARITHMETIC OPERATORS AND PRECEDENCE IN VISUAL BASIC LOGICAL EXPRESSIONS	3
<b>Message Boxes AND windows Form Control</b> HOW TO OUTPUT INFORMATION IN A MESSAGE BOX 1. MESSAGE BOX: 2. MAGBOX: <b>More controls and properties</b> PROPERTIES : VISIBLE , ENABLED , FONT FORM OPACITY PROPERTY PICTURE BOX CONTROL DISPLAYING DATE MONTH CALENDAR <b>TOOL TIP</b>	4-5

<b>Events</b> FORM LOAD EVENT CLICK EVENT MOUSE DOWN/ MOUSE UP KEY DOWN TEXT CHANGED TEXT VALIDATING	<u>6</u>
<b>More &amp; more Interesting controls !</b> CHECKBOX RADIO BUTTONS GROUPBOX MORE METHODS ON COMBO BOX & LIST BOX ADD RANGE OPEN FILE DIALOG COLOR DIALOG FONT DIALOG	7-8
<b>Looping</b> FOR – NEXT WHILE LOOP DO – LOOP -WHILE DO – LOOP –UNTIL FOR EACH EXIT – DO, EXIT – FOR	7-9
<b>FINAL EXAM</b>	

## 21. Teaching Methods and Assignments:

Development of ILOs is promoted through the following teaching and learning methods:

**Teaching (T) Strategies:** lectures, discussions and hands-on exercises. Students attend classes, ask questions and participate in discussions, do weekly in-class tasks and assignments to help them understand and practice the covered topics. All lectures are conducted in the lab.

## 22. Evaluation Methods and Course Requirements:

Opportunities to demonstrate achievement of the ILOs are provided through the following assessment methods and requirements:

- One mid-term exam
- Assignments
- Practical exam
- One final exam

**Assessment Weights:**

In class assignments and practical exercises	10%
Midterm Exam	30%
Practical Exam	10%
Final Exam	50%

### 23. Course Policies:

A- Attendance policies: Class attendance is mandatory. University regulations will be applied. Regular attendance is essential for satisfactory completion of this course.

B- Absences from exams and handing in assignments on time: Any student who misses any exam will receive a failing grade. Permission for makeup will be granted only if the student notifies the instructor in due time and presents evidence of an officially excused absence.

C- Health and safety procedures: -

D- Honesty policy regarding cheating, plagiarism, misbehavior: The honor code applies to all work turned in for this course including exams and assignments. It is important that you understand the solutions to all problems, and the best way to gain an understanding is to work them out and write them up by yourself. Hence the policy is that you must submit your own work. You may not share your work with other students, unless it is allowed as group. Violating the policy will be taken as a no submission state for the assignment. University regulations will be preserved at all times.

### 24. Required equipment:

Required software: Microsoft Visual Basic 6 or Microsoft Visual studio 2010

### 25. References:

A- Required book (s), assigned reading and audio-visuals:

Bill Sheldon and others, Professional Visual Basic 2010 and .NET 4, 1<sup>st</sup> edition, 2010, Wiley Publishing, Inc. ISBN: 978-0-470-50224-2

B- Recommended books, materials, and media:

1. Deitel, Visual Basic 2010 How to Program, 5<sup>th</sup> Edition, Prentice Hall, 2006. Code Example Download: <http://www.prenhall.com/deitel>
2. Tahani Salah Khatib, Visual Programming in VB.NET, 1<sup>st</sup> Edition, 2014.
3. [www.developer.com/net/vb](http://www.developer.com/net/vb)
4. [www.devx.com/dotnet](http://www.devx.com/dotnet)
5. [www.vbcity.com](http://www.vbcity.com)
6. [www.aewnet.com/root/dotnet/vbnet](http://www.aewnet.com/root/dotnet/vbnet)

### 26. Additional information:

Name of Course Coordinator: -----Signature: ----- Date: -----

Head of curriculum committee/Department: ----- Signature: -----

Head of Department: ----- Signature: -----

Head of curriculum committee/Faculty: ----- Signature: -----

Dean: ----- -Signature: -----

Copy to:

Head of Department  
Assistant Dean for Quality Assurance  
Course File