The Hashemite University

الجامعـــــة الهاشميـــــة

Deanship of Academic Development and International Outreach

عمادة التطوير الأكاديمي والتواصل الدولي

Visual programming (1910011214)

Second Semester 2021/2022

COURSE INFORMATION	
Course Name: Visual programming **Semester:** Second Semester 2021/2022 **Department:** Department of computer science and applications **Faculty:** Prince Al-Hussein Bin Abdullah II Faculty for Information Technology	**Course Code: 1910011214** **Section:** Mandatory **Core Curriculum**:
Day(s) and Time(s): Section 1: Sun, Tue, Thu 9:00-10:00 Section 2: Sun, Tue, Thu 10:00-11:00 Section 3: Sun, Tue, Thu 12:00-13:00 Section 3: Sun, Tue, Thu 14:00-15:00 **Classroom:** Section 1 : IT202, Section2: hb303	**Credit Hours:** 3 **Prerequisites**: 1910011110- Object programming 2

COURSE DESCRIPTION

Three Credit Hours. This course aims to introduce the students to the concepts of Visual/GUI design using structured and OO programming skills acquired in previous courses. Topics include Windows Forms and Controls, Event–Driven Programming. Decision statements, repetitions, and strings in visual programming. Also the students should learn topics about functions procedures and arrays as well as connecting the visual basic with data bases.

DELIVERY METHODS

The course will be delivered through face to face. These will include:

- PowerPoint lectures and active classroom based discussion
- Coding in the Hall on the computer
- E-learning resources: e-reading assignments and practice quizzes through Model and Microsoft Team

FACULTY INFORMATION

Name	**Muhsen Alkhalidy**

Academic Title:	**Instructor**
Office Location:	**IT 245**
Telephone Number:	
Email Address:	**muhsen@hu.edu.jo**
Office Hours:	**Sun, Tue, Thu** 11:00-12:00 *Please send an e-mail (muhsen@hu.edu.jo) to meet at any other time.*

REFERENCES AND LEARNING RESOURCES

Required Textbook:

- "Microsoft Visual Basic 2015 for windows Applications: Introductory (Shelly Cahsman Series

Suggested Additional Resources:

- An Introduction to programming using visual basic 2008, Sixth Edition. David I.Schneider.
- Visual Basic 2010: how to program / Microsoft Visual BASIC. Deitel, Paul J.

STUDENT LEARNING OUTCOMES MATRIX*

Core Curriculum Learning Outcomes	Program Learning Outcomes	Course Objectives	Course Student Learning Outcomes	Assessment Method
	CS SLOs SLO#1 Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to Identify solutions. SLO#2 Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the content of the programs discipline	• Students will understand the fundamental principles of visual programming. • Students will recognize issues related to building an application, add controls to forms, deal with textboxes, labels, buttons, list boxes,etc.	• [CLO1] Recognize the basics of visual basic programming including variables, constants, declarations, data types, expressions and event handling (2)	Exam

	SLO#6 Apply computer science theory and software development fundamentals to produce computing-based solutions	• Ability to use functions, procdures and arrays in visual programming as well as learning how to connect visual basic program with the database.	[CLO2] Use selection to implement VB windows applications [CLO3] Use Collections and repetition statements to implement VB windows applications [CLO4] Use strings and arrays to implement VB windows applications (2) [CLO5] Use procedures and functions in designing VB windows applications [CLO6] Use database and files in designing VB projects	Exam

ACADEMIC SUPPORT

It is The Hashemite University policy to provide educational opportunities that ensure fair, appropriate and reasonable accommodation to students who have disabilities that may affect their ability to participate in course activities or meet course requirements. Students with disabilities are encouraged to contact their Instructor to ensure that their individual needs are met. The University through its Special Need section will exert all efforts to accommodate for individual's needs.

Special Needs Section:
Tel:
Location:
Email:

COURSE REGULATIONS

Participation

Class participation and attendance are important elements of every student's learning experience at The Hashemite University, and the student is expected to attend all classes. A student should not miss more than 15% of the classes during a semester. *Those exceeding this limit of 15% will receive a failing grade regardless of their performance*. It is a student's responsibility to monitor the frequency of their own absences. **Attendance record begins on the first day of class irrespective of the period allotted to drop/add and late registration. It is a student's responsibility to sign-in; failure to do so will result in a non-attendance being recorded.**

In exceptional cases, the student, with the instructor's prior permission, could be exempted from attending a class provided that the number of such occasions does not exceed the limit allowed by the University. The instructor will determine the acceptability of an absence for being absent.

A student who misses more than 25% of classes and has a valid excuse for being absent will be allowed to withdraw from the course.

Plagiarism

Plagiarism is considered a serious academic offence and can result in your work losing marks or being failed. HU expects its students to adopt and abide by the highest standards of conduct in their interaction with their professors, peers, and the wider University community. As such, a student is expected not to engage in behaviours that compromise his/her own integrity as well as that of the Hashemite University.

Plagiarism includes the following examples and it applies to all student assignments or submitted work:

- **Use of the work, ideas, images or words of someone else without his/her permission or reference to them.**
- **Use of someone else's wording, name, phrase, sentence, paragraph or essay without using quotation marks.**
- **Misrepresentation of the sources that were used.**

The instructor has the right to fail the coursework or deduct marks where plagiarism is detected

Late or Missed Assignments

In all cases of assessment, students who fails to attend an exam, class project or deliver a presentation on the scheduled date without prior permission, and/or are unable to provide a medical note, will automatically receive a fail grade for this part of the assessment.

- Submitting a term paper on time is a key part of the assessment process. Students who fail to submit their work by the deadline specified will automatically receive a 10% penalty. Assignments handed in more than 24 hours late will receive a further 10% penalty. Each subsequent 24 hours will result in a further 10% penalty.
- In cases where a student misses an assessment on account of a medical reason or with prior permission; in line with University regulations an incomplete grade for the specific assessment will be awarded and an alternative assessment or extension can be arranged.

Student Complaints Policy

Students at The Hashemite University have the right to pursue complaints related to faculty, staff, and other students. The nature of the complaints may be either academic or non-academic. For more information about the policy and processes related to this policy, you may refer to the students' handbook.

COURSE ASSESSMENT

Course Calendar and Assessment

Students will be graded through the following means of assessment and their final grade will be calculated from the forms of assessment as listed below with their grade weighting taken into account. The criteria for grading are listed at the end of the syllabus

Assessment	Grade Weighting	Deadline Assessment
First Exam	25 %	
First Exam	25%	
Assignments and Quizzes	10%	
Final Exam	40%	

Description of Exams

Test questions will predominately come from material presented in the lectures. Semester exams will be conducted during the regularly scheduled lecture period. Exam will consist of a combination of multiple choice, short answer, or descriptive questions.

No make-up exams, homework or quizzes will be given. Only documented absences will be considered as per HU guidelines.

Grades are not negotiable and are awarded according to the following criteria*:

Letter Grade	Description	Grade Points
A+	Excellent	4.00
A		3.75
A-		3.50
B+	Very Good	3.25
B		3.00
B-		2.75
C+	Good	2.50
C		2.25
C-		2.00
D+	Pass	1.75
D	Pass	1.50
F	Fail	0.00
I	Incomplete	-

WEEKLY LECTURE SCHEDULE AND CONTENT DISTRIBUTION		
Topic	**Chapter in Text**	**Week #**
Introduction to visual programming	CH1,CH2,CH3	Week1, Week2

Working with Variables, Constants, Data Types and Expressions.	CH4	Week3,4 AND 5
Decision Making	CH5	Week6 AND Week7
Repetition and Multiple Forms and defining Extra Controls (list box, Combo box, List view)	CH6	Week8 AND Week9
Using Menus, Common Dialogs, Procedures, Functions and Arrays	CH7	Week10 ,Week 11 AND Week12
Accessing Databases with ADO.NET, connecting to Microsoft Access Database and applying SQL commands (Select, insert, delete, update) from the VB project , Handling Exceptions	CH10	Week13 AND Week14