



CSET 104-Visual Programming I
Second Semester 2009 (082)

2009 Catalog Description: (2 3 3) CSET 104: This course introduces basic topics in VB for Associate Degree Program in Computer Science & Technology Department. Students will learn to write Windows software using the various controls available in a graphical user interface, and how to best design programs using these controls. Upon completing, students will be able to create and manipulate forms using text and picture boxes, buttons, lists, scroll bars, and menu bars.

Prerequisites: **CSET 001, CSET 101.**

Textbook: Julia Bradley & Anita Millspaugh, Programming in Visual Basic .NET, McGrawHill. (TB)
Laboratory manuals: HBCC, CSET 104 manuals. (LM)
Notes: HBCC, CSET 104, handouts. (HO)
Coordinator: Dr. Lawan Ahmad Mohammad.
Instructor: Mr. Muhammad Faisal, Lecturer.

Goals: The goal of this course is to discuss introductory topics in Visual Basic. It will introduce the basic concepts of Object Oriented Programming. The students will design different general applications in labs and projects.

Topics:

1. Introduction to Visual Basic .NET (2 classes)
2. Working with Controls (4 classes)
3. Variables, Constants and Calculations (2 Classes)
4. Decisions and Conditions (4 classes)
5. Menus, Sub Procedures and Functions (4 classes)
6. Multiple Forms (2 classes)
7. Lists and Printing (2 classes)
8. Arrays (4 classes)
9. Data Files and Database (4 classes)
10. Major Exams (2 classes)

Weekly schedule: attached.

Assessment Policy:

Practical
Homework
Quizzes
First lab exam
Second lab exam
First Major exam
Second Major exam
Projects
Final examination

Weighting:

10%
5%
10%
5%
10%
10%
15%
10%
25%
100%

Letter Grading Scale:

0% < 60% F
60 % < 65% D
65% < 70% D+
70% < 75% C
75% < 80% C+
80% < 85% B
85% < 90% B+
90% < 95% A
95% to 100% A+

Some clustering and adjustment of threshold values may be applied depending on final results statistics of discreet groups.

HBCC Rules and Regulations:

1. **Student IDs:** students should have/carry their IDs with them all the time while at the college premises.
2. **Attendance:** students are expected to attend all meeting of their courses. In the case of any absence, students are responsible for course content during their absence.
3. **Absenteeism:** a record is consistently compiled and updated. If the student has been absent too many times without a valid excuse, he will be excluded from the college.
4. **Smoke free college:** smoking is prohibited in all college facilities.
5. **Behavior:** students who engage in behavior that disrupts the learning environment for others may be subjected to disciplinary action under the KFUPM code.
6. **Exam cheating:** it is not permitted to speak during the exam. Failure to abide by this rule will result in their exam marks being cancelled.

Prepared by: MR. MUHAMMAD FAISAL

Signature: _____

Date: _____

Approved by: Dr. Hamza Maghraby

Signature: _____

Date: _____

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Week no.	Contents	Chapters	Practical / support activities	Assessment
1	<u>Introduction to Visual Basic</u> Writing Windows Applications with VB Programming Languages- Procedural, Object Oriented and Event Driven	CH #1	NO LAB	
2	<u>Working with Controls</u> Exploring the Visual Basic Toolbox Exploring the Visual Basic Toolbox (contd...)	CH #2	Introduction Introducing VB Environment	HW # 1
3	Coding Controls Solving Problems	CH #2	Experiment 2 Using VB Controls	HW # 2 Class-Quiz # 1
4	<u>Variables, Constants and Calculations</u> Variables and Constants. Calculations, Arithmetic Operations	CH #3	Experiment 3 Using VB Controls	HW # 3
5	<u>Decisions and Conditions</u> If Statements Conditions, Nested If statements	CH #4	Experiment 4 Using Variables and Constants	HW # 4 Class-Quiz # 2
6	Conditional and Logical Operators, Select Case. Loops	CH #7	Experiment 5 Decisions and Conditions	Class-Quiz # 3
Major Exam I				
7	<u>Menus and Procedures</u> Menus Common Dialog Boxes	CH #5	Experiment 6 Menus	HW # 5 Class-Quiz # 4
8	Writing General Procedures Writing Functions	CH #5	Midterm Lab Exam	HW # 6
9	<u>Multiple Forms</u> Multiple Forms Standard Code Modules	CH #6	Experiment 7 Sub Procedures and Functions	Class-Quiz # 5

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10	<u>Lists and Printing</u> List Box and Combo Boxes Printing	CH #7	Experiment 8 Multiple Forms	
11	<u>Arrays</u> Control Arrays Single Dimension Arrays	CH #8	Experiment 9 Lists Box and Combo Boxes	
Major Exam II				
12	User Defined Data Types Multidimensional Arrays	CH #8	Experiment 10 Arrays	Class-Quiz # 6
13	<u>Data Files</u> Basics of Data Files	CH #11	Experiment 11 Data Files	
14	<u>Database</u> Accessing Database	CH #10	Experiment 12 Accessing Database	
15	Revision		Final Lab Exam	
16	Final exam (comprehensive)			

EXAMINATION SUMMARY

Examination	Major I	Major II	Midterm Lab Exam	Final Lab Exam	Final Exam.
Week No.	6	11	8	15	16