



## CSET 203-Visual Programming II Second Semester 2009 (082)

**Catalog Description: (2 4 4)** CSET 203: This course introduces advanced topics in VB & VB.NET and provides basics of object-oriented programming for Associate Degree Program in Computer Science & Technology Department. Students will program VB & VB.NET applications while learning menu layout, data files, accessing database files and front-end design, drag & drop concepts, graphics.

Prerequisites: CSET 104, CSET 122.

**Textbook:** Programming in Visual Basic .NET by JC Bradley, A.C Millspaugh, McGraw-Hill/Irwin, 5<sup>th</sup> Edition.  
**Laboratory manuals:** HBCC, Object Oriented Programming, CSET 203 manuals. (LM)  
**Notes:** HBCC, Object Oriented Programming, handouts. (HO)  
**Coordinator:** Dr. Lawan Ahmad Mohammad.  
**Instructor:** Mr. Kashif Munir

**Goals:** The goal of this course is to discuss advanced topics in Visual Basic & Visual Basic.NET. It will introduce the basic concepts of Object Oriented Programming. The students will design database applications in labs and projects. They will also learn VB.NET Crystal Report Designing.

### Topics:

1. Introduction to Object Oriented Programming (3 classes)
2. Introduction to VB.NET (2 classes)
3. VB.NET Programming (6 classes)
4. Accessing Database Files (8 Classes)
5. Report Designing (3 classes)
6. Data Files (3 classes)
7. Graphics & Advanced Topics (3 classes)
8. Major Exams (2 classes)

**Weekly schedule:** Attached.

### Assessment Policy:

Practical  
Homework  
Class Quizzes  
Lab exam I.  
Lab exam II  
First Major exam.  
Second Major exam.  
Project.  
Final examination

### Weighting:

5%  
5%  
10 %  
5%  
5%  
15%  
15%  
10%  
30%  
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 discrete groups.

### HBCC Rules and Regulations:

1. **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.
2. **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.
3. **Smoke free college:** smoking is prohibited in all college facilities.
4. **Behavior:** students who engage in behavior that disrupts the learning environment for others may be subjected to disciplinary action under the KFUPM code.
5. **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.
- 6.

Prepared By: MR. KASHIF MUNIR

Signature \_\_\_\_\_

Date: 28/02/2009

Approved by: DR. HAMZA MAGHRABI

Signature \_\_\_\_\_

Date: \_\_\_\_\_

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<b>Week no.</b>	<b>Contents</b>	<b>Handout no.</b>	<b>Practical / support activities</b>	<b>Assessment</b>
1	<b><u>Introduction to Object Oriented Programming:</u></b> VB + OOP  Classes	HO #1	NO LAB	
2	Collections, Using Collections  <b><u>Introduction to VB.NET</u></b>  Introducing VB.NET IDE	HO #2	<b>Experiment 1</b>  Creating and Using Classes	
3	Compiling & Debugging  <b><u>VB.NET Programming</u></b> Review of Data Types, Variables	HO #3	<b>Experiment 2</b> Using VB.NET	HW # 1/ Class-Quiz # 1
4	Windows Forms  Using Controls	HO #4	<b>Experiment 3</b> VB.NET Programming I	
5	Procedures & Functions  Menu building, Dialog Boxes	HO #5	<b>Experiment 4</b> VB.NET Programming II	HW # 2
6	Advanced Controls in VB.NET  <b><u>Accessing Database Files</u></b> Visual Basic.NET and Database Files	HO #6	<b>Experiment 5</b> Creating Database Applications.	
<b>Major Exam I</b>				
7	ADO.NET Architecture & Features  Simple Database Applications using ADO.NET		<b>Experiment 6</b> Creating Database Applications I	
8	Binding Controls to Database I  Binding Controls to Database II	HO #7	<b>Lab Exam I</b>	HW # 3
9	Handling Database in Code I  Handling Database in Code II	HO #8	<b>Experiment 7</b>  Creating Database Applications II	Class-Quiz # 2

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10	Handling Database in Code III  <b>Report Designing</b> Using Crystal Reports		<b>Experiment 8</b> Creating Database Applications III	HW # 4
11	Crystal Reports with VB Applications  Database and Crystal Reports Connection	HO #9	<b>Experiment 9</b> Using Crystal Reports	
12	<b>Data Files</b> Introduction to File IO  File Classes		<b>Experiment 10</b> Using Crystal Reports and Database Design	HW # 5
<b>Major Exam II</b>				
13	Reading and Writing Classes  <b>Graphics &amp; Advanced Topics</b>  Graphics Environment	HO #10	<b>Experiment 11</b> Data Files & Graphics and Animation	Class-Quiz # 3
14	Graphics Methods and Graphics Techniques.  Animations	HO #11	<b>Lab Exam II</b>	
15	Revision		NO LAB	
16	<b>Final Exam (3 hours comprehensive)</b>			

Examination Summary:

First major exam will be conducted in week 6.

Second major exam will be conducted in week 12.

Lab exams will be conducted in week 7 and 14.

Lab Project must be submitted in beginning of 15<sup>th</sup> week.

**Laboratory Software:** VB.NET, MS Access or SQL Server