Lakeside View MGlobal Vision CEGEP JOHN ABBOTT COLLEGE

(420-PS4-AB) Developing ASP .NET Web Applications with ADO .NET Course Framework

Certificate Program in Internet Programming & Development (A.E.C. LEA.BN)
Full-Time Day Training Program

Parameters			
Course Number	420-PS4-AB		
Course Title (Long)	Developing ASP .NET Web Applications with ADO .NET		
Course Title (Short)	ASP .NET		
Course Weighting	Daily: 2.5 hours lecture + 2.5 hours laboratory + homework		
Timetable & classroom	June 5, 2018 – June 26, 2018		
	Monday to Friday 8.30 - 2.30 in BH-210		
Number of Credits (Units)	2.66		
Number of Hours of Instruction	75		
Competencies Fully Met	DC66 – Create an ASP .NET Web application that delivers dynamic		
	content to a Web site		
Prerequisite course	(420-PM3-AB) .NET Programming Fundamentals		
Semester	Summer 2018		
Teacher			
Name	Aref Mourtada		
E-mail	Prefer by MIO; aref.mourtada@johnabbott.qc.ca		
Office Hours	Appointments can be made outside of the course hours when the need		
	arises.		

Course Description

This course will teach the fundamentals of Web application site implementation by using Microsoft ASP.NET and Microsoft C# .NET. Using the Microsoft Visual Studio® .NET environment and the Microsoft .NET platform, the goal is to create an ASP.NET Web application that delivers dynamic content to a Web site. This course introduces students ASP.NET Web forms and to the ASP.NET Model-View-Controller (MVC) web development framework. MVC is a powerful, patterns-based way to build dynamic websites that enables a clean separation of concerns and that gives you full control over markup for enjoyable, agile development. ASP.NET MVC includes many features that enable fast, Test Driven Development-friendly development for creating sophisticated applications that use the latest web standards. This course will cover many web development related concepts such as databases, servers, configuration files, LINQ, ADO.NET Entity Framework, page validation and hosting. These concepts will be understood and applied to develop several ASP.NET MVC Web applications.

Course Placement within the Program

This course is given in the final semester of the program.

Course Objectives

Upon successful completion of this course, the student will be able to understand:

- ASP .NET components, web forms and MVC
- Succeed in creating an ASP .NET website on their own
- Contribute professionally to an ASP .NET web development project

Course Learning Activities

1. Lectures/Demonstrations: Important material from the text and outside sources will be covered in class. You should plan to take careful notes as not all material can be found in the texts or readings. Discussion is encouraged as is student-procured, outside material relevant to topics being covered.

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- 2. Assignments: Concepts Reviews, Skills Reviews, Independent Challenges and other projects and readings will be periodically assigned to help support and supplement material found in the lessons. These assignments may require the application of various software applications.
- 3. Tests: Occasional scheduled or unscheduled tests will be given to help ensure you stay up with assigned material.
- 4. Final exam: The final exam will be closed book/note and will test assigned readings and material discussed in class.
- 5. Team Term Project: The term project focuses on methodologies and tools for this course related technologies using frameworks. This project is structured to be as realistic as possible given the time available in the term.
- 6. Classroom Activity: Participation and Discussion

Instructional Methodology

The course is a combination of theory, classroom labs and case work. The students will be assigned cases and asked to analyze and discuss them.

Students will

- Work alone
- Work in groups

This course requires your individual presence and your active, consistent and sustained participation in your individual work. Your individual responsibilities are to complete the work assigned and ready to work at the start of each class.



Evaluation Policy

This course will be marked of 100 points based on Assignments, Tests, Term Project, and Final Exam. To obtain the passing grade in this subject, a student must achieve a grade of 60% or better on the overall course

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Evaluation	Points	
Assignments:	signments: 20 (up to 5 milestones worth 4% each)	
Tests:	Tests: 20 (1 worth 20% or 2 tests worth 10% each)	
Term Project:	20 (5% of the grade on Final Project will go towards the	
	evaluation of aspects of English proficiency)	
Final Exam:	40	

Textbook and References:

Texts and Other Materials: Course syllabus; text and workbook, reference handouts; assignment handouts; printed course manual; access to the Internet and World Wide Web.

Attendance Policy

Attendance is mandatory to student's success in this course. Attendance will be taken at each session (see IPESA Section 5.2 – Page 19). Unexcused absences should not account for more than 20% of the total course time. If a student misses 20% or more of the total course hours due to unexcused absences, the instructor may prohibit further attendance and assign the grade earned to-date in the course as the final grade.

Academic Policy - Cheating and Plagiarism

Cheating and/or plagiarism are offences which will not be tolerated by the College. Such offences occur when a student violates the procedures governing the administration of examinations, tests or other means of evaluating student achievement in a subject or program. Instructors may assign a grade of zero for any assignment, test, or examination that involves cheating or plagiarism. John Abbott College's policy on Cheating and plagiarism will be strictly enforced (see IPESA Section 5.5).



Con	Competencies CODE: DC66				
OBJECTIVE		STANDARD			
Statement of the Competency		Achievement Context			
Create an ASP .NET Web application that delivers dynamic content to a Web site.		 In a classroom and computer laboratory environments – using: Using a workstation and the appropriate software Based on situations representative of the workplace and requiring the development of applications involving a limited number of classes Using all the documentation available on the applications to be developed In written assignment(s) and/or in-class exam(s) In simulation exercises Working alone and in groups Based on industry standards 			
Elements of the Competency		Performance Criteria			
1.	Describe the key features of the Microsoft .NET Framework and ASP.NET	 Explain the advantages of using the .NET Framework. Describe the key functionality and purpose of ASP.NET in developing Web applications. List resources for Web application development with Visual Studio. 			
2.	Explain how to create a Web application by using Visual Studio	2.1 Describe how to create a component by using C#.2.2 Overview of the Microsoft .NET-Based Languages.			
3.	Describe how to create a Microsoft ASP.NET Web Form that contains server controls and uses a master page	 3.1 Learn how to create Web Forms. 3.2 ASP.net essentials. 3.3 Explain how to add server controls to a Web Form by using the Microsoft Visual Studio toolbox. 			
4.	Describe how to create ASP.NET Model-View-Controllers (MVC) Web applications with common layout.	4.1 Understand the MVC framework4.2 Learn how to create Controllers, Views and Models.			
5.	Explain how to add functionality to server controls that are on an ASP.NET Web form and MVC.	 5.1 Implement code-behind pages in a Web application. 5.2 Create event procedures for Web server controls. 5.3 Handle Page events in a Web application. 5.4 Form input validation 5.5 Authentication & authorization 			
6.	Explain how to access data by using Microsoft ADO.NET and the built-in data access tools available in Visual Studio.	 6.1 Describe the key features of ADO.NET. 6.2 Explain how to create a connection to a database by using ADO.NET. 6.3 Understand how to access data from a SQL Server database 			

