I)	Jadara University Faculty of Science and Information Technology Department of Computer Networks Syllabus 2020 - 2021			Ferently of	Schara & Information Technology	
Course Title Pharmacy Computer		Credit Hours 3	<i>Course No.</i> 891117	Prerequisite	Year (semester) 2020 - 2021	Lec./Lab. Credit Lecture: 3
Programming					1 ^{first} Semester	Room : online

Lecturer	Room No.	E-mail	Office Hours
T. Mohammad Al-issa	D216	Mohammadal-issa@jadara.edu.jo	11:00—12:00 [Su,Tu]

Course Description:

This is an advanced course in web application development. Students design and develop web-based applications using web forms and MVC technologies. Multi-tier "full stack" applications will be developed using Microsoft SQL Server databases, client-side scripting using JavaScript and server-side scripting for business logic using server-based components written in C#. User interfaces will be created using HTML5/CSS3 using responsive design techniques (Bootstrap). Students will design and develop their own original web applications using these technologies..

Course Objectives:

- Understand the difference between desktop and dynamic web applications.
- Understand the ASP.NET web application execution model.
- Create and modify multi-page Web Form applications that involve and demonstrate features such as flow control, the use of style sheets, state management, data access, data binding, security, and data verification and validation.
- Understand web application configuration and demonstrate the ability to manage basic configuration issues.
- Define and describe what a web service is and how web services are used.
- Create and modify simple web services.
- Create desktop and web applications that consume simple web services.

Course Learning Outcomes :

- Create HTML5/CSS3 user interfaces that are responsive on different platforms (PC, tablet and mobile) to industry standards.
- Describe the difference between client-side and server-side scripting in web applications to current industry standards
- Create an interactive web application using active server pages to maintain state using cookies, application and session to current industry standards.
- Create a multi-tier web application using Active Data Objects (ADO.NET) database technology with SQL Server, active server pages and Visual Studio server components to current industry standards.
- Develop and test responsive Model View Controller (MVC) web applications using HTML5, CSS3 and the ADO.NET Entity Framework as the database model.
- May use Microsoft Azure to host databases.
- Add security to existing web applications using ASP.NET identity technologies.





	Course Content
Week	Торіс
1,2,3	JavaScript, HTML/CSS
	Client-side user input validation
	Client vs server-side scripting
	HTTP protocol and web hosting
	Introduction to ASP.NET using web forms
	Build the Feedback and Feedback Answer forms of the classroom demo web application
4,5,6	Using server-side controls on ASP.NET web forms
	 Code-behind pages
	Build the Login form using Server validation controls
	Using master pages
	Incorporate master page into the classroom demo web application
7,8,9	Maintaining state using application and session objects
	Incorporate session and application state into the classroom demo
	 Using HTTP Request Server Variables collection
	Maintaining state using cookies
	Incorporate cookies into the classroom demo application
	Completion and demonstration (video presentation) of Phase One of the original web
	application by each student incorporating all of the technologies in weeks 1 - 4
10,11	Completion and demonstration (video presentation) of Phase two of the original web
	application by each student incorporating all of the technologies in weeks 1 - 6
	Model View Controller - Models
	 Discuss the theory behind model view controller web development
	 Create an MVC model using the Microsoft Data Entity Framework code-first
	model in the classroom demo application
12,13	MVC - Controllers and Views
	• Create MVC controllers
	 Create HTML5/ MVC views
	• Complete a sample application using database model, controllers and views to
	do CRUD (create, read, update and delete) operations on the data.
	Design an original e-commerce MVC web application using the Data Entity Framework
14	Test and debug the original e-commerce MVC web application project
	Demonstrate the application.
	Demonstrate the final MVC project in a video presentation
10	

Grade Distribution :

Assessment		Date
- First Exam	20%	After 4 weeks
- Second Exam	20%	After 11 weeks
- Assignments (Reports /Quizzes/ Seminar / Tutorials)		During the sem
- Final Examination		After 14 weeks

• No Makeup exams are given under any condition. On time attendance of classes is required.





Reading List:

Text Book	The textbook for the course is <i>ASP.NET 4.5 Web Programming with C# 2012</i> by Mary Delamater and Anne Boehm, published by Murach, 2013
Other References	InterNet

Note : https://rtc.instructure.com/courses/1375635/assignments/syllabus

Last updated on 17/10/2020 by: Mr. Mohammad Al-issa