

نموذج رقم (١٢)

جامعة: دمياط
كلية: الحاسبات والمعلومات
قسم: تكنولوجيا المعلومات

توصيف مقرر دراسي فصل أول

١- بيانات المقرر :		
المستوي: الثالث	اسم المقرر: تكنولوجيا الانترنت	الرمز الكودي: ٢٨١ تمع
(٢) عملي/تمارين	عدد الساعات المعتمدة: (٣) نظري: (٢) تمارين/عملي: (٢)	التخصص: تكنولوجيا المعلومات

<p>By the end of this course the student be able to:</p> <ol style="list-style-type: none"> 1- Understand and apply the principles and practices of internet technologies. 2- Identify the different types of internet protocols. 3- Understand good internet systems and services design. 4- Provide education and training of Internet Backbone Networks. 5- Understand web services. 6- Demonstrate Internet and Intranet systems. 7- Explain Cloud Computing. 8- Understand Security and System Administration. 	<p>2- Course Objectives أهداف المقرر</p>
<p>3- Intended Learning Outcomes of Course (ILOs) المخرجات التعليمية المستهدفة من المقرر</p>	
<p>By the end of this course the student be able to:</p> <ol style="list-style-type: none"> a.1 Describe the main concepts, definitions of Internet systems. a.2 Define internet technologies. a.3 Recognize client/server applications. a.4 List internet protocols. a.5 Recognize all possible web services. 	<p>a. Knowledge and Understanding المعرفة/ الفهم</p>
<p>By the end of this course the student be able to:</p> <ol style="list-style-type: none"> b.1 Manipulate and apply appropriate theories, principles and concepts relevant to internet technologies. b.2 Compare and evaluate between different web services. b.3 Apply appropriate internet protocols. b.4 Explain and apply the knowledge of design of internet systems. b.5 Assess different solutions for cloud computing. 	<p>b. Intellectual /Cognitive Skills القدرة الذهنية</p>
<p>By the end of this course the student be able to:</p> <ol style="list-style-type: none"> c.1 Design, configure/construct, test and evaluate different internet protocols c.2 Identify benefits and drawbacks of existing internet systems. c.3 Apply different web technologies. c.4 Use programming techniques for understand web designing. c.5 Present specialized research reports for internet technology. 	<p>c. Professional and Practical Skills مهارات مهنية و عملية</p>
<p>By the end of this course the student be able to:</p> <ol style="list-style-type: none"> d.1 Demonstrate ability to work as a team member. d.2 Solve problems relevant to web design using ideas and techniques some of which are at the forefront of the discipline. 	<p>d. General and transferable skills المهارات العامة والقبالة للنقل</p>

- d.3 Learn Critical thinking.
d.4 Acquire and use communications and research skills.
d.5 Learn within a setting of self-learning through discussion.

Part I: Theoretical

م	المحتويات	الأسبوع	نظري	تمرين	عملي	المجموع
1	Internet Protocols, Application layer protocols.	1	2	0	0	2
2	Transport layer protocols, Internet layer protocols.	2	2	0	0	2
3	History and Development of Internets and Intranets, Internet Domain and Domain Name System.	3	2	0	0	2
4	Internet Backbone Networks, Protocols and client/server applications, N-Tiered Client/Server Architecture.	4	2	0	0	2
5	Multi-protocol Support. Universal Internet Browsing,	5	2	0	0	2
6	Web Servers and Web Access. WWW Technology, Helper applications	6	2	0	0	2
7	Browser as a rendering engine, Designing of Internet System Network Architecture.	7	2	0	0	2
8	Midterm Exam.	8				
9	Server Concepts, Proxy Arrays, Server Setup and Configuration Guidelines.	9	2	0	0	2
10	Security and System Administration Issues.	10	2	0	0	2
11	Internet and internet applications, Multimedia and Digital Video/Audio Broadcasting	11	2	0	0	2
12	Unified Messaging Systems, Fundamental of ecommerce.	12	2	0	0	2
13	Datacenters and Data warehousing, packet clearing house.	13	2	0	0	2
14	Concept of Grid and Cloud Computing.	14	2	0	0	2

Part II: Practical

م	المحتويات	أسبوع	نظري	تمرين	عملي	مجموع
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4- Course Contents
محتويات المقرر

1	2	0	0	1	An introduction to web programming with ASP.NET Core MVC. Tools for working with ASP.NET Core MVC apps.	1	
1	2	0	0	2	How an ASP.NET Core MVC app works. How to develop a single-page MVC web app.	2	
1	2	0	0	3	How to create a Core MVC web app. How to run a web app and fix errors.	3	
1	2	0	0	4	How to work with a model, How to organize the files for a view. How to validate user input.	4	
1	2	0	0	5	How to make a web app responsive with Bootstrap, An introduction to responsive web design, How to get started with Bootstrap.	5	
1	2	0	0	6	More skills for Bootstrap CSS classes, More skills for Bootstrap components, How to work with navigation bars.	6	
1	2	0	0	7	How to develop a data-driven MVC web app, An introduction to the Movie List app, How to use EF Core, How to work with data.	7	
				8	Midterm Exam,	8	
1	2	0	0	9	The Movie List app, How to work with related data, How to make user-friendly URLs.	9	
1	2	0	0	10	How to manually test and debug an ASP.NET Core web app, How to test an ASP.NET Core web app, How to use the debugger.	10	
1	2	0	0	11	How to work with controllers and routing, How to create custom routes, How to use attribute routing.	11	
1	2	0	0	12	Best practices for creating URLs, How to work with areas.	12	
1	2	0	0	13	How to work with Razor views, How to use Razor syntax, Essential skills for Razor views.	13	
1	2	0	0	14	More skills for Razor views, How to work with a model, How to work with Razor layouts, The Guitar Shop website.	14	
1. Lectures: 2 Hours per week (2H/W) 2. Practical: 2 Hours per week (2H/W) 3. Discussion							٥-أساليب التعليم والتعلم :
لقاءات خاصة خلال الساعات المكتبية.							٦-أساليب التعليم والتعلم للطلاب ذوي القدرات المحدودة :
							٧-تقويم الطلاب :
		Types		Assessment			أ. الأساليب المستخدمة:
		Midterm exam		a1, a2, a3, b1, b2, c1, c2, c3, d1, d2.			
		Practical exam		a3, a4, b2, b4, c1, c2, c3, c4, c5, d4.			
		Oral Exam		a1, a2, b2,b3, c1,c2,d1			
		Final written exam		a1, a2, a3, a4, a5, b1,b2,b3,b4,b5, c2,d2			

Assessment 1	Midterm exam	Week 8	ب. التوقيت :
Assessment 2	Practical exam	Week 15	
Assessment 3	Oral exam	Week 16	
Assessment 4	Final written exam	Week 16	
Midterm examination:		20 %	ج. توزيع الدرجات:
Practical/laboratory examination:		20 %	
Oral examination		10%	
Final term examination:		50 %	
Total:		100 %	
٨- قائمة الكتب الدراسية والمراجع:			
Lecture notes prepared by academic staff members in the department.			أ. منكرات
1- Internetworking With TCP/IP , Principles, Protocols, and Architecture, DoUGLAS E. COMER, Fourth Edition, 2000. 2- CompTIA, Network+, Study Guide, Fourth Edition, John Wiley & Sons, Inc., Indianapolis, Indiana, 2018. 3- murach's ASP.NET CORE MVC, Mary Delamater, Joel Murach, Juliette Baylon Production, 2020			ب. كتب ملزمة
1- Web Services: Principles and Technology, Papazoglou M. Prentice Hall 2014, ISBN-10:0321155556. 2- Internet & World Wide Web How to Program, 5/e, Deitel M.H. and Deitel P.J., Pearson Inc. 2015, ISBN: 0-13-1752421. 3- TCP/IP sockets in C, Practical Guide for Programmers, Donahoo J.M. and Calvert K.L, Morgan Kauffman, 2010, ISBN: 1-55860-826-5. 4- Programming the World Wide Web, Sebesta W.R. Addison Wesley 2011 ISBN-10:0321489691. 5- Core Web Programming Hall M. and Brown L. Prentice Hall, 2014, ISBN: 0-13-089793-0.			كتب مقترحة
1- https://www.collegenote.net/courses/CSIT/38/internet-technology/syllabus/#gsc.tab=0 2- https://www.tutorialspoint.com/internet_technologies/index.htm 3- https://www.wisdomjobs.com/e-university/internet-technologies-tutorial-2508.html 4- https://www.halvorsen.blog/documents/programming/web/asp_net.php 5- https://www.w3schools.com/asp/webpages_intro.asp			ج. دوريات علمية أو نشرات... الخ

أستاذ المقرر

د/ أحمد محمد ربيع سيد