

Course Specifications

Course Title:	Internet Technologies
Course Code:	515CCS-3
Program:	BSc in Computer Science
Department:	Computer Science
College:	Computer Science and Information System
Institution:	Najran University











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A. Course Identification

1. Credit hours: 5			
2. Course type			
a. University College Department $\sqrt{}$ Others			
b. Required $\sqrt{}$ Elective			
3. Level/year at which this course is offered: Level 9 / Year 5			
4. Pre-requisites for this course (if any): N/A			
5. Co-requisites for this course (if any): N/A			

6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	50	100%
2	Blended		
3	E-learning		
4	Distance learning		
5	Other		

7. Contact Hours (based on academic semester)

No	Activity	Contact Hours
1	Lecture	20
2	Laboratory/Studio	20
3	Tutorial	10
4	Others (specify)	0
	Total	50

B. Course Objectives and Learning Outcomes

1. Course Description

Study the history and fundamentals of the internet, Common web applications, types of web pages, web publishing and to learn about Internet protocols (HTTP, TCP/IP and FTP), Client/Server Architecture and the MVC approach in Website design. Programming with HTML, XHTML, cascading style sheets (CSS), and JavaScript, client and server side scripting, develop dynamic web application with PHP or ASP and MySQL. Finally, evaluating web sites and applications and learning about web privacy and various security issues

2. Course Main Objective

Use a variety of strategies and tools to create websites. Create standards-based websites that are accessible and usable by a full spectrum of users. Gain skills and training for an entry-level position in the field of Web Design. Learn to develop and maintain Web sites for a corporation or our own small business.

3. Course Learning Outcomes

CLOs	Aligned PLOs
1 Knowledge and Understanding	

	CLOs	Aligned PLOs
1.1	Understand fundamentals of internet, common web applications, their types, web security and privacy issues and social and commercial issues of web apps.	K1, K2
1.2	Recognize browsing tools, web development tools and web publishing.	K1, K3
1.3		K1
1		
2	Skills:	
2.1	Explain Internet protocols (HTTP, TCP/IP and FTP) and File/server, database server and 3-tier Client/Server Architecture.	S2, S5
2.2	Design a web page using MVC and other design approaches.	S2, S4
2.3	Develop dynamic web application with PHP or ASP and MySQL and programming with HTML, XHTML, cascading style sheets (CSS), and JavaScript, client and server-side Scripting language.	S1, S3
2.4	Evaluate a web site related reliability, availability, and security	
2		
3	Values:	
3.1		
3.2		
3.3		
3		

C. Course Content

No	No List of Topics	
1	The Overview and fundamentals of the internet technologies, web applications and web related issues	4
2	Web publishing	5
3	Internet protocols (HTTP, TCP/IP and FTP)	3
4	Client/Server Architecture	5
5	5 File server and Data base server Architecture	
6	6 MVC Design approach and 3-tier Architecture	
7 Web design with CSS, HTML, XHTML and java script basics		9
8 Web programming with PHP or ASP		9
9	9 Linking web to DB with MySQL	
10	Web evaluation, security and privacy issues	
Total		50

D. Teaching and Assessment

1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.0	Knowledge and Understanding		
1.1	Understand fundamentals of internet, common web applications, their types, web security and privacy issues and	Interactive Lectures, Group Discussions	Participation, Presentation, Midterm Exams, Quiz, Final Exam

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
	social and commercial issues of web apps.		
1.2	Recognize browsing tools, web development tools and web publishing.	Interactive Lectures, Group Discussions	Participation, Presentation, Midterm Exams, Final Exam
		a	
2.0		Skills	
2.1	Explain Internet protocols (HTTP, TCP/IP and FTP) and File/server, database server and 3-tier Client/Server Architecture.	Interactive Lectures, Group Discussions	Participation Assignments, Presentation, Midterm Exams, Final Exam
2.2	Design a web page using MVC and other design approaches.	Interactive Lectures, Group Discussions	Participation, Presentation, Assignments, Midterm Exams, Final Exam,
2.3	Develop dynamic web application with PHP or ASP and MySQL and programming with HTML, XHTML, cascading style sheets (CSS), and JavaScript, client and server side Scripting language.	Lab Demonstrations, Mini Project, Group Discussions	Participation, Presentation, Assignments, Midterm Exams, Lab Exam, Final Exam
2.4	Evaluate a web site.	Interactive Lectures, Group Discussions	Participation, Presentation, Assignments, Midterm Exams, Final Exam
3.0	Values		
3.1			
3.2			

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Participation	Every week	5%
2	Quiz	3 rd week	5%
3	Assignments or mini project (presentation)	2 nd ,4 th ,7 th week	20%
4	Midterm Exam	6	20%
5	Lab Exam	11	10%
6	Final Exam	12 or 13	40%
7			

^{*}Assessment task (i.e., written test, oral test, oral presentation, group project, essay, etc.)

E. Student Academic Counseling and Support

Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice:

- Weekly office hours
- Pre-booked Appointments

- Additional office hours prior exams
- Weekly academic advising hours

F. Learning Resources and Facilities

1.Learning Resources

1.Learning Resources		
Required Textbooks	• Douglas E.Comer, Computer Networks and Internets with Internet Applications, Publisher: Prentice Hall, 5th Edition.	
Essential References Materials	 Deitel & Deitel, Internet & World Wide Web: How to Program, Prentice Hall, 5th Edition. Robert W. Sebesta, Programming the World Wide Web, Addison-Wesley, Latest Edition. Hugh E. Williams and David Lane, Web Database Applications with PHP, and MySQL, O'Reilly & Associates. David Powers, PHP Solutions: Dynamic Web Design Made Easy 	
Electronic Materials	http://www.w3schools.com/	
Other Learning Materials		

2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	E-learning
Technology Resources (AV, data show, Smart Board, software, etc.)	Data Show, PCs
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Online course survey	Students	Indirect
Course learning outcomes achievement survey	Students	Indirect
Achievement of course learning outcomes	instructor	Direct

Evaluation areas (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)

Evaluators (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify)

Assessment Methods (Direct, Indirect)

H. Specification Approval Data

Council / Committee	Computer Science Departmental Council
Reference No.	14440203-0185-00002
Date	1st Sep, 2022