

Course Specifications

Course Title:	Internet and Web Applications Development	
Course Code:	314CIS-4	
Program:	Bachelor's degree in information systems	
Department:	ent: Department of Information Systems	
College: College of Computer Science and Information Systems		
Institution:	Najran University	







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A. Course Identification

1. Credit hours: 4 (3, 1, 0) [Theory, Lab, Tutorial]		
2. Course type		
a. University College Department $$ Others		
b. Required $$ Elective		
3. Level/year at which this course is offered: Level 10/year 4		
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	60	100%
2	Blended		
3	E-learning		
4	Distance learning		
5	Other		

7. Contact Hours (based on academic semester)

No	Activity	Contact Hours
1	Lecture	30
2	Laboratory/Studio	20
3	Tutorial	10
4	Others (specify)	
	Total	60

B. Course Objectives and Learning Outcomes

1. Course Description

This course explores advanced and modern concepts and technologies used in the development of electronic business applications. Topics include component development and reuse, distributed object technologies, multitier applications, client-side versus server-side technologies, service-oriented architectures, enterprise application integration, data transformation, role of open-source technologies, and finally e-business application installation and deployment issues.

2. Course Main Objective

The students should be able to understand the concepts of internet technologies and develop real-time applications.

3. Course Learning Outcomes

	CLOs	Aligned PLOs
1	Knowledge and Understanding	
1.1	Identify the technologies in the development of internet application in the modern world.	K1
1.2		
1.3		
1		
2	Skills :	
2.1	Evaluate the several web technologies and application architectures.	S1, S2, S3
2.2	Design a web page using HTML and other design approaches.	S2
2.3	Apply the modern web development tools to design the interactive web applications.	S1, S2
2.4	Develop the real Internet Applications using the latest application architectures.	S1, S2, S3
2.5	Evaluate a website related to reliability, availability, and security.	S1, S2, S3
3	Values:	
3.1	Develop leadership, teamwork, self-learning in the implementation of the of the business solution works.	V1, V2
3.2		
3.3		
3		

C. Course Content

No	List of Topics	Contact Hours
1	Explores advanced and modern concepts and technologies used in the development of internet applications.	10
2	Application development platform and Architecture, Distributed object technologies	6
3	Client-side programming such as HTML, CSS, JavaScript	10
4	Client-side versus server-side technologies	6
5	Server-side database management	6
6	Web Server	4
7	Enterprise application integration	4
8	Data transformation and open-source technologies	4
9	E-business application installation and deployment issues.	4
10	Web evaluation, security, and privacy issues	6
	Total	60

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		

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.1	Identify the technologies in the development of internet application in the modern world.	Interactive Lectures, Group Discussions	Participation, Midterm Exams, Quiz, Final Exam
1.2			
•••			
2.0		Skills	
2.1	Evaluate the several web technologies and application architectures.	Interactive Lectures, Group Discussions	Participation, Midterm Exams, Quiz, Final Exam
2.2	Design a web page using HTML and other design approaches.	Interactive Lectures, Group Discussions, Lab Demonstrations, Mini Project	Participation, Midterm Exams, Quiz, Assignments, Lab Exam, Final Exam
2.3	Apply the modern web development tools to design the interactive web applications.	Interactive Lectures, Group Discussions, Lab Demonstrations, Mini Project	Participation, Midterm Exams, Quiz, Assignments, Lab Exam, Final Exam
2.4	Develop the real Internet Applications using the latest application architectures.	Interactive Lectures, Group Discussions, Lab Demonstrations, Mini Project	Participation, Midterm Exams, Quiz, Assignments, Lab Exam, Final Exam
2.5	Evaluate a website related to reliability, availability, and security.	Interactive Lectures, Group Discussions	Participation, Midterm Exams, Quiz, Final Exam
3.0	Values		
3.1	Develop leadership, teamwork, self- learning in the implementation of the of the business solution works.	Assignments, Group Discussions	Assignments, rubric
3.2			

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Quizzes	TBA	5%
2	Midterm Exam	7 th week	20%
3	Participation	TBA	5%
4	Assignments	10 th week	10%
5	Final Lab Exam	11 th week	10%
6	Final Exam	12 th week	40%

*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:

During the whole semester, 10 hours/week are reserved for students to guide them, to help them and to explain the topic which is not clear to them during the lecture.

F. Learning Resources and Facilities

1.Learning Resources

Required Textbooks	John Dean, Web Programming with HTML5, CSS, and JavaScript, Jones & Bartlett Learning	
Essential References Materials	H. M. Deitel, P. J. Deitel, Internet & World Wide Web How to Program, Prentice Hall.Hugh E. Williams and David Lane, Web Database Applications with PHP, and MySQL, O'Reilly & Associates.	
Electronic Materials	http://www.w3schools.com/	
Other Learning Materials		

2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	Lecture Rooms and a whiteboard.
Technology Resources (AV, data show, Smart Board, software, etc.)	Desktop/ Laptop computer Multimedia Projector
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	A File cabinet to keep Class Stuff, Markers, papers and students Files, and a printer to print program screenshots.

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Effectiveness of teaching and assessment	Student	Indirect Survey
Extent of achievement of course learning outcome	Faculty	Direct using CLO Assessment sheet
Quality of learning resources	Student	Indirect Survey
Extent of achievement of course learning outcomes	Faculty	Indirect Survey

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	Department Council
Reference No.	14440729-0182-00018

Date	1444/08/01