Course Specifications

Kingdom of Saudi Arabia

The National Commission for Academic Accreditation & Assessment

Computing Department, Community College Dammam
University of Dammam

Course Specifications
(CS)

Web-Based Design

IT210

Web-Based Design

Course Specifications

Institution: University of Dammam	**Date of Report**
College/Department: Dammam-Community College / Computer Science Department	

A. Course Identification and General Information

1.   Course title and code: Web-Based Design (IT210)
2.   Credit hours: 3 (2 Theoretical + 2 Practical)
3.   Program(s) in which the course is offered. (If general elective available in many programs indicate this rather than list programs) Computer Science and Information systems tracks
4.   Name of faculty member responsible for the course
5.   Level/year at which this course is offered: 4th Level / Year 2
6.   Pre-requisites for this course (if any): CS220
7.   Co-requisites for this course (if any):
8.   Location if not on main campus

9.   Mode of Instruction (mark all that apply)

a. Traditional classroom	√	What percentage?	70%
b. Blended (traditional and online)		What percentage?	
c. e-learning	√	What percentage?	30%
d. Correspondence		What percentage?	
f. Other		What percentage?	

Comments:

B. Objectives

1. What is the main purpose for this course?
Upon successful completion of this course, the student will be able to:
    1. Develop and apply powerful tools to retrieve information from the Internet,
    2. Understand modern text indexing methods,
    3. Design e-commerce sites
    4. Focus on latest development tools.

2. Briefly describe any plans for developing and improving the course that are being implemented. (e.g. increased use of IT or web based reference material, changes in content as a result of new research in the field)

C. Course Description (Note: General description in the form to be used for the Bulletin or handbook should be attached)

This course aims to equip students with the necessary knowledge to design and implement Intranet applications. It emphasizes on the specific technologies of these applications and how to employ them in building effective and efficient applications. It also aims to familiarize the students with technical characteristics of the Internet protocols. It covers also the various structures of Internet-based application development and the organization And security of business transactions conducted over intranets.

1. Topics to be Covered

List of Topics	No. of Weeks	Contact Hours
1. Overview of web based application, setup and configuration of web server, setup and configuration of eclipse and MySQL,	3	6T + 6P
2. Introduction to latest web programming languages.	3	6T + 6P
3. Web Performance: Packaging and Deployment, Internationalization and localization.	3	6T + 6P
4. Security and protection of web applications	3	6T + 6P
5. Web applications with databases	3	6T + 6P

2. Course components (total contact hours and credits per semester):

	Lecture	Tutorial	Laboratory	Practical	Other:	Total
Contact Hours	30			30		60
Credit	30			15		45

3. Additional private study/learning hours expected for students per week.   3
4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Methods
1.0	**Knowledge**		
1.1	Demonstrate an understanding of the relationship of various web technologies.	Lectures, Class discussions, Demonstrations	Machine Problem, Laboratory Exam
1.2	Familiarize with W3C standards and recommendations.		
2.0	**Cognitive Skills**		
2.1	Use both client-side and server-side technologies to implement web pages and websites.	Lectures, Class discussions, Demonstrations	- Machine Problem, Laboratory Exam, Project
2.2	Demonstrate best practices on the use of Dreamweaver for designing a website.		
3.0	**Interpersonal Skills & Responsibility**		
3.1	Analyze and evaluate user requirements for any website design.	Lectures, Class discussions, Demonstrations	Machine Problem, Laboratory Exams, Project
3.2	Compare and contrast compiled and interpreted languages.		
4.0	**Communication, Information Technology, Numerical**		
4.1	Communicate and present information effectively.	Lectures, Class discussions	Student Presentation, Laboratory Exam, Machine Problem, Project
4.2	Demonstrate ability to work in-group laboratory activities.		
5.0	**Psychomotor**		
5.1	N/A	N/A	N/A

5.Course Learning Outcomes Mapping Matrix

Identify on the table below the Course Outcomes and Relationship to PLOs

Course Learning Outcomes	Program Learning Outcomes
1. Knowledge	
1.1	**1.1**
1.2	**1.2**
2. Cognitive skills	
2.1	**2.3**
2.2	**2.1 , 2.2**
3. Interpersonal Skills and responsibility	
3.1	**3.1, 3.2**
3.2	**3.3**
4. Communication IT and Numeral Skills	
4.1	**4.2, 4.3**
4.2	**4.1**
5. Psychomotor Skills	
5.1	**N/A**

6. Schedule of Assessment Tasks for Students During the Semester			
	Assessment task (e.g. essay, test, group project, examination, speech, oral presentation, etc.)	**Week Due**	**Proportion of Total Assessment**
1	First quiz/assignments	3	%2.5
2	Mid-term	8	%20
3	Second quiz/ assignments	10	%2.5
4	Project	12	%10
5	Lab	13	%20
6	Attendance/Participation	All weeks	%5
7	Final	17	%40

D. Student Academic Counseling and Support

1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week)

- Each group of students is assigned to a member of staff who will be available for help and academic guidance office hours at specific 2 hours on daily basis.

E. Learning Resources

1. List Required Textbooks
• Paul Deitel, " Internet & World Wide Web: How to Program", 4th Edition, 2007.

2. List Essential References Materials (Journals, Reports, etc.)
• Internet & World Wide Web: How to Program", 4/E by Deitel, 4th Edition, 2009, Pearson Education

3. List Recommended Textbooks and Reference Material (Journals, Reports, etc)

4. List Electronic Materials (eg. Web Sites, Social Media, Blackboard, etc.)
• Blackboard and Social Media

5. Other learning material such as computer-based programs/CD, professional standards or regulations and software.
• CDs accompanied with the text book, power point lectures and essential references

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access etc.)
1 Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.) Classrooms: • Furnished with a large central table or multiple small tables that can be grouped into one central table • Designed for up to 25 students • Size the room allowing 1sq meter per seat Laboratories: 25 PC's (one for each students)
2. Computing resources (AV, data show, Smart Board, software, etc.) • Smart Board, projector, internet, and whiteboard.
3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list) • No

G. Course Evaluation and Improvement Processes

1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching: • Student questionnaires to be assessed by independent body. • Assessment of course teaching strategies by independent body.
2 Other Strategies for Evaluation of Teaching by the Program/Department Instructor: • Student questionnaires to be assessed by department.
3 Processes for Improvement of Teaching: • Attending workshop, reading books, and the searching for e-resources. • Revision of course contents, course specifications, and strategies every 5 years.
4 Processes for Verifying Standards of Student Achievement (e.g. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution) • Check marking by an independent member of staff of a sample of student work. • Periodic exchange and remarking of a sample of assignments with a member of staff in another institution
5 Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement. • Reviewing student's feedback. • Update text books. • Consulting other top universities course specifications and contents.