2023
TP-153

Course Specification
(Bachelor)

Course Title:	Advanced Web Design
Course Code:	CIT1303
Program:	Bachelor in Information Technology
Department:	Department of Information Technology
College:	Computers and Information Technology
Institution:	University of Tabuk
Version:	1.0
Last Revision Date:	27 July 2022

Table of Contents

A. General information about the course:

1. Course Identification

1. Credit hours:					
3 CHrs. (Three Credit Hours)					
2. Course type					
A.	☐ University	☐ College	☒ Department	☐ Track	☐ Others
B.	☒ Required		☐ Elective		
3. Level/year at which this course is offered: (Level 5, Year 3)					
4. Course general Description:					
This course is intended to enhance students' proficiency with multiple Internet technologies. This course introduces server-side internet technologies, with an emphasis on designing interactive web pages with PHP. At the conclusion of the course, students will apply their knowledge to the design of server-side interactive websites that are functional and compatible with a variety of devices.					
5. Pre-requirements for this course (if any)**:**					
Web Design (CIT1251)					
6. Co-requisites for this course (if any)**:**					
7. Course Main Objective(s):					
1- Understanding the web servers features. 2- Utilize the Common Gateway Interface (CGI), PHP, Perl and JVS. 3- Utilize Php and MySQL to create web pages.					

2. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	60 H(30 Lectures, 30 Labs)	100%
2	E-learning		
3	Hybrid ● Traditional classroom ● E-learning		

No	Mode of Instruction	Contact Hours	Percentage
4	Distance learning		

3. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	**Lectures**	30
2.	**Laboratory/Studio**	30
3.	**Field**	
4.	**Tutorial**	
5.	**Others (specify)**	
Total		60

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Code of PLOs aligned with program	Teaching Strategies	Assessment Methods
1.0	**Knowledge and understanding**			
1.1	List the requirements of the web servers development	K3	- **Lectures** - **Assignments** - **Code activities** - **Discussion** - **Textbook & Reference**	- **Midterm** - **Final Exams.** - **Projects.** - **Assignments**
1.2	Outline the components of client-server design.	K2		
1.3	Write a readable PHP, MySQL code.	K3		
2.0	**Skills**			
2.1	Write clear, correct, and concise PHP, SQL code	S2		
2.2	Estimate the understanding of general concepts of the CGI programming and	S2	- **Code activities**	

Code	Course Learning Outcomes	Code of PLOs aligned with program	Teaching Strategies	Assessment Methods
	Client-server applications		- **Individual Exercises** - **Discussions** - **Textbook and References**	- **Midterm** - **Final Exams.** - **Projects.** - **Assignments**
2.3	Explain the modern software development Tools of Client-Server Application.	S4		
2.4	Illustrate the software components of websites and the web elements	S4		
2.5	Analyze the requirements of the web development using client-server techniques.	S2, S4		
3.0	**Values, autonomy, and responsibility**			
3.1	Demonstrate the effectiveness of teamwork vs individual one	V2	**-Lab activities** **-Group Exercises** **-Discussions**	- **Projects.**
3.2	Evaluate different programming codes for a specific problem.	V2		

C. Course Content

No	List of Topics	Contact Hours
1.	Reminder on Internet Protocols, HTML and CSS Lab work: lab exercise for the above topics	4
2.	Web Servers, Web Applications, Understanding Browsers Servers and Databases Lab work: lab exercise for the above topics	4
3.	PHP (intro - installation – syntax- comments - variables - echo- data type) Lab work: lab exercise for implementation of the above topics	4
4.	PHP (Strings - numbers- maths - constant - operators) Lab work: lab exercise for implementation of the above topics	**4**
5.	PHP (if statement- switch - Loop_Functions - arrays - supperglobals) Lab work: lab exercise for implementation of the above topics	4

6.	PHP (forms- php advanced) Lab work: lab exercise for implementation of the above topics	4
7.	PHP oop (until php constant) Lab work: lab exercise for implementation of the above topics	4
8.	My SQL database (create db, create tables , create rows, main operations on db (ex. CRUD: Create, Read,Update,Delete) Lab work: lab exercise for implementation of the above topics	4
9.	CMS Content management system Part 1: introduction to content management system + Bootstraps templates Lab work: lab exercise for implementation of the above topics	4
10.	CMS Content management system Part 2: creating and dealing with Categories + posts Lab work: lab exercise for implementation of the above topics	4
11.	CMS Content management system Part 3: creating and dealing with Comments and users Lab work: lab exercise for implementation of the above topics	4
12.	CMS Content management system Part 4: creating and dealing with login page and profile page Lab work: lab exercise for implementation of the above topics	4
13.	CMS Content management system Part 5: creating and dealing with dashboard. Lab work: lab exercise for implementation of the above topics.	4
14.	Deploying a Dynamic Site to a Remote Server Lab work: lab exercise for the above topic.	4
15.	Managing Server-Side Data Lab work: lab exercise for the above topic.	4
Total		**60**

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Assignments	2,3,7,10	15%
2.	Midterm Exam.	6,11	20%
3.	Projects (One individual + One in a group)	8,14	25%
4.	Final Exam	17	40%

*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.).

E. Learning Resources and Facilities

1. References and Learning Resources

Essential References	**PHP & MySQL: Server-side Web Development by Jon Duckett, ISBN-13: 978-1119149224 , 2022**
Supportive References	**Murach's PHP and MySQL (4th Edition) by Joel Murach and Ray Harris. ISBN-13: 978-1943873005, 2022**
Electronic Materials	https://htmlandcssbook.com/ https://phpandmysql.com/
Other Learning Materials	https://www.w3schools.com/

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Lecture room of each section to accommodate 25 students
Technology equipment (projector, smart board, software)	Projectors, data show, white board, etc. Computer for each student in the Lab
Other equipment (depending on the nature of the specialty)	**Software :VScode or any similar tool**

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of Teaching	Faculty, Program Leaders, and Advisory Board	Both Direct and Indirect
	Students	Indirect
Effectiveness of Students Assessment	Faculty, Program Leaders, Advisory Board, and Independent Opinion	Both Direct and Indirect
Quality of Learning Resources	Faculty, Students, and Advisory Board	Indirect
The Extent to which CLOs have been Achieved	Faculty, Program Leaders, Advisory Board, and Independent Opinion	Direct (as in section B) and Indirect/Surveys
	Students	Indirect
Other	-	-

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

Assessment Methods (Direct, Indirect)

G. Specification Approval

COUNCIL /COMMITTEE	
REFERENCE NO.	

DATE	