Institute of Business & Information Technology
University of the Punjab
Quaid-e-Azam Campus, Lahore

Spring Term 2020

Basic Information:

Title:	Internet Programming	**Code**	IT 363
Program:	BBIT IT Major	**Credit Hours:**	Three (03)
Sessions:	30 Classes + Mid Term + Final Term	**Pre-Requisite:**	

Course Description:

On completion of this course students should be enough competent that they can build distributed applications of any kind of task. Will be enabling for understanding the architecture of enterprise applications and also can understand the difference between application server and simple web server. Can build their own web server using sockets mechanism in java.

Learning Outcomes:

After the completion of this course, it is expected that students who will involve themselves in the knowledge base working of the course will be capable to

1. *Be familiar with web application development software tools and environments currently available in market.*
2. *Be able to understand the concepts, principles and methods of internet programming.*
3. *Can build any kind of distributed application.*
4. *Can implement MVC model using servlet.*
5. *Be able to understand the technologies, business models and societal issues of semantic web.*

Teaching Learning Methodology:

The formal teaching component of this course consists of active student participation in and contribution to all forms of teaching and learning i.e. lectures, discussions, research assignments and projects. Lectures will be twice a week of 90 min each.

Group Configurations:

One of the objectives of this course is to encourage and facilitate teamwork. Class will have to make a group of four for projects and research assignments. It is recommended that student will form their own groups. As a general guideline, your group should have members with diverse skill sets including people who are proficient or have aptitude for different subject areas.

Weekly Term Plan

Wk	Lecture Topic
01	*Introduction to Internet, WWW*
02	*Introduction to Internet Programming*
03	*An Overview About HTML (Basic Tags)*
04	*Introduction to Cascading Style Sheet (CSS)*
05	*Introduction to JavaScript*
06	*Introduction to PHP*
07	*Introduction to Database and Connectivity*
08	*Mid Term Examination*
09	*Review of Object-Oriented Programming*
10	*Website Hosting*
11	*Data Description and Transformation*
12	*Case Study on Code Management Tool*
13	*Secure Web Application*
14	*Latest Technologies and Tools*
15	*Presentations*
16	*Final Term Examination*

Topics in Detail

Introduction to Internet, WWW
Introduction to subject, Introduction to world wide web
History of languages and developers

Introduction to Internet Programming
Internet protocols, http, ftp,url, web browsers etc
Client and server environment

An overview about HTML (Basic Tags)
Creating html pages
Html structure, Tables, Listing, Div, Span etc
Frames, Tables, Links etc

Introduction to Cascading Style Sheet (CSS)
Selectors and CSS background properties

Introduction to Javascript
Introduction to javascript
How javascript works with HTML elements
Javascript for client and server side

Introduction to PHP
Introduction to PHP, Use of Get, Post and request method
Developing Dynamic web pages
Array and loops, Use of associative array and foreach loop in pHP

Introduction to Database and connectivity
Introduction to database
SQL basic queries for, insert, delete and update database
Database connectivity using PHP/MS Access, Database connectivity with web pages

Review of Object-Oriented Programming
Exception handling, JDBC
Reading and writing data on stream

Website hosting
Domain and hosting, IIS server HELM and C Panel

Data Description and Transformation
XML
XSL
DOM

Secure web application
Web security protocols

Latest Technologies and Tools

Text &Recommended Readings	**Assignment Specification**
1. Learning PHP,MySQL, Javascript, CSS and HTML	1. *Microsoft Word for Documentation*
2. Head First PHP and MySQL	*Headings Arial 11pt Bold*
3. PHP and MySQL Web Development	*Normal Text Times New Roman 10pt*
	Header Footer Times New Roman 8pt
	Paragraph Single Line Spacing
	First Line Indent 1.0 cm
	Page Margins 2 cm from each side

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Grading Policy:

Final Grade for this course will be the cumulated result of the following term work with relevant participation according to the quoted percentage.

Sessional	25%		MidTerm	35%		Final Term	40%
Assignments	10 %		Mid Term Exam	25%		Final Exam	30%
Quizzes	10%		Major Report/Work	10%		Case Study/Project/	10%
Presentations	05%					Term Paper	

Remember subdivision of Mid Term and Final Term Examination should be done only in extreme cases of very essential and major Grading Instruments.

Dishonest Practices & Plagiarism

Any student found responsible for dishonest practice/cheating (e.g. copying the work of others, use of unauthorized material in Grading Instruments) in relation to any piece of Grading Instrument will face penalties like deduction of marks, grade 'F' in the course, or in extreme cases, suspension and rustication from IBIT.
For details consult Plagiarism Policy of PU at http://pu.edu.pk/dpcc/downloads/Plagiarism-Policy.pdf

Grading System:

Letter Grade	Grade Point	Num Equivalence
A	4.00	85 – 100 %
A-	3.70	80 – 84 %
B+	3.30	75 – 79%
B	3.00	70 – 74 %
B-	2.70	65 – 69 %
C+	2.30	61 – 64 %
C	2.00	58 – 60 %
C-	1.70	55 – 57 %
D	1.00	50 – 54 %
F	0.00	Below 50 %
I	Incomplete	*
W	Withdraw	*

Norms to Course:

✓ *Submission Date and Time for the term instruments is always* **Un-Extendable**
✓ *5 Absentees in class will be result in forced withdrawal. (**PU Policy**)*
✓ *Re-sit in Mid and Final Term will cause you a loss of 2 and 3 grade marks respectively. (**PU Policy**)*
✓ *This is your responsibility to keep track of your position in class evaluation units.*
✓ *After the submission date, NO excuse will be entertained.*
✓ ***Keep a copy of all submitted Grading Instruments.***
✓ *Assignment is acceptable only in its Entirety.*
✓ *No make up for any assignment and quiz.*
✓ *Copied & Shared work will score Zero.*
✓ *Assignments are Individual.*

Good Luck
For the Spring Term 2020