Ramgarhia Polytechnic College, Phagwara

Computer Science Engineering Department

Head of Department:	Er. PoonamRana
Name of the Faulty:	Er. SangitaSalhan
Discipline:	Computer Science Engineering Department
Semester:	5th
Subject:	Web Development Using Php
Lesson Plan Duration:	16 Weeks

RATIONALE

This course will enable the students to understand the basics of internet and various application of internet like e-mail, FTP, Telnet, Newsgroups and video conferencing In addition, this course develops competency amongst the students to design professional web sites and interactive web pages. They will have overview of different technologies like of HTML, DHTML, XML, CGI, ASP, JSP, Java Scripts, VB Scripts.

Course Outcomes

After undergoing this course, the students will be able to:

CO1. Compare and contrast the use of various markup languages.

CO2. Create a simple XML document.

CO3. Perform various logical operations in PHP.

CO4. Create simple programmes to validate forms in PHP.

CO5. Perform database connectivity using PHP.

CO6. Design a simple HTML form using AJAX technologies.

PO ⇨ / CO ⇩	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1							
CO2							
CO3							
CO4							
CO5							
CO6							

Syllabus

Units	Details	Hours
1.	XML Basics The History of XML;The Origins of XML; Comparison of XML And HTML Components of XML; Anatomy of an XML Document : A Sample XML Document,; XML Declaration; The Root Element ; An Empty Element; Attributes, Markup Delimiters; Element Mark Up; Attribute Mark Up;	(08hrs)
2.	PHP Introduction, syntax, variables, statements, operators, decision making, loops, arrays, strings, forms, get and post methods, functions, Introduction to cookies, storage of cookies at client side, Using information of cookies, Creating single or multiple server side	(24hrs)

	sessions, Timeout in sessions, Event management in PHP, introduction to content management systems based on PHP	
3.	PHP and MySQL Introduction to MySQL, connecting to MySQL database, creation, insertion, deletion and retrieval of MySQL data using PHP, PHP and XML, XML parsers, XML DOM, Introduction to NoSQL and use of new databases (MongoDb, Hbase)	(10hrs)
4.	AJAX Introduction, HTTP request, AJAX Server Script, AJAX Database.	(06hrs)

LISTOFPRACTICALS

1. To design a simple XML document with new tags
2. Represent Library books data using XML
3. Understanding XML schema and its various data types and tags
4. Creation of Web pages using PHP
5. To store a cookie using PHP on client side.
6. To save the user session on server side.
7. To connect mysql database using PHP, reading the database and writing values into the database
8. To implement web pages using the AJAX.

Reference Books:

1. XML How to Program by Deitel, Deitel, Nieto, and Sandhu; Pearson Education.
2. Java 2: The Complete Reference by Herbert Scheldt; BPB
3. Web Enabled Development Application by Ivan Bayross : Commercial; TMH
4. HTML,CSS, JavaScript,Perl, Python and PHP by Schafer Textbooks; Wiley India

Delivery/Instructional Methodologies

Sr.No.	Description
1.	Chalk and Talk
2.	PowerPoint Presentation

Assessment Methodologies

Sr. No.	Description	Type
1.	Student Assignment	Direct
2.	Test	Direct
3.	Board Examination	Direct
4.	Student Feedback	Direct

Gaps in the syllabus - to meet industry/profession requirements

S.NO.	DESCRIPTION	PROPOSED ACTIONS	PO MAPPING
	N/A	N/A	N/A

Topics beyond syllabus/advanced topics

Units	Details	Hours

N/A	N/A	N/A

Web Source References

Sr. No.	URL
1.	

Lesson Plan

Week	Theory		Practical	
	Lecture Day		Practical Day	
1st	1st	XML Basics The History of XML;The Origins of XML Comparison of XML And HTML Components of XML Anatomy of an XML Document	1.	1. To design a simple XML document with new tags
	2nd			
	3rd			
2nd	4th	A Sample XML Document,; XML Declaration The Root Element ; An Empty Element	2.	Revision 1st Practical
	5th			
	6th			

3rd	7th 8th	Attributes, Markup Delimiters Element Mark Up; Attribute Mark Up	3.	2. Represent Library books data using XML
	9th	**SEMINAR**		
4th	10th 11th 12th	PHP Introduction, syntax, variables,	4.	Revision 2nd Practical
5th	13th 14th 15th	Statements Operators, decision making loops,	5.	3. Understanding XML schema and its various data types and tags
6th	16th	**PTM**	6.	Revision 3rd Practical
	17th	**REVISION**		
	18th	**1st Sessional Test (Tentative)**		
7TH	19th 20th 21th	arrays, strings, forms get and post methods, functions	7.	4. Creation of Web pages using PHP
8th	22th 23th 24th	Introduction to cookies, storage of cookies at client side Using information of cookies,	8.	Revision 4th Practical

9th	25th 26th 27th	Creating single or multiple server side sessions	9.	5. To store a cookie using PHP on client side.
10th	28th 29th 30th	Timeout in sessions, Event management in PHP introduction to content management systems based on PHP	10.	Revision 5th Practical
11th	31st 32nd 33th	**SEMINAR**	11.	6. To save the user session on server side
12th	34th 35th 36th	**REVISION** **PTM** **2nd Sessional Test (Tentative)**	12.	Revision 6th Practical
13th	37th 38th 39th	PHP and MySQL Introduction to MySQL, connecting to MySQL database	13.	7. To connect mysql database using PHP, reading the database and writing values into the database

14th	40th 41st 42nd	creation, insertion, deletion and retrieval of MySQL data using PHP ,PHP and XML, XML parsers, XML DOM Introduction to NoSQL and use of new databases (MongoDb, Hbase)	14	Revision 7th Practical
15th	43th 44th 45th	AJAX Introduction, HTTP request AJAX Server Script, AJAX Database.	15.	8. To implement web pages using the AJAX.
16th	46th 47th 48th	**REVISION** **PTM** **3rd Sessional Test (Tentative)**	16.	Revision 8th Practical

NBA has defined the following seven POs for an Engineering diploma graduate:

i) **Basic and Discipline specific knowledge**: Apply knowledge of basic mathematics, science and engineering fundamentals and engineering specialization to solve the engineering problems.

ii) **Problem analysis:** Identify and analyze well-defined engineering problems using codified standard methods.

iii**)** **Design/ development of solutions**: Design solutions for well-defined technical problems and assist with the design of systems components or processes to meet specified needs.

iv) **Engineering Tools, Experimentation and Testing**: Apply modern engineering tools and appropriate technique to conduct standard tests and measurements.

v) **Engineering practices for society, sustainability and environment**: Apply appropriate technology in context of society, sustainability, environment and ethical practices.

vi) **Project Management**: Use engineering management principles individually, as a team member or a leader to manage projects and effectively communicate about well-defined engineering activities.

vii) **Life-long learning**: Ability to analyze individual needs and engage in updating in the context of technological changes.

Program Specific Outcomes (PSOs)

PSOs are a statement that describes what students are expected to know and be able to do in a specialized area of discipline upon graduation from a program. Program may specify 2-4 program specific outcomes, if required.

These are the statements, which are specific to the particular 11 program. They are beyond POs. Program Curriculum and other activities during the program must help in the achievement of PSOs along with POs.