

**SWARNANDHRA
COLLEGE OF ENGINEERING AND TECHNOLOGY
(AUTONOMOUS)**

**SEETHARAMPURAM, NARSAPUR-534280, WG- DT, AP
DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS**

TEACHING PLAN

Course Code	Course Title	Year / Sem.	Branch	Contact Hr/ week	Academic Year
20MC3T02	Web Technologies	II/III	MCA	6	2024-25

Course Objectives:

1. To Learn PHP language for server side scripting
2. To introduce XML and processing of XML Data with Java
3. To introduce Server side programming with Java Servlets and JSP
4. To introduce Client side scripting with JavaScript.

Course Outcomes (COs): At the end of the course, student will be able to

1. Analyze a web page and identify its elements and attributes.
2. To acquire knowledge of xml fundamentals and usage of xml technology in electronic data interchange .
3. Build dynamic web pages using JavaScript (client side programming).
4. To design and develop web based enterprise systems for the enterprises using technologies like jsp, servlet.
5. Build web applications using PHP

Week No	Outcomes	Blooms Level	TOPIC/ACTIVITY	Text books	Contact hours	Delivery Method	
1 2 3	Analyze a web page and identify its elements and attributes	K4	Unit I			Chalk & Board, Digital Board PPT Programming Demonstration.	
			1.1	Web Basics-Introduction	T1		1
			1.2	Concept of Internet-History of Internet	T1		1
			1.3	Protocols of Internet	T1		1
			1.4	World Wide Web, URL,	T1		1
			1.5	Web Server, Web Browser	T1		1
			1.6	HTML-Introduction, History of HTML.	T1		1

			1.7	Structure of HTML Document: Text Basics	T1	1	Programs executed using VS code		
			1.8	Links and webs,	T1	1			
			1.9	Document Layout	T1	1			
			1.10	Creating Forms,	T1	1			
			1.11	Frames and Tables	T1	1			
			1.12	Cascading style sheets	T1	1			
			Unit II						
4	To acquire knowledge of xml fundamentals and usage of xml technology in electronic data interchange	K2	2.1	XML Introduction- Introduction of XML XML	T1	1	Chalk & Board, Digital Board, PPT Programming Demonstration. XML validation done by using various tools like free formatter, Notepad+.		
5			2.2	Defining XML tags, their attributes and values	T1	1			
6			2.3	Document Type Definition	T1	1			
			2.4	XML Schemes	T1	1			
			2.5	Document Object Model	T1	2			
			2.6	XHTML Parsing	T1	1			
			2.7	XML Data - DOM	T1	2			
			2.8	SAX Parsers in java	T1	1			
7	Build dynamic web pages using JavaScript (client side programming).	K3	Unit III						
			3.1	Introduction to Servlets: Common Gateway Interface (CGI)	T1	1	Chalk & Board, Digital Board, PPT Programming Demonstration. Creating Servlets using Tomcat		
			3.2	Life cycle of a Servlet,	T1	1			
			3.3	Deploying a Servlet	T1	1			
			3.4	The Servlet API	T1	1			
			3.5	Reading Servlet parameters	T1	1			
			MID EXAM-I						
			3.6	Reading Initialization parameters	T1	1			
8	3.7	Handling Http Request	T1	1					

9				HTTP Responses			and Eclipse.
			3.8	Using Cookies and Sessions	T1	2	
			3.9	Connecting to a database using JDBC	T1	2	
10 11 12	To design and develop web based enterprise systems for the enterprises using technologies like jsp, servlet.	K6	Unit IV				Chalk & Board, Digital Board PPT Programming Demonstration. Creating JSP files and running those Files in VS code and connecting to the mysql database using Xampp Server.
			4.1	Introduction to JSP: Page	T1	1	
			4.2	The Anatomy of a JSP	T1	1	
			4.3	JSP Processing	T1	1	
			4.4	Declarations,	T1	1	
			4.5	Directives,	T1	1	
			4.6	Expressions	T1	1	
			4.7	Code Snippets, implicit objects	T1	1	
			4.8	Using Beans in JSP Pages	T1	1	
			4.9	Using Cookies and session for session tracking,	T1	1	
			4.10	Connecting to database in JSP.	T1	1	
			4.11	Client-side Scripting: Introduction to JavaScript	T1	1	
			4.12	JavaScript language – declaring variables, scope of variables,	T1	1	
4.13	Functions, Event handlers (onClick, onSubmit etc.),	T1	1				
4.14	Document Object Model	T1	1				
4.15	Form validation	T1	1				
13 14	Build web applications using PHP	K3	Unit V				Chalk & Board, Digital Board, PPT Programming Demonstration.
			5.1	Introduction to PHP: Declaring variables, data types	T2	1	
			5.2	arrays, operators, expressions	T2	1	
			5.3	Strings,	T2	1	
			5.4	Control structures, functions	T2	1	
			5.5	Reading data from web form controls like text boxes,	T2	2	

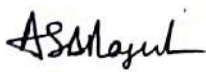
			radio buttons, lists etc.,			Creating PHP programs using VS code and connecting to the MySQL database using XAMPP Server.
		5.6	Handling File Uploads.	T2	1	
		5.7	Connecting to database (MySQL as reference), executing simple queries, handling results,	T2	2	
		5.8	Handling sessions and cookies File Handling in PHP: File operations like opening, closing, reading, writing, appending,	T2	2	
		5.9	File Operations: Deleting etc. on text and binary files, listing directories.	T2	1	
MID EXAM-II						
Total Classes - 60						

Text Books:

1. A.A. Puntambekar, Web Technologies , Technical Publications, Pune, 2023
2. Uttam K Roy, Web Technologies, Oxford University Press, fourth edition, 2011
3. Steven Holzner, Tata McGraw-Hill. The Complete Reference PHP — 2017

Reference Books:

1. HTML5 , Infosys Springboard , https://infyspringboard.onwingspan.com/web/en/app/toc/lex_auth_01384207329335705611878_shared/overview , 2023
2. HTML, Spoken Tutorial by IIT Bombay, https://spoken-tutorial.org/tutorial-search/?search_foss=HTML&search_language=English , 2023
3. PHP and MySQL ,Spoken Tutorial by IIT Bombay , https://spoken-tutorial.org/tutorial-search/?search_foss=PHP+and+MySQL&search_language=English , 2023
4. JavaScript ,Spoken Tutorial by IIT Bombay , https://spoken-tutorial.org/tutorial-search/?search_foss=JavaScript&search_language=English , 2023


Faculty


Head of the Department


Principal