

SCHEME OF COURSE WORK

Course Details:

Course Title	Web Programming								
Course Code	13CT1116	L	T	P	C	4	0	0	3
Program	B.Tech								
Specialization	Computer Science & Engineering, Information Technology								
Semester	V								
Prerequisites	Object Oriented Programming Through JAVA								
Courses to which it is a prerequisite	Middleware Technologies								

Course Outcomes (COs):

1.	Design static and dynamic web pages using HTML and JAVASCRIPT.
2.	Create XML documents.
3.	Develop programs using servlets.
4.	Apply Java Database Connectivity (JDBC) in JSP pages.
5.	Design web pages using AJAX and PHP

Course Outcome Versus Program Outcomes:

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO-1		S	M	M					M			
CO-2	S	S		M					M			
CO-3		S		M					M			
CO-4		S	M	M								
CO-5		S		M								

S - Strongly Correlated,

M - Moderately Correlated,

Blank - No Correlation

Assessment Methods:	Day to Day Analysis(Observation, Record and Viva)/ Lab Internal
----------------------------	---

Teaching-Learning and Evaluation

WEEK	TOPIC/CONTENTS	COURSE OUTCOME	SAMPLE QUESTIONS	TEACHING LEARNING STRATEGY	ASSESSMENT METHOD
1	Practice on basic html tags	CO1	Design home page login page, catalogue and cart page for an online bookstore application. Write JavaScript to validate the registration page. CSS Program that illustrates different styles	Lecture PPT Program execution	Day-to-Day Analysis Lab-Internal-I
2	Online bookstore application and forms	CO1		Lecture PPT Program Execution	
3	Validation of Registration Page using JavaScript	CO1		Lecture PPT Program Execution	
4	Designing web pages using CSS	CO1		Lecture PPT Program Execution	

5	XML Program and DTD for XML	CO2	XML File that stores books information and validate it against a DTD	Lecture PPT Program Execution	Day-to-Day Analysis Lab-Internal-I
6	Using Tomcat web server	CO3	Install tomcat and deploying of static pages in web server	Lecture PPT Program Execution	
7	User authentication using cookies	CO3	Read the user id and passwords entered in the Login form and authenticate with the values (user id and passwords) available in the cookies.	Lecture PPT Discussion	
8	JDBC Connectivity-Basic Programs	CO3	Practice 'JDBC' connectivity. Write a java program to connect to that database and extract data from the tables and display them. Experiment with various SQL Queries.	Lecture PPT Program Execution	
9	LAB INTERNAL I				
10	JDBC Connectivity-Advanced Programs	CO3	Prepared and Callable Statements.	Lecture PPT Program Execution	Day-to-Day Analysis Lab-Internal-II
11	JSP Simple Programs	CO3	Write a JSP which does the following job: Insert the details of the 3 or 4 users who register with the web site.	Lecture PPT Program Execution	
12	JSP Advanced Programs	CO3		Lecture PPT Program Execution	
13	Basics of AJAX Programming	CO4	Create a simple XMLHttpRequest, and retrieve data from a TXT file using AJAX	Lecture PPT Program Execution	
14	AJAX Complex Programming	CO4		Lecture PPT Program Execution	
15	Practice on PHP	CO4	Design the web pages required for an online book store web site using PHP, AJAX, and HTML5	Lecture PPT Program Execution	
16	Server side scripting using PHP	CO4		Lecture PPT Program Execution	
17	Design of a web application using PHP.	CO5		Lecture PPT Discussion	
18	LAB INTERNAL II				
19	LAB EXTERNAL EXAM				