Course code	Name	L-T-P-Credits	Year of Introduction		
IT302	Internet Technology	4-0-0-4	2016		
Prerequisite	: Nil	•			
Course Obje	ective				
• To im	part the basics of web page design				
• To un	derstand important components of HTML5 do	cuments and use HT	ML5 to create		
web p	pages	ALAN			
• To lea	arn to use JavaScript in Webpages to enhance t	he functionality and	appearance of		
web p	pages	INJIL			
• To kn	now XML schema and transformation	TV			
• To de	sign dynamic web pages using PHP.				
Syllabus		. 1 .	1 1		
Computers an	nd internets – Web basics -HIML5 – Page-Stru	ta Departition states	cading style		
sneets – positi	amont European Arrays Objects Docum	its – Repetition stater	nent – Mutiple		
XML – Web	servers – Server side programming	ient object model –L	ynamic styles -		
	servers server side programming				
Expected O	itcomes				
After the cou	rse the students would be able to				
i.	analyze and apply the role of languages like	HTML, <mark>CS</mark> S, XML,	Javascript, PHP		
	and the workings of the web and web application	ations			
ii.	analyze a web project and identify its elemen	nts and attributes in o	comparison to		
	traditional projects.				
iii.	analyze and create web pages using HTML,	and Cascading Style	s sheets.		
1V.	analyze and build dynamic web pages using	JavaScript (client si	de programming).		
V.	analyze and create XML documents and XM	L Schema.			
V1.		is using PHP			
ILAI BOO					
1. Paul J	J. Deitel, Harvey M. Deitel, Abbey Deitel, "Int	ernet and World Wi	de Web How To		
Program" 5/E Pearson Education 2012					
	2014				
REFERENC	CES				
1. Rober	rt W. Sebesta, "Programming the World Wide	Web", 8/E, Pearson	Education, 2012.		
2. Chris 3 <sup>rd</sup> Ec	Bates, "Web Programming – Building Intrane	t applications", Wile	ey Publications,		
3. Jonat Deve	han Chaffer, Karl Swedberg, "Learning jQuery lopment with Simple JavaScript Techniques", 1	r: Better interaction I PACKT publishing,	Design and Web 2007		

4. <u>www.w3schools.com</u>

COURSE PLAN						
Module	Contents		Sem Exam Marks			
1	Introduction to Computers and the Internet- Web Basics, Introduction to HTML5 - W3C HTML5 Validation Service, Headings, Linking, Images, Special Characters and Horizontal Rules, Lists, Tables, Forms, Internal Linking, meta elements, New HTML5 Form input Types, input and datalistelements and autocomplete Attribute, Page-Structure Elements.		15%			
п	Introduction to Cascading Style Sheets -Inline Styles, Embedded Style Sheets, Conflicting Styles, Linking External Style Sheets, Positioning Elements - Absolute Positioning, z- index, Relative Positioning, span, Backgrounds, Element Dimensions, Box Model and Text Flow, Media Types, Drop- Down Menus	8	15%			
FIRST INTERNAL EXAMINATION						
III	JavaScript: Introduction to Scripting - Control Statements - if Selection Statement, ifelse Selection Statement, while Repetition Statement, for Repetition Statement, switch Multiple-Selection Statement, dowhile Repetition Statement, break and continue Statements, JavaScript: Functions- Function Definitions, Random Number Generation, JavaScript Global Functions, JavaScript: Arrays - Declaring,Allocating and Using Arrays, Passing Arrays to Functions, Sorting Arrays with sort, Searching Arrays with indexOf, JavaScript: Objects: Math, String, Date, Boolean and Number, document Object.	8	15%			
IV	Document Object Model (DOM): Modeling a Document: DOM Nodes and Trees, Traversing and Modifying a DOM Tree, DOM Collections, Dynamic Styles, Using a Timer and Dynamic Styles to Create Animated Effects, JavaScript Event Handling:load Event, Event mouse move and the event Object, Form Processing with focus and blur, submit and reset, Event Bubbling		15%			
SECOND INTERNAL EXAMINATION						

V	XML: Introduction, XML Basics, Structuring Data, XML Namespaces, Document Type Definitions (DTDs), W3C XML Schema Documents, XML Vocabularies: MathML, Extensible Stylesheet Language and XSL Transformations, Document Object Model (DOM). Ajax-Enabled Rich Internet Applications with XML and JSON: Introduction, Rich Internet Applications (RIAs) with Ajax, Using XML and the DOM, Creating a Full- Scale Ajax-Enabled Application	11 Л	20%
	Web Servers: Introduction, HTTP Transactions, Multitier Application Architecture, Client-Side Scripting versus Server- Side Scripting, Accessing Web Servers.	L	
VI	Server Side Programming with PHP - Introduction, converting Between Data Types, Arithmetic Operators, Initializing and Manipulating Arrays, String Comparisons, String Processing with Regular Expressions, Form Processing and Business Logic, Using PHP to Process HTML5 Forms, Accessing MySQL Database with PHP, Using Cookies, Dynamic Content	11	20%

## END SEMESTER EXAM

## **QUESTION PAPER PATTERN**

Maximum Marks: 100

Exam Duration: 3 hours

The question paper shall consist of Part A, Part B and Part C.

**Part A** shall consist of three questions of 15 marks each uniformly covering Modules I and II. The student has to answer any two questions  $(15 \times 2=30 \text{ marks})$ .

**Part B** shall consist of three questions of 15 marks each uniformly covering Modules III and IV. The student has to answer any twoquestions  $(15 \times 2=30 \text{ marks})$ .

**Part C** shall consist of three questions of 20 marks each uniformly covering Modules V and VI. The student has to answer any twoquestions  $(20 \times 2=40 \text{ marks})$ .

Note : Each question can have a maximum of 4 subparts, if needed