

ITE1002 Web Technologies			L T P J C 2 0 0 4 3	
Pre-req: CSE1001				
Objectives : To understand web architecture and web languages To program for web client and web server objects To understand web development environment and methodology				
Expected Outcomes: On completion of this course, students will be able to Understand web essentials Develop Web Applications Implement Client/Server Web programming				
Module	Topics	L Hrs	SLO	
1	Web Essentials: Evolution of Web – Web architecture – HTML –XHTML- CSS	4	6	
2	Client-Side Scripting: Javascript Basics –Arrays- Functions - Javascript objects – HTML DOM - DOM methods – Events- Regular Expressions – Form Validation- JSON-Jquery	5	6	
3	Web Applications: Web applications- Web Application Frameworks-MVC framework- Angular JS – Single Page Applications-Responsive Web Design	5	6	
4	Client/Server Communication: HTTP- Request/Response Model- HTTP Methods- RESTful APIs- AJAX-AJAX with JSON	4	6	
5	Web Servers: Node.js-NPM- Callbacks -Events- Express framework-Cookies-Sessions-Scaling	5	6,7	
6	Storage: MongoDB-Manipulating and Accessing MongoDB Documents from Node js	3	7	
7	Reactive frameworks: Meteor JS framework – Templates – Events – Sessions – Publish & Subscribe –Accounts	2	6	
8	Expert talk on Intelligent and Symbiotic Web	2	2	
# Mode: Flipped Class Room, [Lecture to be videotaped], Use of physical and computer models to lecture, Min of 2 lectures by industry experts			Total Lecture Hours 30	
Text Book Brad Dayley, Node.js, MongoDB, and AngularJS Web Development, Addison Wesley, 2014				
Reference Books Jon Duckett, HTML & CSS Design and Build Websites, Wiley, 2011 Jon Duckett, JavaScript and JQuery: Interactive Front-End Web Development,Wiley,2014 Holdener, Ajax: The Definitive Guide,Oreilly,2008				
Compiled By: Prof. Kavitha B.R				