

FR. Conceicao Rodrigues College Of Engineering
 Father Agnel Ashram, Bandstand, Bandra-west, Mumbai-50
Department of Computer Engineering
T.E. (Computer) (semester V)
(2019-2020)

Course Outcomes & Assessment Plan

Total class Strength: 78

Faculty: Mahendra Mehra

Syllabus:

Course Code	Course/Subject Name	Credits
CPL501	Web Technologies Laboratory	2

Module	Detailed Contents	Lab Sessions
01	INTRODUCTION TO WWW 1.1 Internet Standards – Introduction to WWW – WWW Architecture – SMTP – POP3 – File Transfer Protocol 1.2 Overview of HTTP, HTTP request – response — Generation of dynamic web pages- W3C Validator, How web works - Setting up the environment (LAMP/XAMP/WAMP server)	01
02	2.1 Markup Language (HTML): Introduction to HTML and HTML5 - Formatting and Fonts –Commenting Code – Anchors – Backgrounds – Images – Hyperlinks 2.2 Lists – Tables – Frames - HTML Forms and controls. 2.3 Cascading Style Sheet (CSS): The need for CSS, Introduction to CSS 3– Basic syntax and structure ,CSS Properties-Inline Styles – Embedding Style Sheets 2.4 Linking External Style Sheets – Backgrounds –Box Model(Introduction , Border Properties, Padding Properties, Margin Properties), Manipulating text - Margins and Padding - Positioning using CSS., Creating pageLayout and Site Designs	03
03	3.1 Introduction - Core features - Data types and Variables - Operators,Expressions, and Statements, Functions - Objects - Array, Date and Math related Objects 3.2 Document Object Model - Event Handling Controlling Windows &	03

	Frames and Documents Form handling and validations. 3.3 Advanced JavaScript - Browser Management and Media Management – Classes – Constructors – Object-Oriented Techniques in JavaScript 3.4 Object constructor and Prototyping - Sub classes and Super classes – JSON - jQuery and AJAX., Rich Internet Application with AJAX, JQuery Framework	
04	4.1 Introduction - Programming basics - Print/echo - Variables and constants– Strings and Arrays 4.2 Operators, Control structures and looping structures – Functions – Reading Data in Web Pages 4.3 Embedding PHP within HTML - Establishing connectivity with MySQL database, cookies, sessions and Authentication 4.4 AJAX with PHP - AJAX with Databases	04
05	5.1 Dynamic page generation (adding interactivity, styles, using HTML,DHTML, XHTML, CSS, Java Script), XML –DTD(Document Type Definition) - XML Schema 5.2 XML –DTD(Document Type Definition) - XML Schema – Document Object Model - Presenting XML - Using XML Parsers: DOM and SAX,XSL-eXtensible Style sheet Language	02
06	6.1Introduction to Composer - MVC Architecture 6.2 Web Application Development using web development framework:- Introduction to Laravel, Development of Web pages using Laravel. Example web applications – Interactive websites, web based information systems , blogs, social networking sites etc.	01

Text Books:

1. Ralph Moseley , M.T. Savliya ,| Developing Web Applications|, Willy India, Second Edition, ISBN: 978-81-265-3867-6
2. —Web Technology Black Book|, Dremtech Press, First Ediction, 978-7722-997
3. Robin Nixon, "Learning PHP, MySQL, JavaScript, CSS & HTML5" Third Edition, O'REILLY,2014.(http://www.ebooksbucket.com/uploads/itprogramming/javascript/Learning_PHP_MySQL_Javascript_CSS_HTML5__Robin_Nixon_3e.pdf)
4. Professional Rich Internet Applications: AJAX and Beyond, Dana Moore, Raymond Budd, Edward Benson, Wiley publications. <https://ebooks-it.org/0470082801-ebook.htm>

Reference Books:

1. Harvey & Paul Deitel& Associates, Harvey Deitel and Abbey Deitel, —Internet and World Wide Web - How To Program|, Fifth Edition, Pearson Education, 2011.
2. Achyut S Godbole and AtulKahate, —Web Technologies|, Second Edition, Tata McGraw Hill, 2012.

3. Thomas A Powell, Fritz Schneider, —JavaScript: The Complete Reference, Third Edition, Tata McGraw Hill, 2013
4. David Flanagan, —JavaScript: The Definitive Guide, Sixth Edition, O'Reilly Media, 2011
5. Steven Holzner, —The Complete Reference - PHP, Tata McGraw Hill, 2008
6. Mike Mcgrath, —PHP & MySQL in easy Steps, Tata McGraw Hill, 2012.

Digital Material:

1. www.nptelvideos.in
2. www.w3schools.com
3. <http://spoken-tutorial.org>

*** *Setting up /buying the web host management system for hosting of mini project is recommended.**

Term Work: The distribution of marks for term work shall be as follows:

- Lab Assignments : 10 Marks
- Mini Project : 10 Marks
- Attendance : 05 Marks

Practical & Oral Examination:

Practical & Oral examination is to be conducted by pair of internal and external examiners based on the above syllabus.

Course Outcomes for Web Technology Lab

Upon completion of this course students will be able to:

CPL501.1. Develop attractive interactive web site. **(B3-Application)**

CPL501.2. Develop Dynamic, Flexible, Transaction Based Web application using different web development tools **(B3-Application)**

CPL501.3: Understand the basics of XML, DTD and XSL and develop web pages using XML / XSLT. **(B1-remembering)**

CSL504.4: Analyze end user requirements and Develop Software requirement Specification (SRS) **(B3-Application)**

Mapping of CO and PO/PSO

Relationship of course outcomes with program outcomes: Indicate 1 (low importance), 2 (Moderate Importance) or 3 (High Importance) in respective mapping cell.

	PO1 (Engg Know)	PO2 (Ana)	PO3 (De sign)	PO4 (inve stiga)	PO5 (tools)	PO6 (eng g Soci)	PO7 (Env)	PO8 (Eth)	PO9 (ind Team)	PO10 (comm .)	PO11 (Piio M)	PO1 2 (life Long)
CSL504:.1	3	3	3		3				3	2		
CSL504:.2	3	3	3		3				3	2		
CSL504:.3	1				3							
CSL504:4	1	3	3		1							
Course To PO	2.33	3	3		3				3	2		

CO	PSO1	PSO2
CSL504.1	3	3
CSL504.2	3	3
CSL504.3	1	1
CSL504.4	2	2
CourseTo PO	2.33	2.33

Out of syllabus skills which students can learn depending on self commitment of Students initiative are as follows:

1. Writing Skills will help in documentation of project.
2. Cohesion and Coupling will help in developing flexible of modular web applications.
3. Collection Framework importance in developing Java Based Web applications.
4. SQL injection attacks prevention will secure web application.
5. Securing passwords will provide strong Authentication System.
6. Image animation using java script will help in making web site interactive.
7. Image/file upload or download will allow upload or download important files on server.
8. Email Sending Application will provide acknowledgement service.
9. SMS Sending Application will provide acknowledgement service.
10. One Time Password will make Strong Authorization System.
11. Session Management will help in managing each user session and avoid conflict

CO Assessment Tools:

CSL504:.1. Develop attractive interactive web site

Direct Method Tools (dm)	1
Lab (lab)	0.3
Quiz (Quiz)	0.1
End Sem Marks(Practical)(utprac)	0.1
Online Courses Certifications(onlineCerti)	0.2
Mini Project (mp)	0.3
Indirect Method Tools(idm)	1
Course Exit Survey (C01idm)	
<u>CPL501.1 = 0.8*CO1dm + 0.2* CO1idm</u>	

CSL504:.2. Develop Dynamic, Flexible Transaction Based Web application

Direct Method Tools (dm)	1
Lab (lab)	0.3
Quiz(Quiz)	0.1
End Sem Marks(Practical)(utprac)	0.2
Mini Project (mp)	0.4
Indirect Method Tools(idm)	1
Course Exit Survey (C03idm)	
<u>CPL501.3 = 0.8*CO3dm + 0.2* CO3idm</u>	

CSL504:.3: Understand the basics of XML, DTD and XSL and develop web pages using XML / XSLT.(B1-remembering)

Direct Method Tools (dm)	1
Lab (lab)	0.5
Quiz	0.5
Indirect Method Tools(idm)	1
Course Exit Survey (C03idm)	
<u>CPL501.3 = 0.8*CO3dm + 0.2* CO3idm</u>	

CSL504.4: Analyze end user requirements and Develop Software requirement Specification (SRS)

Direct Method Tools (dm)	1
SRS Document (srs)	1.0
Indirect Method Tools(idm)	1
Course Exit Survey (C03idm)	
<u>CPL501.3 = 0.8*CO3dm + 0.2* CO3idm</u>	

Course Outcomes Target:

Upon completion of this course students will be able to:

CPL501.1. Develop attractive interactive web site.

Target level: 3

CPL501.2. Develop Dynamic, Flexible Transaction Based Web application

Target level: 3

CPL501.3: To learn how XML and its related technologies function and their applications

Target level: 3

CSL504.4 : Analyze end user requirements and Develop Software requirement Specification (SRS)

Target level 3

CPL501.1. Develop attractive interactive web site.

Direct Methods	Criteria	Weightage	Marks
Lab (Lab 1,2,3)	70% of Students with minimum score 70% marks	0.3	3*10=30
Mini Project	70% of Students with minimum score 70% marks	0.3	(Evaluation 1) 10
Quiz(1) (online) (html,css,javascript)	70% of Students with minimum score 70% marks	0.1	25+20+10=55
Online Courses Certifications	All Students must successfully complete courses	0.2	5
End Exam Marks	70% of Students with minimum score 70% marks	0.1	25
Course Exit survey	Total No of respondents ? (75% students strongly agree and agree)	Strongly Agree	
Total attainment	<u>CPL501.1 = 0.8*CO1dm + 0.2*CO1idm</u>		

CPL501.2. Develop Dynamic, Flexible Transaction Based Web application

Direct Methods	Criteria	weightage	Marks
Lab (Lab 4 to 8)	70% of Students with minimum score 70% marks	0.3	5*10=50
Mini Project	60% of Students with minimum score 70% marks	0.4	(Evaluation 2 &3)10+10=20
Quiz(online) (2) (node js, php)	50% of Students with minimum score 60% marks	0.1	(20+20+10)=50
End Exam Marks	70% of Students with minimum score 70% marks	0.2	25
Course Exit survey	Total No of respondents ? (75% students strongly agree and agree)	Strongly Agree	
Total attainment	<u>CPL501.3 = 0.8*CO1dm + 0.2*CO1idm</u>		

CPL501.3: To learn how XML and its related technologies function and their applications
(B1-remembering)

Direct Methods	Criteria	weightage	Marks
lab	70% of Students with minimum score 70% marks	0.5	10
Quiz	70% of Students with minimum score 70% marks	0.5	5
Course Exit survey	Total No of respondents ? (75% students strongly agree and agree)	Strongly Agree	
Total attainment	<u>$CPL501.1 = 0.8*CO1dm + 0.2*CO1idm$</u>		

CSL504.4 : Analyze end user requirements and Develop Software requirement Specification (SRS)

Direct Methods	Criteria	weightage	Marks
Software Requirement Specification	70% of Students with minimum score 70% marks	1.0	10
Course Exit survey	Total No of respondents ? (75% students strongly agree and agree)	Strongly Agree	
Total attainment	<u>$CPL501.1 = 0.8*CO1dm + 0.2*CO1idm$</u>		

Content Beyond Syllabus:

Sr.No.	Curriculum gap contents	Action Plan	Mapping to CO
1.	NODE js	Planning to take Practical's	CO2
2.	Usage of online tools for Documentation :	Self learning online resource www.codeschool.com	CO2
3.	SQL Injection Countermeasures	Implementation in practical, Source Moodle Study Material	CO2

Curriculum Gap:

In the 2nd year the students study the course OOPM& DBMS that is prerequisite for this course. For the transition from 2nd year to 3rd year there is no curriculum gap.

In order to achieve the course objectives, there are some topics listed below are not given much importance.

Sr.No.	Curriculum gap contents	Action Plan	Mapping to CO
1.	Jquery & Angular web hosting on cloud	Self learning online course (angular / react/ MEAN stack/AWS web deployment	CO1
2.	Interactive web page Development (Jquery/ajax/angularJs)	Guest Lecture is planned in September	CO2

Justification

CO1 maps PO's in following manner,

PO1: Student's apply knowledge of Engineering fundamentals to make automated systems. i.e. Online Tiffin Services.

PO2:Students do requirement gathering for a chosen project .Also analyses the requirements.

PO3:Students design the website layout for chosen project

PO5:Students use the IT tools like netbeans, eclipse, sublimeText,Email,SMS,file upload API's for development of chosen project

PO7:Students develop web sites which are beneficial to the society

PO9:Students work in a team to develop project using web technologies. Students also progress independently

CO2 maps PO's in following manner:

PO1:Students use knowledge of Development tools for development of web site as well as web application

PO5: Students use new development tools like netbeans,eclipse,umbrello,email sending API,File upload API etc.

PO1:Students apply knowledge of Engineering fundamentals to make automated systems. i.e. Online Grievance Redressal System.

PO2:Students do requirement gathering for a chosen project .Also analyses the requirements.

PO3:Students design the ER Diagram ,use case diagram etc. for chosen project

PO5:Students use the IT tools like netbeans/eclipse for development of chosen project

PO7:Students develop web applications which are beneficial to the society

PO9:Students work in a team to develop web applications using web technologies. Students also progress independently by working in their favorite area.

CO3 maps PO's in following manner:PO1: PO5: Students use netbeans or sublime text tool for creating xml files

CO's maps PSO's in following manner:

PSO1: All COs are mapped to PSO1 because the graduates will be able to apply fundamental knowledge of Web Engineering principles to provide computer based solution to real world problems.

PSO2: CPL501.1, CPL501.2are mapped to this PSO2 because the students design and implement the a software system with consideration of Web Engineering Principles.

Rubrics for the Lab Experiments: for First 3 Lab Experiments

Rubrics for WT Lab Experiment 1

Indicator	Poor	Average	Good	Excellent
Use of At least 30 tags in Web pages (5)	N.A.	Less than 15 tags used (≤ 2)	Between 15-30 tags used. (3-4)	30 or more tags are used with their attributes (5)
Level of content (2)	The text is extremely difficult to read due to inappropriate use of fonts, point size, bullets, italics, bold, and indentations for headings and sub-headings and body text. (0.5)	The typography is difficult to read and uses too many different fonts, overuse of bold, bullets, italics, capital letters or lack of appropriate indentations of text. (1)	Sometimes the typography is easy-to-read, but in a few places. The use of fonts, point size, bullets, italics, bold, and indentations for headings and subheadings detract and do not enhance readability. (1.5)	The typography is easy-to-read and point size varies appropriately for headings and text. Use of bullets, italics, bold, and indentations enhances readability. Consistent format extends page-to-page. (2)
Post Lab Questions (2)	Answered 1 question correctly. (0.5)	Answered 2 questions correctly. (1)	Answered any 3 questions correctly (1.5)	Answered all 4 questions correctly. (2)
Timeline (1)	Not performed on time (0)	N.A.	N.A.	Early or on time. (1)

Rubrics for WT Lab Experiment 2

Indicator	Poor	Average	Good	Excellent
Implementation of all types of CSS (4)	N.A.	Only 1 type used (<=2)	Any 2 types used (3)	All 3 types used (4)
Attractive Layout (3)	The layout uses horizontal and vertical white space inappropriately and the content appears cluttered. The background, colors and layout make the site unattractive, and it is difficult to read the information presented. (1)	The layout uses horizontal and vertical white space inappropriately in some places. The background, colors and layout are distracting and make it difficult to read the information presented. (2)	The layout uses horizontal and vertical white space appropriately in most places. The background, colors and layout are consistent across the website and make it easy to read the information presented. (2.5)	The layout uses horizontal and vertical white space appropriately. The background, colors and layout are artful and consistent across the website and enhance the readability of the information presented. (3)
Post Lab Questions (2)	N.A.	Answered any 1 question correctly. (1)	Answered any 2 questions correctly(1.5)	Answered all 3 questions correctly. (2)
Timeline (1)	Not performed on time (0)	N.A.	N.A.	Early or on time. (1)

Rubrics for WT Lab Experiment 3

Indicator	Poor	Average	Good	Excellent
Implementation of event handling (3)	Needs Work (0.5)	Partially proficient(1)	Proficient (2)	Advanced (3)
Client side validations using Regular expressions (4)	Needs Work (1)	Partially proficient(2)	Proficient (3)	Advanced (4)
Post Lab Questions (2)	N.A.	N.A.	Answered any 1 question correctly(1)	Answered both questions correctly. (2)
Timeline (1)	Not performed on time (0)	N.A.	N.A.	Early or on time. (1)

Rubrics for WT Mini Project Demonstration

Indicator	Poor	Average	Good	Very Good	Excellent
Knowledge of Static web site development(10M) CO1	N.A.	Usage of html only (3-4)	Usage of html ,CSS(5-6)	Usage of html,css ,javascript (7-8)	Usage of html,css.js,jquery,ajax,js on,angular (9-10)
Knowledge of web development Tools(5M) CO2	NA	Knowledge of web development tool like netbeans only	Knowlwdge of Web development tools like (eclipse,netbeans,webstorm),email sending API	Knowlwdge of Web development tools like (eclipse,netbeans,webstorm),SMS sending API	Knowlwdge of Web development tools like (eclipse,netbeans,webstorm) plus oracle/postgrese/mysql connectivity from IDE,plusSMS sending API plus Email Sending API
Knowledge of Dynamic web application development(20M) CO3	Incomplete (<10)	Non mvc architecture of web application without database connectivity (10-14)	Non MVC architecture plus datyabase connectivity(14-15)	Node js without MVC but use of Standard action tags (16-18)	MVC with node js(18-20)plus OTP, Email, SMS sending
Requirement Document (10M) CO2,CO1	Unorganized(2M)	Functional and non functional Requirements	Functional and non functional Requirements, plus (h/w and s/w requirements) (5-6)	Functional and non functional Requirements plus(h/w and s/w requirements) plus (Use Case ,Class ,ER Diagrams) (7-8)	Document with IEEE format(9-10) Plus Functional and non functional Requirements plus(h/w and s/w requirements) plus (Use Case ,Class ,ER Diagrams) plus database Queries
Team Work (5M) Maps to CO1 & CO2	No Coordination at	Many Problems while	Very few problems on integration.lack	Used google drive for integrating	Used git-hub for project integration.Divided Tasks wisely , well

	all (1M)	integrating group members code,no time managemen t,uneven distribution of Tasks(2M)	of time management(3 M)	project,tasks divided wisely,time management good(4M)	presentation, good documentation. could manage time very well(5M)
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Evaluation 1: Dates: 27th august to 2nd Sept 19 10Marks

Technology	Criteria	Rubrics	Marks
Html	Html4 and Html5 tags	- Usage of minimum 30 html tags - Content spelling should be correct - Content should be relevant to topic	1
	Images	- Image placement should be proper - Image should be relevant to the information/content you are displaying	1
	Hyperlinks	- There should be no broken Link - Web pages continuity should be maintained	1
CSS	External CSS	Layout uniformity should be maintained using external CSS	1
	Usage of colours fonts, margin ,padding	Colours,Fonts,padding ,margin of the web pages should be accurate	1
	Internal CSS	Specific pages layout should be changed using internal CSS	1
Java Script	Client side Validations	- Validating non-empty Field - Validating different Form Fields like (textfield, passwordField, phonenumber, email Fields)etc.. accordingly	3
	Making website interactive	Usage of java script concepts to make web pages interactive	1
Total			10
Suggestions:			
Mentor Signatures	1	2	3

Evaluation 2: Dates: 17-19 September 19 10Marks

Technology	Criteria	Rubrics	Marks
Requirement document	1. ER diagram	Identifying Entities and attributes appropriately	2
	2. Database Queries	CRUD queries	3
	3. Use case diagram for project	Identification of use cases with precondition ,execution ,post execution	1
Features (Project Specific)	4. Functional Requirement 1	Login Module Eg. (signup, login, forgot password, change password)	2
	5. Functional Requirement 2	E.g.Shopping cart, email sending, sms sending	2
Total			10
Suggestions:			
Mentor Signatures	1	2	3

Evaluation 3: Dates: 07-11 October 19 10Marks

Technology	Criteria	Rubrics	Marks
Group Work	1. Cooperation	Students will be judged based on how they cooperate with the team members	2
	2. Code integration	Student will be judged based on how well they are able integrate code	2
		•	
Features	1. Functional Requirement 1	Coupling & cohesion	2
	2. Functional Requirement 2	Node js with MVC	2
	3. Functional Requirement 3	Etc Etc...	2
		•	
Total			10
Suggestions:			
Mentor Signatures	1	2	3

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Sr. No.	Experiment Name	WEEK	DATE	CO Mapping
1	Hyper Text Markup Language(HTML4,HTML5) 1. Resume preparation 2. Develop Login Pages 3. Develop Registration Form	WEEK1	15/07/19- 19/07/19	CO1
2	Cascading Style Sheet(Different Types of CSS) Style 1. Resume, 2. Login Page, 3. Registration Form	WEEK2	22/07/19- 26/07/19	CO1
3	Java script(client side validations and event Handling) 1. Validate Registration Form(Regular Expressions) 2. Develop Interactive web Pages using Event Handling	WEEK3	29/07/19 to 02/08/19	CO1
4	Setting up Node.js and Other Essentials	WEEK4	5/08/19 to 9/08/19	CO2
	Node Console In which we install Node, hop into the console, and execute a simple program. Let's make a server			

	In which we create a simple Node server and ship out a website.			
5.a	File System In which we interact with the file system, and serve a web page from a file. Node Modules In which we learn about Node modules, how they work, and how to make one.	WEEK5	19/8/19 to 23/8/19	CO2
5.b	Node Js Database Connectivity with Model View Controller Architecture 1. Learn design principles cohesion and coupling. 2. Develop a web application which will perform CRUD operation on Customer table using NODE Js api 3. Develop web application using Model-View-Controller Architecture Eg. 1. Register Customer 2. Update Customer 3. Delete Customer 4. View Customer 5. View Customers	WEEK5 WEEK6	26/8/19 to 30/8/19	CO2
			27/8/19 to 31/8/19	CO2

6	PHP (Server Side Scripting) Develop Server Side scripting PHP Programs. 1. Use HTML form to accept the two numbers N1 and N2 and Using PHP program display only prime numbers in between N1 and N2. 2. Develop a number guessing application.	WEEK7	9/9/19 to 13/9/19	CO2
7	Php – mysql database connectivity	WEEK8	16/9/19 to 20/9/19	CO2
8	Develop sample CD catalog XML application,DTD,XSL	WEEK9	23/9/19 to 27/9/19	CO3
	Learn difference between XML and JSON			
9	Mini Project Presentation With Software Requirement Specification (Final)	WEEK 10	30/09/19 to 11/10/19	CO4

Mentors:

Mahendra Mehra:

Ashwini Pansare:

Monali Shetty:

FR. Conceicao Rodrigues College Of Engineering

Father Agnel Ashram, Bandstand, Bandra-west, Mumbai-50

Department of Computer Engineering**S.E. (Computer) (semester V)****(2019-2020)****Lesson Plan : Web Design Lab****Semester III****Year: 2019-2020****Modes of Content Delivery:**

i	Class Room/Lab Teaching	v	Self Learning Online Resources	ix	Industry Visit
ii	Tutorial	vi	Slides	X	Group Discussion
iii	Remedial Coaching	vii	Simulations/Demonstrations	xi	Seminar
iv	Lab Experiment	viii	Expert Lecture	xii	Case Study

Sr. No.	Experiment Name	Category	Planned Date	Actual Date	Content Delivery Method/Learning Activities	No of Hours
1	Hyper Text Markup Language	Static Web site Development Maps To CO1	15/07/19-19/07/19		I,IV,V,VI,VII	4
2	Cascading Style Sheet		22/07/19-26/07/19		I,IV,V,VI, VII	4
3	Java script(client side validations and event Handling)		29/07/19 to 02/08/19		I,IV,V,VI, VII	8
4	Node js (basic)	Dynamic Web Application Development Maps To CO2	5/08/19 to 9/08/19		I,IV,V,VI, VII	4
5	Node js Database Connectivity with Model View Controller Architecture	Dynamic Web Application Development Maps To CO2	19/8/19 to 23/8/19 And 26/8/19 to 30/8/19		I,IV,V,VI, VII	4
6	php basics	Transaction	9/9/19 to		I,IV,V,VI, VII	4

		based web Application Development Maps To CO2	13/9/19			
7	php–database connectivity	Dynamic Web Application Development Maps To CO2	16/9/19 to 20/9/19		I,IV,V,VI, VII	4
8	XML.	Knowledge based Maps To CO3	23/9/19 to 27/9/19		I,IV,V,VI, VII	4
Total Hours						

**Students are expected to dedicate (46 Hours of Lab + at least 30 Hours of self Study)
For this project.**

Text Books/ Reference Books: Head First Html, Head First Java Script, practical node js by Azat Mardan

Reference Web sites: Study Material On Moddle, headfirstlabs.com, w3school.com

First 8 Experiments will have one Quiz each having 20 to 25 Multiple choice Questions.

Term Work consists of 25 Marks(8 Marks for Practical's + 4 Marks for Quiz + 8 Marks for Mini Project + 5 marks for online course(nodejs/react/ angularjs/aws web deployment on web portals like codeschool, udemy, nptel, cloudguru, coursera)

Total Web Technology Laboratory Marks=TW +PRACTICAL=25+25=50

Fr. Conceicao Rodrigues College of Engineering

Bandra,

Web Design Laboratory (CSL504)

Mini Project Project Assessment

Project Title:				
Team Members:				
Roll number	Name	Self Assessment Marks (Out Of 8)	Mentor Assessment Marks (Out Of 8)	Signature of Students

Mentor Signature:

External Signature:

Sr No	Feature List:	Yes	No	Who did Implementation
1	Email Sending			
2	Non-Derby Database			
	OTP Generation			
3	Captcha			
4	Forgot password			
5	Reset Password			
6	Password Encryption			

7	Registration			
8	SMS sending			
9	SQL Injection attack prevention			
10	Use of Bootstrap or semantic			
11	File uploading			
12	E R Diagram up to 3 rd Normal Form			
13	Table Queries file			
14	Session Management			
15	Use of Ajax			
16	Use of JQuery			
17	Documentation of Software Requirement Specification			
18	Web Application Screen Shots			
19	How to take database backup automatically			
20	Login with google or Facebook			
21	High Cohesion			
22	Low coupling			
23	Usage of Data Access Object Design pattern			
24	Model View Controller Architecture			
25	Pagination feature For fetching records from database			