Vidya Jyothi Institute of Technology

(An Autonomous Institution)
(Accredited by NAAC & NBA, Approved by AICTE New Delhi & Permanently Affiliated to JNTUH)
Aziz Nagar Gate, C.B. Post, Hyderabad-500 075

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

REGULATION: R18

BATCH: 2018-2022

ACADEMIC YEAR: 2020-21

PROGRAM: B.TECH(COMPUTER SCIENCE AND ENGINEERING)

YEAR/SEM: III-I

COURSE NAME: WEB TECHNOLOGIES

COURSE CODE: A25587

COURSE COORDINATOR: P LAKSHMI PRIYA

Head of the Department
Computer Science and Engineering
VJIT, Hyderabad-50075.

LABORATORY COURSE FILE INDEX

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List of Experiments

Week 1: Create a registration page using HTML.

Week 2: Create a static HTML application with three frames as below:

First frame at the top containing a header. Second frame a navigation frame that contains hyperlinks to open 3 other pages. Third frame that displays a page corresponding to the hyperlinks in the second frame

Week 3: Design a static HTML page that contains a selection box with a list of 5 countries.

When the user selects a country, its capital should be printed next to the list. Add CSS to customize the properties of the font of the capital (color, bold and font size).

Week 4: Design a HTML page with required JavaScript that takes a number from one textfield in the range of 0 to 999 and shows it in another text field in words. If the number is out of range, it should show "out of range" and if it is not a number, it should show "not a number" message in the result box.

Week 5: Validate the fields of registration page created in the first experiment using regular expressions in JavaScript.

Week 6: Validate an XML document using DTD and XML schema.

Week 7: Create an XML document that contains 10 users information. Write a Java program, which takes User Id as input and returns the user details by taking the user information from the XML document using (a) DOM Parser and (b) SAX parser

Week 8: Create a PHP application that reads request parameters from the registration page created in the first experiment and stores in the database.

Week 9: Create a PHP application program for authenticating users for the above program using sessions.

Week 10: Installation and configuration of Tomcat and deploy a simple "Hello World" servlet.

Week 11: Write a servlet that reads request parameters from the registration page created in the first experiment and stores in the database.

Week 12: Write a servlet program for authenticating users for the above program.

Week 13: Implement the following session handling techniques using servlets:

i) Cookies

ii) Hidden form field

iii) HttpSession

iv) URL Rewriting

Week 14: Create a JSP application that reads request parameters from the registration page created in the first experiment and stores in the database using Java Beans.

Week 15: Create a JSP application for authenticating users for the above program

Laboratory Course Outcomes:

At the end of the course, student will be able to:

1. Design static web pages that perform client side authentication.

2. Understand XML data representation.

3. Create dynamic web application using PHP and access database.

4. Implement sessions in web applications

5. Design dynamic web applications using MVC architecture

Program Outcomes(PO's), Program Specific Outcomes(PSO's), Program Educational Objectives(PEO's)

Program Outcomes (PO's)

1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization for the solution of complex engineering problems.
2. **Problem analysis:** Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for public health and safety, and cultural, societal, and environmental considerations.
4. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modelling to complex engineering activities, with an understanding of the limitations.
6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with the society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Specific Outcomes (PSOs)

PSO 1: The ability to design and develop Algorithms to provide optimized solutions for societal needs

PSO 2: Apply standard approaches and practices in Software Project Development through trending technologies

Program Educational Objectives (PEOs)

PEO1: Enhance the employability of the graduates in Software industries/Public sector/Research organizations

PEO2: Acquire analytical and computational abilities to pursue higher studies for professional growth

PEO3: Work in multidisciplinary project teams with effective communication skills and leadership qualities

PEO4: Develop professional ethics among the students and promote entrepreneurial abilities

Mapping of Course Outcomes(CO's) with Programme Outcomes(PO's) & Programme Specific Outcomes(PSO's)

COURSE OUTCOMES:

After completing this course the student must demonstrate the knowledge and Ability to	
CO1	Design static web pages that perform client-side authentication.
CO2	Understand XML data representation.
CO3	Create dynamic web application using PHP and access database.
CO4	Implement sessions in web applications.
CO5	Design dynamic web applications using MVC architecture.

CO –PO MAPPING:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	3	3	3	3	3	3	3	3	3	3
CO2	3	3	3	3	3	3	3	3	3	3	3	3
CO3	3	3	3	3	3	3	3	3	3	3	3	3
CO4	3	3	3	3	3	3	3	3	3	3	3	3
CO5	3	3	3	3	3	3	3	3	3	3	3	3
Avg	3	3	3	3	3	3	3	3	3	3	3	3

CO - PSO MAPPING:

	PSO1	PSO2
CO1	3	3
CO2	3	3
CO3	3	3
CO4	3	3
CO5	3	3
Avg	3	3

Course Instructor

HOD

Head of the Department
Computer Science and Engineering
VJIT, Hyderabad-500Q75.

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
Continuous Lab Assessment sheet

Academic year: 2020-21

Course name: Web Technologies Lab

Regulation: R16

Course code: A25587

Year/sem/ Section: III-2/A

Date: 19-2-2021

S.NO	HNO	Week1	Week2	Week3	Week4	Week5	Week6	Week7	Week8	Week9	Week10	Week11	Week12	Week13	Week14	Week15	Week16	Reduced to	Internal	Total 25
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Continuous Lab Assessment sheet

Academic year: __2020-21__   Regulation: __R18__

Course name: __Web Technologies Lab__   Course code: __A25587__

Year/sem: __III-2__   Section: __A__   Date: __28/12/2020 (FN)__

S. No	Ht.No	Observation (5M)	Completion of Experiment (10M)	Viva (5M)	Record (5M)	Total (25M)
1.	18911A05D1	5	10	3	5	23
2.	2	5	10	4	5	24
3.	3	5	10	3	5	23
4.	4	5	10	5	5	25
5.	5	5	10	5	5	25
6.	6	5	10	5	5	25
7.	7	5	10	3	5	23
8.	8	5	10	2	5	22
9.	9	5	10	5	5	25
10.	10	5	10	5	5	25
11.	11	5	10	4	5	24
12.	12	5	10	2	5	22
13.	13	5	10	4	5	24
14.	15	5	10	5	5	25
15.	16	5	10	0	5	20
16.	18	5	10	5	5	25
17.	19	5	10	5	5	25
18.	21	A	—			A
19.	22	5	10	2	5	22
20.	23	5	10	4	5	24
21.	24	5	10	4	5	24
22.	25	5	10	1	5	21
23.	27	5	10	5	5	25
24.	28	5	10	4	5	24
25.	29	5	10	2	5	22
26.	30	5	10	1	5	21
27.	31	5	10	2	5	22
28.	32	5	10	2	5	22
29.	33	5	10	4	5	24
30.	34	5	10	5	5	25
31.	35	5	10	2	5	22

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Continuous Lab Assessment sheet

Academic year: 2020 – 21   Regulation: R18

Course name: Web Technologies Lab.   Course code: A25587

Year/sem: III – 2   Section: A   Date: 28/12/20 (AN)

S. No	Ht.No	Observation (5*1)	Completion of Experiment (10M)	Viva (5M)	Record (5M)	Total (25M)
1.	18911A05201	5	10	2	5	22
2.	2	5	10	5	5	25
3.	3	5	10	2	5	22
4.	4	5	10	2	5	28
5.	5	5	10	5	5	25
6.	6	5	10	5	5	25
7.	7	5	10	2	5	22
8.	8	5	10	1	5	21
9.	9	5	10	5	5	25
10.	10	5	10	5	5	25
11.	11	5	10	1	5	21
12.	12	5	10	0	5	20
13.	13	5	10	5	5	25
14.	15	5	10	5	5	25
15.	16	5	10	2	5	22
16.	18	5	10	5	5	25
17.	19	5	10	5	5	25
18.	21	5	10	0	5	20
19.	22	5	10	2	5	22
20.	23	5	10	5	5	25
21.	24	5	10	3	5	23
22.	25	5	10	0	5	20
23.	27	5	10	5	5	25
24.	28	5	10	3	5	23
25.	29	5	10	2	5	22
26.	80	5	10	2	5	22
27.	31	5	10	3	5	23
28.	32	5	10	2	5	22
29.	33	5	10	4	5	24
30.	84	5	10	4	5	24
31.	35	5	10	2	5	22

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Continuous Lab Assessment sheet

Academic year: 2020-21   Regulation: R18

Course name: Web Technologies Lab   Course code: A25587

Year/sem: III-I   Section: A   Date: 5/2/2021

S. No	Ht.No	Observation (5M)	Completion of Experiment (10M)	Viva (5M)	Record (5M)	Total (25M)
1.	18911A001	5	10	4	5	24
2.	2	5	10	4	5	24
3.	3	5	10	3	5	23
4.	4	5	10	0	5	20
5.	5	5	10	5	5	25
6.	6	5	10	4	5	24
7.	7	5	10	3	5	23
8.	8	5	10	2	5	22
9.	9	5	10	5	5	25
10.	10	5	10	5	5	25
11.	11	5	10	0	5	20
12.	12	5	10	0	5	20
13.	13	5	10	4	5	24
14.	15	5	10	5	5	25
15.	16	5	10	3	5	23
16.	18	5	10	4	5	24
17.	19	5	10	5	5	25
18.	21	5	10	3	5	23
19.	22	5	10	3	5	23
20.	23	5	10	5	5	25
21.	24	5	10	4	5	24
22.	25	5	10	2	5	22
23.	27	5	10	5	5	25
24.	28	5	10	4	5	24
25.	29	5	10	2	5	22
26.	30	5	10	3	5	23
27.	31	5	10	3	5	23
28.	32	5	10	0	5	20
29.	33	5	10	3	5	23
30.	34	5	10	5	5	25
31.	35	5	10	0	5	20

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Continuous Lab Assessment sheet

Academic year: 2020-21   Regulation: R18

Course name: Web Technologies lab   Course code: A25587

Year/sem: III-2   Section: A   Date: 12/9/2021

S. No	Ht.No	Observation (5M)	Completion of Experiment (10M)	Viva (5M)	Record (5M)	Total (25M)
1.	18911A0501	5	10	3	5	23
2.	2	5	10	4	5	24
3.	3	5	10	3	5	23
4.	4	5	10	4	5	24
5.	5	5	10	5	5	25
6.	6	5	10	4	5	24
7.	7	5	10	4	5	24
8.	8	5	10	4	5	24
9.	9	5	10	5	5	25
10.	10	5	10	5	5	25
11.	11	5	10	4	5	24
12.	12	5	10	3	5	23
13.	13	5	10	5	5	25
14.	15	5	10	5	5	25
15.	16	5	10	4	5	24
16.	18	5	10	5	5	25
17.	19	5	10	5	5	25
18.	21	5	10	3	5	23
19.	22	5	10	4	5	24
20.	23	5	10	5	5	25
21.	24	5	10	5	5	25
22.	25	5	10	3	5	23
23.	27	5	10	5	5	25
24.	28	5	10	5	5	25
25.	29	5	10	4	5	24
26.	30	5	10	4	5	24
27.	31	5	10	3	5	23
28.	32	5	10	4	5	24
29.	33	5	10	5	5	25

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Department of Computer Science & Engineering
Course End Survey Form Academic year: 2020-21

Name of the student	G. Sri lekha	Year &sem	III – I
Roll number	18911A0519	Regulations	R 18

Dear Student,

We need your help in evaluating the courses offered, by responding the short survey below.

Your feedback is very valuable for us in order to continually improve our program. The aim of this survey is to evaluate how well each of the courses has prepared you to have necessary skills.

Your responses will be kept confidential and will not be revealed to anyone outside the department without your permission.

Please indicate (√) the level to which you agree with the following criterion:
(3: Strongly agree   2: Agree   1: Strongly disagree)

Name of The Course: Web Technologies Lab	RATING		
After completing this course the student must demonstrate the knowledge and ability to	3	2	1
CO 1 Design static web pages that perform client-side authentication.	√		
CO 2 Understand XML data representation.	√		
CO 3 Create dynamic web application using PHP and access database.	√		
CO 4 Implement sessions in web applications.	√		
CO 5 Design dynamic web applications using MVC architecture.	√		

Any other comments / suggestions: _____
The lab programs are useful for ex
in Industrial applications.

Signature