**Design and develop a responsive website using toggleable or dynamic tabs or pills with bootstrap and JQuery to show the relevance of SDP, EDI, DT and Course projects in VIT.**

**Html code**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1">

<title>Relevance of course projects in VIT</title>

<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css" rel="stylesheet">

<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.bundle.min.js"></script>

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.4/jquery.min.js"></script>

<link href="WT\_Lab1.css">

</head>

<body>

    <div class="m-4">

        <ul class="nav nav-tabs" id="myTab">

            <li class="nav-item">

                <a href="#sdp" class="nav-link active" data-bs-toggle="tab" id="defaultOpen" onclick="openPage('sdp', this)">SDP</a>

            </li>

            <li class="nav-item">

                <a href="#edi" class="nav-link" data-bs-toggle="tab"  onclick="openPage('EDI', this)">EDI</a>

            </li>

            <li class="nav-item">

                <a href="#dt" class="nav-link" data-bs-toggle="tab"  onclick="openPage('DT', this)">DT</a>

            </li>

            <li class="nav-item">

                <a href="#dt" class="nav-link" data-bs-toggle="tab"  onclick="openPage('CP', this)">Course Projects</a>

            </li>

        </ul>

    </div>

<!--SDP TAB CONTENT-->

<div id="sdp" class="tabcontent" style="padding: 10px;">

    <h2 style="text-align: center;">CS2207::Software Development Project -I</h2> <br>

    <h3><b>Course Objectives</b></h3>

    <ol style="justify-content: flex-start;">

        <li>To develop problem solving ability using programming skills by exploring and proposing solutions to realistic/social problems.</li>

        <li>To Evaluate alternative approaches, and justify the use of selected tools and methods</li>

        <li>To emphasize learning activities those are long-term, inter-disciplinary and student-centric.</li>

        <li>To engage students in rich and authentic learning experiences.</li>

        <li>To provide every student the opportunity to get involved either individually or as a group so as to develop team skills and learn professionalism.</li>

        <li>To develop an ecosystem to promote entrepreneurship and research culture among the students</li>

    </ol>

    <br>

    <h3><b>Course Relevance: </b></h3>

    <p style="justify-content: flex-start;"> Software project development comes under the category of project based

        learning (PBL). PBL is an instructional approach designed to give students the opportunity to

        develop knowledge and skills through engaging projects set around challenges and problems

        they may face in the real world by using domain specific language technologies. PBL is

        "learning by doing." </p>

    <br>

    <h3><b>Sample Software Project Statement based on Java and Mobile Application Development

    </b></h3>

    <ol style="justify-content: flex-start;">

        <li>Design and deploy an android app for real time criminal detection on the basis of database provided by the police department.</li>

       <li>Design and deploy an android app for real time health alarm generation like Aarogya Setu.</li>

        <b>...not limited to.....</b>Faculty and students are free to include other area which meets the

        society requirements at larg

    </ol>

    <br>

    <h3><b>Course Outcomes: </b></h3><br>

    <h5><b>On completion of the course, learner will be able to–</b></h5>

    <ul>

        CO1: Identify the real life problem from societal need point of view <br>

        CO2: Choose and compare alternative approaches to select most feasible one <br>

        CO3: Analyze and synthesize the identified problem from technological perspective <br>

        CO4: Design the reliable and scalable solution to meet challenges <br>

        CO5: Evaluate the solution based on the criteria specified <br>

        CO6: Inculcate long life learning attitude towards the societal problems

    </ul>

    <br>

</div>

<!--EDI TAB CONTENT-->

<div id="EDI" class="tabcontent" style="padding: 10px;">

    <h2 style="text-align: center;">CS2209::Engineering Design and Innovations</h2> <br>

    <h3><b>Course Objectives</b></h3>

    <ol style="justify-content: flex-start;">

        <li> To develop critical thinking and problem solving ability by exploring and proposing solutions to realistic/social problems.</li>

        <li>To Evaluate alternative approaches, and justify the use of selected tools and methods</li>

        <li>To emphasize learning activities those are long-term, inter-disciplinary and student-centric.</li>

        <li>To engage students in rich and authentic learning experiences.</li>

        <li>To provide every student the opportunity to get involved either individually or as a group so as to develop team skills and learn professionalism.</li>

        <li>To develop an ecosystem to promote entrepreneurship and research culture among the students</li>

    </ol>

    <br>

    <h3><b>Course Relevance: </b></h3>

    <p style="justify-content: flex-start;"> Project Centric Learning (PCL) is a powerful tool for students to work in

        areas of their choice and strengths. Along with course based projects, curriculum can be enriched

        with semester long Engineering Design and Development courses, in which students can solve

        socially relevant problems using various technologies from relevant disciplines.<br><br> The various

        socially relevant domains can be like Health care, Agriculture, Defense, Education, Smart City,

        Smart Energy and Swaccha Bharat Abhiyan. To gain the necessary skills to tackle such projects,

        students can select relevant online courses and acquire skills from numerous sources under

        guidance of faculty and enrich their knowledge in the project domain, thereby achieving project

        centric learning </p>

    <br>

    <h3><b> EDI Sample Case Studies : - </b></h3>

    <ol style="justify-content: flex-start;">

        <li>Design a deployable product for soil moisture detection</li>

       <li> Design a deployable product for temperature detection </li>

       <li>Design a deployable product smoke detection</li>

        <b>...not limited to.....</b>Faculty and students are free to include other area which meets the

        society requirements at larg

    </ol>

    <br>

    <h3><b>Course Outcomes: </b></h3><br>

    <h5><b>On completion of the course, learner will be able to–</b></h5>

    <ul>

        CO1: Identify the real life problem from societal need point of view <br>

        CO2: Choose and compare alternative approaches to select most feasible one <br>

        CO3: Analyze and synthesize the identified problem from technological perspective <br>

        CO4: Design the reliable and scalable solution to meet challenges <br>

        CO5: Evaluate the solution based on the criteria specified <br>

        CO6: Inculcate long life learning attitude towards the societal problems

    </ul>

    <br>

</div>

<!--DT TAB CONTENT-->

<div id="DT" class="tabcontent" style="padding: 10px;">

    <h2 style="text-align: center;">CS2229::Design Thinking</h2> <br>

    <h3><b>Course Objectives</b></h3>

    <ol style="justify-content: flex-start;">

        <li>To improve writing and research skills.</li>

        <li>To get knowledge about publications.</li>

        <li>To get knowledge about pentents.</li>

        <li>To know detailed about researching.</li>

    </ol>

    <br>

    <h3><b> EDI Sample Case Studies: </b></h3>

    <ol style="justify-content: flex-start;">

        <li>Research on your ideas and make it for publications</li>

    </ol>

    <br>

    <h3><b>Course Outcomes: </b></h3><br>

    <h5><b>On completion of the course, learner will be able to–</b></h5>

    <ul>

        CO1: Publish there paper in journals as well as in conferences.<br>

    </ul>

    <br>

</div>

<!-- CP TAB CONTENT-->

    <div id="CP" style="padding: 10px;" class="tabcontent">

        <h2 style="text-align: center;">CS4201::Cloud Computing</h2> <br>

        <h3><b>Course Objectives</b></h3>

        <ol style="justify-content: flex-start;">

            <li>To become familiar with cloud computing and its ecosystem</li>

            <li>To acquire basics of virtualization and its importance</li>

            <li>To evaluate in-depth analysis of Cloud Computing capabilities and its services.</li>

            <li>To configure and implement storage services.</li>

            <li>To analyze different cloud-based services to meet a set of given requirements.</li>

            <li>To design security aspects for cloud computing</li>

        </ol>

        <br>

        <h3><b>Text Books: </b></h3>

        <p style="justify-content: flex-start;">

            1. Cormen, Leiserson, Rivest and Stein “Introduction to Algorithms” ,PHI 3nd edition, 2009. ISBN

            81-203-2141-

            2.  Jon Kleinberg, Eva Tardos “Algorithm Design”, Pearson, 1st edition, 2005. ISBN 978-81-317-

            0310-6

            3. Dasgupta, Papadimitriu, Vazirani “Algorithms” McGraw-Hill Education; 1 edition (September

            13, 2006), ISBN-10: 9780073523408, ISBN-13: 978-0073523408

        <br><br>

        <!--CD CONTENT-->

        <h2 style="text-align: center;">CS3207::Compiler Design</h2> <br>

        <h3><b>Course Objectives</b></h3>

        <ol style="justify-content: flex-start;">

            <li>Understand the process of program execution cycle.</li>

            <li>Understand the translation process from High Level Languages to Machine Level Language.</li>

            <li>Know the syntax and semantic analysis approaches for efficient code/program verification. </li>

            <li>Learn the methods of code generation which helps for the optimization.</li>

            <li>Learn code optimization and runtime code synthesis.</li>

        </ol>

        <br><br>

        <h3><b>Text Books: </b></h3>

        <p style="justify-content: flex-start;">

            1. Aho, A.V., Lam, M.S., Sethi, R., & Ullman, J.D. (2006). Compilers: Principles, Techniques, and Tools, Addison Wesley, ISBN 978-81317-2101-8 (2nd Edition). <br>

            2. Cooper, K., & Torczon, L. (2011). Engineering a compiler. Morgan Kaufmann, ISBN 155860-698-X. <Br>

            3. Appel, A. W. (2004). Modern compiler implementation in C. Cambridge university press. </p>

        <br><br>

        <!-- DAAOA CONTENT -->

        <h2 style="text-align: center;">CS3205::Design and Analysis of Algorithms</h2> <br>

        <h3><b>Course Objectives</b></h3>

        <ol style="justify-content: flex-start;">

            <li>Students will gain understanding of asymptotic notations and will be able to apply suitable mathematical techniques to find asymptotic time and space complexities of algorithms.</li>

            <li>Students will develop the ability to formulate computational problems in the abstract and mathematically precise manner.</li>

            <li>Student will gain understanding of different algorithm design paradigms such as divide and conquer, dynamic programming, greedy, backtracking and will apply suitable paradigm for designing algorithms for computational problems</li>

            <li>Students will develop understanding of notions of NP-hardness and NP-completeness and their relationship with the intractability of decision problems.</li>

            <li>Students will design randomized, approximation algorithms for some computational problems</li>

            <li>Students will be able to incorporate algorithm design principles, data structures and provide efficient solutions for complex computational problems.</li>

        </ol>

        <br>

        <h3><b>Text Books: </b></h3>

        <p style="justify-content: flex-start;">

            1. Kumar, A., Web technologies, CRC press, 2019 <br>

            2. Gupta, R., Internet & Web Technologies, Engineering Handbook, 2019 <Br>

            3. Learning PHP, MySQL & JavaScript: With jQuery, CSS & HTML5, O’Reilly Media; 5th edition,

            2018 <br>

            4. Kohli, S., Web Technologies, PPB Publications, 2015</p>

        <br><br>

        <!-- WT CONTENT -->

            <h2 style="text-align: center;">CS3215::Web Technology</h2> <br>

            <h3><b>Course Objectives</b></h3>

            <ol style="justify-content: flex-start;">

                <li>To describe most commonly used HTML5 and CSS3 tags and attributes for website developmen.</li>

                <li>To associate event handling with HTML5 forms and CSS3 using javascript as a front-end

                    technology for website development</li>

                <li>To extend HTML5 and CSS3 and javascript front end technologies with PHP and Mysql as a

                    serverside and backend technologies for website development</li>

                <li>To simplify website development using REST API and Spring boot as server-side technologies.</li>

                <li>To build single page applications using REACT as a reusable UI component technology as clientside technology</li>

                <li>To assemble REACT as a front-end technology and Node js as a server-side technology to develop

                    enterprise applications</li>

            </ol>

            <br>

            <h3><b>Text Books: </b></h3>

            <p style="justify-content: flex-start;">

                1. Judith Hurwitz, R.Bloor, M.Kanfman, F.Halper, “Cloud Computing for Dummies”, Wiley,India. <br>

                2. Ronald Krutz and Russell Dean Vines, “Cloud Security”, Wiley-India <Br>

                3. Gautam Shroff. “Enterprise Cloud Computing”, Cambridge</p>

            <br>

        </div>

<script>

    function openPage(pageName,elmnt) {

    var i, tabcontent, tablinks;

    tabcontent = document.getElementsByClassName("tabcontent");

    for (i = 0; i < tabcontent.length; i++) {

        tabcontent[i].style.display = "none";

    }

    tablinks = document.getElementsByClassName("tablink");

    for (i = 0; i < tablinks.length; i++) {

    }

    document.getElementById(pageName).style.display = "block";

    }

    document.getElementById("defaultOpen").click();

</script>

</body>

</html>

**CSS code:**

\* {box-sizing: border-box}

body, html {

  height: 100%;

  margin: 0;

  font-family: Arial;

}

.tablink {

  background-color: #555;

  color: white;

  float: left;

  border: none;

  outline: none;

  cursor: pointer;

  padding: 14px 16px;

  font-size: 17px;

  width: 25%;

}

.tablink:hover {

  background-color: #777;

}

.tabcontent {

  display: none;

  padding: 30px 20px;

  height: 100%;

}







