**OBE Course Syllabus**

**1st Semester, A.Y. 2023-2024**

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| **Vision Statement:** | | | | An advanced and adaptive university pursuing quality education, lifelong gender – sensitive learning environment, responsive research – based community programs and transparent governance with sustainable resource generation by 2025 | | | | **Mission Statement:** | | To provide excellence in instruction, research, extension and production that magnifies W.I.S.D.O.M. in leadership through Total Quality Management System responsive to the challenges of the 21st century education. | | | | | | |
| **Core Values:**  *Educating People, Enriching Lives and Expanding Opportunities with:*  **W** – Wisdom for Truth and Knowledge  **I** – Ingenuity in Research, Extension and Production  **S** – Sustainability of Good Deeds  **D** – Dexterity in Management of Resources  **O** – Orchestrator of Good Practice in Achieving Goals, and  **M** – Magnanimity in Dealing with People and God’s Creation | | | | | | | | | | | | | | | | |
| **MSC Graduates’ Attributes (Exit or Culminating Outcomes)** | | | | | | | | | | | | | | | | |
| ***Every MSCian Graduate is -*** | | | | | | | | ***Institutional Outcomes: Graduates of Marinduque State College -*** | | | | | | | | |
| * ***M***orally upright, patriotic and law-abiding citizen * ***S***killed, competent and competitive professional * ***C***reative, innovative, resourceful and entrepreneurial individual * ***I***ntellectual lifelong learner and generator of new knowledge * ***A***r­­­­­­­­­­ticulate and reflective communicator * ***N***urturing and passionate leader | | | | | | | | * Demonstrate responsible citizenship, cultural pride, ecological preservation, and ethical decision-making. * Practice skills, abilities and competencies with precision and mastery at par with global standards. * Contribute to the improvement of quality of life by engaging in ingenious and productive activities. * Think critically, generate new knowledge, create and reengineer techniques and methodologies, and systematize progressive processes toward economic growth and sustainability. * Contemplate, communicate and exchange ideas and insights meaningfully and with care and proficiency. * Cultivate and foster justness, camaraderie, peace and unit amidst diversity. | | | | | | | | |
| **Quality Policy:** | | | Marinduque State College is a research-driven higher education institution committed to provide excellent services to its stakeholders the highest level of satisfaction through a quality management system imbued with its Core Values, guided by its Ten-Point Agenda and by adhering to globally-adopted quality standards.  *We endeavor to:*   1. Establish harmonious partnership with our stakeholders and clients in order to effect mutually beneficial results. 2. Maintain the highest degree of excellence and work ethics that respect the innate dedication and commitment of our employees and stakeholders. 3. Develop a culture of continual improvement in our processes. 4. Sustain effective, efficient and accessible delivery of goods and services to meet the needs of the College and to comply with applicable requirements. 5. Maintain accountable, transparent, consultative and participative leadership between and among employees and stakeholders in decision-making processes. | | | | | | | | | | | | | |
| **Course Title:** | Elective 1: Web Programming | | | | **Course Description:** | | It is an introduction to the design, creation and maintenance of web pages. Students will be able to evaluate and create quality web pages with accordance to the web design principles and standards using hypertext mark-up languages, scripting languages and web design tools and application. | | | | | **Course Code:** | ISE101 | **Credit Units:** | | 3 |
| **Course Prerequisites/(Co-requisites):** | | | | | | | Computer Programming 2 | | **Course Requirements:** | | Major Exam, Personal Portfolio, Project | | | | | |
| **Program Outcomes:** | | 1. Apply knowledge of business processes, computing, mathematics and social sciences appropriate to Information Systems. 2. Analyze a problem, identify and define the computing requirements with respect to organization. 3. Evaluate information systems in terms of general quality attributes and possible trade-off presented within the given requirement. 4. Design, implement, and evaluate information systems, processes, components, or programs; and to source cost-benefit efficient alternatives to meet desired needs, goals and constraints. 5. Use knowledge and understanding of enterprises in modeling and design of information systems. 6. Deploy and use effective skills, tools and techniques necessary for information systems practice. 7. Function effectively on teams to accomplish a common goal. 8. Communicate effectively with a range of audiences. 9. Recognize the legal, social, ethical and professional issues involved in the exploitation of computer technology and be guided by the adoption of appropriate professional, ethical and legal practices both in the local and global community. 10. Recognize the need for and engage in an independent and life-long learning, planning self-learning and improving performance as the foundation for on-going professional development. | | | | | | | | | | | | | | |
| **Course Intended Learning Outcomes (CILOs):** | | | | | | *At the end of the course, the learners can:* | | | **PO Link/s** | *At the end of the course, the learners can:* | | | | | **PO Link/s** | |
| 1. Explore trend in the 21st Century Web Designing concepts and wide variety of design motivations.  * Understand how Web Designing engages audience and the impact of modern web design ideas. * Demonstrate web design principles ang best practices in UI/UX | | | | | | | | | *a,b* | 1. Demonstrate skill in creating responsive and interactive websites.  * Familiarize with JavaScript concepts such as variables, arrays, conditionals, and loops and create computational formulas which utilizes logical operations and mathematical expressions to solve practical web design problems. * Design and implement interactive responses on web pages. | | | | | *b,d* | |
| 1. Demonstrate skill in web designing and create websites that complies with the latest World Wide Web Consortium (W3C) standards in coding, designing and implementation.  * Articulate principles of creating an effective web page, including an in-depth consideration of information architecture and how it affects the over-all design and impact. * Familiarize with graphic design principles that relate to web design and implement theories into practice. * Demonstrate proper web designing layouts, web images representations, text formatting and elements positioning. | | | | | | | | | *a,b* | 1. Publish web pages, directories, and asset content to a remote server using Github/Gitpages.  * Familiarize with web hosting services and domain name acquisition. * Demonstrate skill in updating and managing live website. | | | | | *f* | |
| 1. Demonstrate skill in creating modern responsive web design and creativeness in writing efficient cascades.  * Learn techniques in responsive web design, including media queries and Flexbox. * Evaluate web design problem, and recommend designing solutions that enable websites to adapt in various devices and screen sizes | | | | | | | | | *d,f* |  | | | | |  | |

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| **CILO No.** | **Essential Content** | **Time Allotment** | **Teaching – Learning Activities** | | | **Outcomes-Based Assessment** | **Educational Resources** |
| **Flexible / Distance / Remote** | | **Residential or Face to Face (F2F**) |
| ***Synchronous*** | ***Asynchronous*** |
|  | **Preliminaries** (VMGO, School Goals, Quality Policy, MSC Graduate Attributes) | *30 mins* | The teacher will meet with the students and hold a live chat to further discuss and answer questions about the class orientation.  During consultation hours, the student will send questions. | The teacher will use Google Classroom to distribute links and materials for the class orientation.  The student will read the VMGO, School Goals, Quality Policy, MSC Graduate Attributes, as well as the class policies, subject requirements, and rating system. | *-Sharing of thoughts with regards to VGMO and GAD* |  | *Student Handbook and Faculty Manual* |
| **Unit 1: Introduction to Web Design** | | | | | | | |
| **CILO 1** | *Concepts of UX/UI*   * *Design Principles* * *Design Techniques* * *Web Design Tools* * *Web Design Trends and Techniques* | 5 Hours | ***Instructor will:***   * *meet the students via Google Meet and hold a live chat to further discuss and answer students' questions about the topic posted in Google Classroom.*   ***Students will:***   * *Join the Google Meet Session* * *Participate on channel discussions* | ***Instructor will:***   * *Upload resources and session handout for the Concepts of UX/UI on Google Classroom* * *Assign Individual Task to Students: Landing Page Redesign*   ***Students will:***   * *Download the topic materials from google classroom* * *Complete the given task within the given timeframe and submit for evaluation* | ***Instructor will:***  *The teacher will engage the students in the new lesson by simulating the design approaches for different projects* | ***Individual Output:***  *UX Case Study* | *INTERACTION DESIGN beyond human-computer interaction by Helen Sharp | Yvonne Rogers | Jennifer Preece. 2019* |
| **CILO 2,3** | *Fundamentals of HTML*   * *Html Elements* * *Webpage Structure* | 5 Hours | ***Instructor will:***   * *meet the students via Google Meet and hold a live chat to further discuss and answer students' questions about the topic posted in Google Classroom.*   ***Students will:***   * *Join the Google Meet Session* * *Participate on channel discussions* | ***Instructor will:***   * *Upload resources and session handout for the HTML Fundamentals on Google Classroom* * *Assign Individual Task*   ***Students will:***   * *Download the topic materials from google classroom* * *Complete the given task within the given timeframe and submit for evaluation* | ***Instructor will:*** *engage the students in the new lesson by live coding session demonstrating how to use HTML and CSS in web development*  ***Students will:***  *Perform an individual hands-on assessment activity* | ***Laboratory Activity:*** *Webpage Structure Development* | *Learn Enough HTML, CSS and Layout to be Dangerous | Lee Donahoe and Michael Hartl. 2022*  [*Web Development & Design Foundations with HTML5*](http://192.168.1.100/cgi-bin/koha/opac-detail.pl?biblionumber=19128&query_desc=kw%2Cwrdl%3A%20Web%20Development)*|* [*Terry Ann Felke-Morris, Ed.D.*](http://192.168.1.100/cgi-bin/koha/opac-search.pl?q=au:Terry%20Ann%20Felke-Morris,%20Ed.D.) *2021* |
| **CILO 1,2,3** | *Fundamentals of CSS*   * *How browsers consume CSS* * *Syntax and terminology* * *Basics of colors, units, typography* | 5 Hours | ***Instructor will:***   * *meet the students via Google Meet and hold a live chat to further discuss and answer students' questions about the topic posted in Google Classroom.*   ***Students will:***   * *Join the Google Meet Session* * *Participate on channel discussions* | ***Instructor will:***   * *Upload resources and session handout for CSS Fundamentals on Google Classroom* * *Assign Individual Task*   ***Students will:***   * *Download the topic materials from google classroom* * *Complete the given task within the given timeframe and submit for evaluation* | ***Instructor will:*** *engage the students in the new lesson by live coding session demonstrating the usage of CSS and their usage*  ***Students will:***  *Perform an individual hands-on assessment activity* | ***Laboratory Activity:*** *Webpage Styling Using CSS* | *Learn Enough HTML, CSS and Layout to be Dangerous | Lee Donahoe and Michael Hartl. 2022*  *Web Development & Design Foundations with HTML5 | Terry Ann Felke-Morris, Ed.D. 2021* |
| **CILO 2** | *CSS: Unknown Fundamentals*   * *Unknown Fundamentals: Box Model* * *Unknown Fundamentals: Inheritance* * *BEM: Class Naming Convention* | 5 Hours | ***Instructor will:***   * *meet the students via Google Meet and hold a live chat to further discuss and answer students' questions about the topic posted in Google Classroom.*   ***Students will:***   * *Join the Google Meet Session* * *Participate on channel discussions* | ***Instructor will:***   * *Upload resources and session handout for CSS Unknown Fundamentals on Google Classroom* * *Assign Individual Task*   ***Students will:***   * *Download the topic materials from google classroom* * *Complete the given task within the given timeframe and submit for evaluation* | ***Instructor will:*** *engage the students in the new lesson by live coding session demonstrating best practices using CSS*  ***Students will:***  *Perform an individual hands-on assessment activity*  ***Students will:***  *Perform an individual hands-on assessment activity* | ***Laboratory Activity:*** *Blog Post Development implementing CSS Inheritance*  ***Performance Quiz:*** *CSS Card Component Style Implementation practicing BEM* | *Learn Enough HTML, CSS and Layout to be Dangerous | Lee Donahoe and Michael Hartl. 2022*  [*Web Development & Design Foundations with HTML5*](http://192.168.1.100/cgi-bin/koha/opac-detail.pl?biblionumber=19128&query_desc=kw%2Cwrdl%3A%20Web%20Development)*|* [*Terry Ann Felke-Morris, Ed.D.*](http://192.168.1.100/cgi-bin/koha/opac-search.pl?q=au:Terry%20Ann%20Felke-Morris,%20Ed.D.) *2021* |
| CILO 2, CILO 3 | *CSS: Context*   * *Formatting Context* * *Stacking Context* * *Content vs Layout* * *Containing Blocks* | 5 Hours | ***Instructor will:***   * *meet the students via Google Meet and hold a live chat to further discuss and answer students' questions about the topic posted in Google Classroom.*   ***Students will:***   * *Join the Google Meet Session* * *Participate on channel discussions* | ***Instructor will:***   * *Upload resources and session handout for CSS Unknown Fundamentals on Google Classroom* * *Assign Individual Task*   ***Students will:***   * *Download the topic materials from google classroom* * *Complete the given task within the given timeframe and submit for evaluation* | ***Instructor will:*** *engage the students in the new lesson by live coding session demonstrating best practices using CSS*  ***Students will:***  *Perform an individual hands-on assessment activity.*  *Perform a Group Performance: Website Development with Vanilla CSS* | ***Laboratory Activity:*** *Yahoo Messenger Form Redesign and Implementation using vanilla CSS*  ***Individual Performance Activity:*** *Landing Page Development using vanilla CSS*  ***Group Performance Activity:*** *Website Development using vanilla CSS* | *Learn Enough HTML, CSS and Layout to be Dangerous | Lee Donahoe and Michael Hartl. 2022*  [*Web Development & Design Foundations with HTML5*](http://192.168.1.100/cgi-bin/koha/opac-detail.pl?biblionumber=19128&query_desc=kw%2Cwrdl%3A%20Web%20Development)*|* [*Terry Ann Felke-Morris, Ed.D.*](http://192.168.1.100/cgi-bin/koha/opac-search.pl?q=au:Terry%20Ann%20Felke-Morris,%20Ed.D.) *2021* |
| CILO 2, CILO 3 | *CSS: Flexbox*   * *Understanding grow, shrink, and basis* * *A dozen common layouts with Flexbox* * *Responsiveness without media queries* | 5 Hours | ***Instructor will:***   * *meet the students via Google Meet and hold a live chat to further discuss and answer students' questions about the topic posted in Google Classroom.*   ***Students will:***   * *Join the Google Meet Session* * *Participate on channel discussions* | ***Instructor will:***   * *Upload resources and session handout for CSS Unknown Fundamentals on Google Classroom* * *Assign Individual Task*   ***Students will:***   * *Download the topic materials from google classroom* * *Complete the given task within the given timeframe and submit for evaluation* | ***Instructor will:*** *engage the students in the new lesson by live coding session demonstrating best practices using CSS Flexbox*  ***Students will:***  *Perform an individual hands-on assessment activity.* | ***Laboratory Activity:*** *Implementation of Responsive Web Layout* | *Learn Enough HTML, CSS and Layout to be Dangerous | Lee Donahoe and Michael Hartl. 2022*  [*Web Development & Design Foundations with HTML5*](http://192.168.1.100/cgi-bin/koha/opac-detail.pl?biblionumber=19128&query_desc=kw%2Cwrdl%3A%20Web%20Development)*|* [*Terry Ann Felke-Morris, Ed.D.*](http://192.168.1.100/cgi-bin/koha/opac-search.pl?q=au:Terry%20Ann%20Felke-Morris,%20Ed.D.) *2021* |
| **CILO 1,2,3** | *CSS Frameworks (Bootstrap, Tailwind)*   * *Typography & Utilities* * *CSS Components* * *Grid & Flexbox* * *Widgets* | 5 Hours | ***Instructor will:***   * *meet the students via Google Meet and hold a live chat to further discuss and answer students' questions about the topic posted in Google Classroom.*   ***Students will:***   * *Join the Google Meet Session* * *Participate on channel discussions* | ***Instructor will:***   * *Upload resources and session handout for CSS Frameworks on Google Classroom* * *Assign Individual Task*   ***Students will:***   * *Download the topic materials from google classroom* * *Complete the given task within the given timeframe and submit for evaluation* | ***Instructor will:*** *engage the students in the new lesson by live coding session demonstrating the usage of CSS Frameworks with Brainstorming activities exploring the various frameworks and their usage*  ***Students will:***  *Perform an individual hands-on assessment activity* | ***Laboratory Activity:*** *Implementing CSS Frameworks* | *Learn Enough HTML, CSS and Layout to be Dangerous | Lee Donahoe and Michael Hartl. 2022*  [*Web Development & Design Foundations with HTML5*](http://192.168.1.100/cgi-bin/koha/opac-detail.pl?biblionumber=19128&query_desc=kw%2Cwrdl%3A%20Web%20Development)*|* [*Terry Ann Felke-Morris, Ed.D.*](http://192.168.1.100/cgi-bin/koha/opac-search.pl?q=au:Terry%20Ann%20Felke-Morris,%20Ed.D.) *2021* |
| **MIDTERM EXAM** | | | | | | | |
| **CILO 4** | *Fundamentals of JavaScript*   * *Variables* * *Operators* * *Primitive Data Types* * *Comparisons and Conditions* * *Functions* * *Objects* | 10 Hours | ***Instructor will:***   * *meet the students via Google Meet and hold a live chat to further discuss and answer students' questions about the topic posted in Google Classroom.*   ***Students will:***   * *Join the Google Meet Session* * *Participate on channel discussions* | ***Instructor will:***   * *Upload resources and session handout for Fundamentals of JavaScript on Google Classroom* * *Assign Individual Task*   ***Students will:***   * *Download the topic materials from google classroom* * *Complete the given task within the given timeframe and submit for evaluation* | ***Instructor will:*** *engage the students in the new lesson by live coding session demonstrating the use of JavaScript in web development*  ***Students will:***  *Perform an individual hands-on assessment activity* | ***Laboratory Activity:*** *JavaScript – Fundamentals* | *JavaScript for Modern Web Development | Alok Ranjan:Abhilasha Sinha :Ranjit Battewad.2020* |
| **CILO 3** | *Modern JavaScript*   * *Control Flow* * *Objects and Built in Functions* * *Arrays and Methods* * *Functions and Methods* * *Document Object Model* | 10 Hours | ***Instructor will:***   * *meet the students via Google Meet and hold a live chat to further discuss and answer students' questions about the topic posted in Google Classroom.*   ***Students will:***   * *Join the Google Meet Session* * *Participate on channel discussions* | ***Instructor will:***   * *Upload resources and session handout for Modern JavaScript on Google Classroom* * *Assign Individual Task*   ***Students will:***   * *Download the topic materials from google classroom* * *Complete the given task within the given timeframe and submit for evaluation* | ***Instructor will:*** *engage the students in the new lesson by live coding session demonstrating best practices and various coding styles using JavaScript for Web Development*  ***Students will:***  *Perform an individual hands-on assessment activity.* | ***Laboratory Activity:*** *Advance JavaScript*  ***Individual Performance Activity:*** *Dynamic Webpage Development using JavaScript and DOM* | *JavaScript for Modern Web Development | Alok Ranjan:Abhilasha Sinha :Ranjit Battewad.2020* |
| **CILO 3** | *Object Oriented JavaScript*   * *The principles of OOP* * *Design Patterns* * *Classes and objects in JavaScript* * *Creating and manipulating objects* * *Polymorphism and dynamic dispatch* * *The async/await syntax and control flow* * *Error handling and exception handling with async/await* * *Promise.all and Promise.race* * *Writing unit tests for individual functions and components* | 15 Hours | ***Instructor will:***   * *meet the students via Google Meet and hold a live chat to further discuss and answer students' questions about the topic posted in Google Classroom.*   ***Students will:***   * *Join the Google Meet Session* * *Participate on channel discussions* | ***Instructor will:***   * *Upload resources and session handout for Object Oriented JavaScript on Google Classroom* * *Assign Individual Task*   ***Students will:***   * *Download the topic materials from google classroom* * *Complete the given task within the given timeframe and submit for evaluation* | ***Instructor will:*** *engage the students in the new lesson by live coding session demonstrating best practices and various coding styles using JavaScript for Web Development*  ***Students will:***  *Perform an individual hands-on assessment activity.* | ***Laboratory Activity:*** *Implementation of OOP Design Patterns*  ***Individual Performance Activity:*** *OOP Coding Challenge* | *JavaScript for Modern Web Development | Alok Ranjan:Abhilasha Sinha :Ranjit Battewad.2020* |
| **0FINALTERM EXAM** | | | | | | | |
| **Assessment System and Performance Standards**   * *At the end of the semester the student should obtain a grade of 3.0 in order to pass the course.* | | | | **Performance Criteria:**   * Quiz - 10% * Final Project - 20% * Activities & Performance - 30% * Major Exam - 40% | | | |
| **Institutional Policies:**   * *Policies and guidelines (specifically on attendance, absences, and student discipline) provided in the Student Handbook, as amended, and approved by the MSC – Board shall be implemented.* * *Health Guidelines for AY 2020-2021 set by the MSC Health Services Unit will be implemented and strictly followed in the event of face-to-face learning specifically:*   + *Continuous implementation of NO MASK, NO ENTRY policy in classrooms.*   + *It is recommended that any person not in good health condition should refrain from going to school or attending face to face classes.*   + *Continuous compliance to minimum public health standard such as:*     - * *Wearing of facemask and face shields*       * *1.5 meter – 2-meter social distancing*       * *Regular hand washing*       * *Regular disinfection and sanitation measures.* * *Deployment of available flexible learning and alternative modes of delivery will be exercised as per CHED Advisory No. 6-7. Thus, the students shall communicate with the teacher for their available resources and platforms in order to set appropriate learning arrangement for each individual.* | | | | **Class Policies:**   * *Student who was found cheating during examinations and/or quizzes will get an equivalent grade of 5.0 for that quiz/examination.* * *This course makes extensive use of electronic information from a host of sources. Students are expected to provide a citation for any work that is not original to the student (i.e., is someone else's idea or words).* * *Cellphones or any electronic device during class time is prohibited, except with permission of the instructor for emergency situation and for reasons directly related to class activity.* * *A student who has been absent may be excused upon presentation of a medical certificate to the instructors concerned for re – admission to his/her classes but not later than the first day of class after the student returned.* * *This course makes extensive use of electronic information from a host of sources. Students are expected to provide a citation for any work that is not original to the student (i.e., is someone else's idea or words).* | | | |
| **References:**   * *Learn Enough HTML, CSS and Layout to be Dangerous | Lee Donahoe and Michael Hartl. 2022* * [*Web Development & Design Foundations with HTML5*](http://192.168.1.100/cgi-bin/koha/opac-detail.pl?biblionumber=19128&query_desc=kw%2Cwrdl%3A%20Web%20Development)*|* [*Terry Ann Felke-Morris, Ed.D.*](http://192.168.1.100/cgi-bin/koha/opac-search.pl?q=au:Terry%20Ann%20Felke-Morris,%20Ed.D.) *2021* * *JavaScript for Modern Web Development | Alok Ranjan:Abhilasha Sinha :Ranjit Battewad.2020* * *COMPUTER PROGRAMING JavaScript, Python, HTML, SQL, CSS by William Alvin Newton | Steven Webber. 2019* * *INTERACTION DESIGN beyond human-computer interaction by Helen Sharp | Yvonne Rogers | Jennifer Preece. 2019* | | | | **Suggested Links and Readings:**   * *Beginning Responsive Web Design with HTML5 and CSS3* * *Web Development for beginners: Learn HTML CSS JavaScript step by step with this Coding Guide, Programming Guide for beginners* * *Learn to Code HTML and CSS: Develop and Style Websites|Shay Howe. 2014* * *HTML & CSS3. |John Duckett. 2013* * *JavaScript and JQuery: Interactive Front-End Web Development. |John Duckett.* * *2013* * *Web Design. |Jemma Development Group. 2013.* * *HTML,CSS, XHTML |Jemma Development Group. 2013* * *Responsive Web Design with HTML5 and CSS3 | Ben Frain. 2012.* * *HTML and CSS: Design and Build Websites |John Duckett. 2011.* * *www.w3schools.com* * *www.tutorialspoint.com* * *www.99designs.com/blog/trends/web-design-trends* * [*www.designmodo.com/web-design-trends-2020*](http://www.designmodo.com/web-design-trends-2020) * [*www.udemy.com*](http://www.udemy.com) * <https://developer.mozilla.org/en-US/docs/Learn> * <https://devdocs.io/> * <https://tympanus.net/codrops/css_reference/> * <https://www.freecodecamp.org/news/> | | | |

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