

21B33C309 – Web Programming

Module designation	Web Programming (Undergraduate)
Semester(s) in which the module is taught	3 rd
Person responsible for the module	Dr. Ir. Mustari Lamada, S.Pd., MT. Fathahillah, S.Pd., M.Eng. Andi Akram Nur Risal, S.Pd., M.Kom. Muhammad Fajar B, S.Pd., M.Cs. M. Miftach Fakhri, M.Pd. M. Syahid Nur Wahid, M.Pd.
Language	Indonesia – English
Relation to curriculum	This course is a compulsory course
Teaching methods	Lecture, Presentation, Practical
Workload (incl. contact hours, self-study hours)	CH: 09.00-17.00 Face to face: 3x50 minutes / week Independent Study: 3x50 minutes / week Structured assignment: 3x50 minutes / week
Credit points	3 SKS (equivalent 5.1 ECTS)
Required and recommended prerequisites for joining the module	Programming Algorithms, Basic Programming, Advanced Programming
Module objectives/intended learning outcomes	<p>Program Learning Outcomes (PLO)</p> <p>PLO 3: Demonstrate a responsible attitude towards work in their field of expertise independently</p> <p>PLO 5: Able to master the basics of algorithms and programming to help solve problems;</p> <p>PLO 7: Demonstrated ability in the field of computer system applications.</p> <p>PLO 10: Implement computer engineering methods with the ability to plan, analyze, design, implement, maintain and document computer systems with limited resources.</p> <p>Course Learning Objectives (CLO)</p> <p>This course discusses web technology and web programming including, namely HTML & HTML 5, CSS, PHP, MySQL Database, Java Script, and</p>

	<p>Content Management System to produce a WEB-based application that can be implemented in fields that require a web-based application WEB.</p> <p>Sub CLO:</p> <p>Sub-CLO 1: Able to explain the concept of HTML Basics and Structure</p> <p>Sub-CLO 2: Able to practice paragraphs, paragraph formatting and making lists in HTML, creating documents containing images and links, creating internal and external links, documents containing tables & creating documents using frames & creating forms</p> <p>Sub-CLO 3: Able to apply CSS concepts</p> <p>Sub-CLO 4: Able to apply JavaScript concepts</p> <p>Sub-CLO 5: Able to apply the concepts of the PHP programming language</p> <p>Sub-CLO 6 Able to design the database structure of a system</p> <p>Sub-CLO 7 Able to implement database connections and PHP language</p> <p>Sub-CLO-8 Able to apply CRUD functions (Create, Read, Update, Delete)</p> <p>Sub-CLO 9 Able to understand the concept of MVC (Model View Controller)</p> <p>Sub-CLO 10 Able to apply domain and hosting</p>
<p>Content</p>	<p>Students will learn about:</p> <ul style="list-style-type: none"> ● HTML Basics and Structure ● Creating Paragraphs, Paragraph Formatting, and creating lists in HTML, Creating Documents containing images and links, Creating internal and external links ● Create documents containing tables & create documents using frames & create forms ● Basic CSS concepts ● Use of CSS in HTML ● CSS Framework (bootstrap) ● JavaScript Application ● Use of JavaScript Operators & Use of JavaScript Loops ● Function Usage & JavaScript Array Usage & JavaScript Object Usage ● JavaScript Framework (jQuery) ● Basic PHP concepts ● Use of variables, operators, branching, repetition in PHP ● Database Usage in MySQL, MySQL & PHP Connection ● Basic MVC Concepts ● Introduction and Structure of the PHP Code Igniter Framework ● CRUD operations on Code Igniter ● Domains and Hosting
<p>Examination forms</p>	<p>Assessment Techniques: Exam, Presentation, Case Based Learning, Practical</p> <p>Assessment Forms: Assignment, Presentation Assessment, Practical Exam</p>
<p>Study and examination requirements</p>	<ul style="list-style-type: none"> ● Students have to inform the lecturer when they are not able to attend the class due to sickness etc ● Active in making projects by showing participation in making projects in class ● Able to present and answer questions that exist during project presentations

Reading List	<ul style="list-style-type: none">● Thomas A. Powel. 2010. HTML & CSS: The Complete Reference, Fifth Edition. The McGraw-Hill: United States.● Hidayatullah, Priyanto. Pemrograman Web, Penerbit Informatika, 2017.● Dwiartara, Loka. Kursus Web Development KOMPLIT, Ilmu Website.com● Abdul Kadir, Pemrograman Web Mencakup : HTML, CSS, JavaScript & PHP, Penerbit Andi, Yogyakarta, 2002.● Betha Sidik, Pemrograman Web Dengan HTML, Penerbit Informatika, Bandung, 2002.● Wang, Paul,. Katila, Sanda. 2003. An Introduction to Web Design+Programming. Brooks/Cole Book.
--------------	--