**SEMESTER LEARNING PLAN** 

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| **Courses** | | **Course Code** | **Cluster of Course** | **Credits** | **Semester in** | | **Editorial Date** |
| Web Programming | | TIK192 |  | 2 Credits (Practice) | 4 | | Juli 2017 |
| **Authorization** | | **Lecturer Team** | | **Courses Coordinator** | | **Head of Learning Center** | |
| **Syukhri, S.T. M.CIO**  **Rizkayeni Marta, S.Pd, M.Pd.T.**  **Nurindah Dwiyani, S.Pd, M.T** | | **Syukhri, S.T. M.CIO**  **NIP. 197806092001121002** | | **Ahmaddul Hadi, S.Pd,M.Kom**  **NIP. 197612092005011003** | |
| **Learning Outcomes (LO)** | **Learning Outcomes (LO)- University** | | | | | | |
| S8 | Internalizing academic values, norms and ethics | | | | | |
| S9 | Indicate the attitude responsible for work in his field of expertise independently. | | | | | |
| P3 | Able to formulate various real problems based on concepts related to the field of information and programming. | | | | | |
| KU1 | Able to apply logical, critical, systematic and innovative thinking in the context of the development or implementation of science and technology that pays attention to and applies humanities values by their areas of expertise. | | | | | |
| KU5 | Able to make informed decisions in the context of problem-solving in their areas of expertise, based on the results of information and data analysis. | | | | | |
| KU9 | Able to document, store, secure, and rediscover data to ensure validity and prevent plagiarization | | | | | |
| KK1 | Able to apply information technology in solving real problems in the era of industrial revolution 4.0. | | | | | |
| **Subject Learning Outcomes** | | | | | | |
| CPMK1 | Able to explain the concept of web programming and to make web client using PHP, HTML, basic syntax and syntax function | | | | | |
| CPMK2 | Able to explain the concept of creating interactive web programs and able to create interactive web pages with style sheet / CSS commands, as well as create reports and present the results of the program design. | | | | | |
| CPMK3 | Able to explain the concept of interactive web client programs and able to create interactive web pages with javascript commands, as well as create reports and present the results of the program design | | | | | |
| CPMK4 | Able to explain the concept of interactive web client programs and able to create interactive web pages with javascript commands, as well as create reports and present the results of the program design | | | | | |
|  | CPMK5 | Able to explain the concept of client-server web programs and able to create dynamic web pages with PHP programming language and make reports and present the results of the program design. | | | | | |
|  | CPMK6 | Able to explain the concept of client-server web programs and able to create web pages with PHP programming language connected to MySQL databases and make reports and present the results of program designs with databases | | | | | |
|  | CPMK7 | Able to design Information Systems on the needs of a simple organization with a previously learned programming language and able to implement offline, online and report and present it with good communication techniques | | | | | |
| **Course Description** | This course gives students an understanding of the concept of being able to create web pages with HTML commands using basic syntax and able to explain the functions of such syntax with good communication language. | | | | | | |
| **Learning materials** | 1. HTML 2. Server XAMPP 3. PHP MySQL | | | | | | |
| **References** | **Core References** | | | | | | |
| [1] Deitel. 2001 *Internet & WWW How to Programing*, Prentice Hall  [2]. Budi Raharjo. 2012. Modul Prmograman WEB. Modula: Bandung.  [3]. Bunafit Nugroho. 2004. PHP & MySQL Dengan Editor Dreamweaver MX. Andi Yogyakarta | | | | | | |
| **Supporting References** | | | | | | |
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| **Learning Media** | **Software Needs** | | | **Hardware Need** | | | |
| 1. Java 2 SDK → JDK-1\_5\_0\_07-windows-i586-p.exe) 2. Editor: NetBeans 6.5 and above | | | Laptop, LCD & Projector | | | |
| **Lecturer** | Web programming lecturer team | | | | | | |
| **Course Requirements** | No | | | | | | |

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| **Lecture to** | **Sub of Lecture Outcomes** | **Assessment Indicators** | **Criteria & Form of Assessment** | **Criteria & Form of Assessment**  **[ Estimated time]** | **Learning materials**  **[References]** | **Percentage of Assessment (%)** | | |
| **(1)** | **(2)** | **(3)** | **(4)** | **(5)** | **(6)** | **(7)** | | |
| 1-III | Able to explain the concept of web programming and able to create web client pages with HTML commands using basic syntax and able to explain the functions of such syntax with a good communication language. | 1. The concept of web programming  2. Completeness (tools) in creating web programs.  3. Basic elements of the web  4. HTML commands  a) Paragraph settings and line breaks  b) Formatting of text  c) Preformatted text  d) Tags  e) Text direction and quotation  f) Deleted, pasted text, and character entities  g) Unordered and ordered list  h) Nested list and definition list  i) Links, Frames, Tables, Forms, Pictures | Criteria:  Non-test form grading criteria rubric: Create a simple web program, present it  ● Practice report; | **lectures and discussions** **[TM: 1x(3x100”)]**  • Task-1: Create a simple web program, present it  **[BT+BM:(1)x(3x70”)]** | HTML | **10** | | |
| |  |  | | --- | --- | | IV | Mampu merancang Sistem Informasi pada keperluan suatu organisasi sederhana dengan bahasa pemogram yang telah dipelajari sebelumnya dan mampu mengimplementasikan secara offline maupun online dan melaporkan serta mempresentasikannya dengan teknik komunikasi yang baik | | Able to explain the concept of creating interactive web programs and able to create interactive web pages with style sheet / CSS commands, as well as create reports and present the results of the program design. | 1. Interactive web elements 2. The style sheet / CSS command. a) Background setting b) Font handling c) Border creation d) Margin setting e) Set the padding on table cells f) Using lists g) Foreground and background elements Change the appearance of the link | Criteria: Rubric grading criteria Non-test form:   * Practicum practice as well as the accuracy of web program results with CSS * Practice report; | **lectures and discussions [TM: 1x (3x100”)]**  Task-2: practicum as well as the accuracy of web program results with CSS **[BT+BM:(1)x(3x70”)]** | Style sheet/CSS | **15** | | |
| V-VI | Able to explain the concept of interactive web client programs and able to create interactive web pages with javascript commands, as well as create reports and present the results of the program design | 1. Scripts on the client-side  2. Javascript command  a) Basic Javascript  b) Variables, Functions  c) Branching and Turning  d) Object String, Date, Array  e) Browser handling  f) Images, Frames, Forms, and Client | Criteria: Rubric grading criteria Non-test form:  ● Practicum practice as well as the accuracy of web program results with CSS  ● Practice report; | * **lectures and discussions**   **[TM: 1x(3x100”)]**  Task-3: create a Student Biodata program using pre-defined basic visual components. **[BT+BM:(1)x(3x70”)]** | Javascript | **15** | | |
| VII-IX | Able to explain the concept of client-server web programs and able to create dynamic web pages with PHP programming language and make reports and present the results of the program design. | 1.Concept of Client-server based web programming.  2.Installing tools and completeness of Server with XAMPP Server Application.  3. Programming elements PHP.  4. Build web pages with PHP programming  a) History and Basic Syntax PHP  b) Variables, Operator  c) If... Else Statements  d) Switch, Looping/Looping e) Function  f) Forms and User Input  g) $\_GET, $\_POST, Date( )  h) Include File, File Handling, File Upload Cookies and Sessions | Criteria: Rubric grading criteria Non-test form:   * Practicum practice as well as the accuracy of web program results using Javascript * Practice report; | **lectures and discussions [TM: 1x(3x100”)]**  **●** Tasks-4: practicum as well as the accuracy of web program results using Javascript **[BT+BM:(1)x(3x70”)]** | XAMPP Server Application. | **5** | | |
| X-XII | Able to explain the concept of a client-server web program and able to create web pages with PHP programming language connected to MySQL database and make reports and present the results of program design with the database. | 1. Web programming concept with database   2. PHP programming with MySQL databases  a) Introduction to PHP MySQL  b) MySQL PHP Connection  c) Creating Databases and Tables  d) PHP MySQL Insert Into, Select  e) The Where Clause  f) Order By Keyword  g) Update, Delete From  h) Create a web application with a simple database | Criteria: Rubric grading criteria Non-test form: Practice making the accuracy of web program results using PHP and MySQL   * Practice reports; | * **lectures and discussions**   **[TM: 1x(3x100”)]**  ● Task-5: Accuracy of web program results using PHP and MySQL **[BT+BM:(1)x(3x70”)]** | PHP programming with MySQL databases |  | | |
| XIII-XV | Able to design information systems in the needs of a simple organization with a previously studied programming language and able to implement offline and online and report and present it with good communication techniques | 1. Field studies to various organizations around  2.Analyze the needs of the organization to the information system  3.System design and design  4.Implementation  5.Tesiting  6.Report presentation. | Criteria: Rubric grading criteria Non-test form:   * Practice Creating a simple web program, presenting it * Practice report; | **lectures and discussions [TM: 1x(3x100”)]**  **•** Tasks: Create a simple web program, present **[BT+BM:(1+1)x(3x60”)]** | System design and design | **5** | | |
| **17** | **UAS / Final Semester Evaluation** | | | | | |  | |

**Padang, juli 2017**

**Editor Team**

**Head of Learning Center**

**Ahmaddul Hadi, S.Pd,M.Kom**

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