



Universitas Negeri Surabaya
Faculty of Economics and Business
Digital Business Undergraduate Study Program

Document Code

SEMESTER LEARNING PLAN

Courses	CODE	Course Family	Credit Weight			SEMESTER	Compilation Date
website programming	6120906015	Compulsory Study Program Subjects	T=0	P=3	ECTS=4.77	3	August 1, 2022
AUTHORIZATION		SP Developer	Course Cluster Coordinator			Study Program Coordinator	
		Renny Sari Dewi, M.Kom., MCE, MOS	Renny Sari Dewi, M.Kom., MCE, MOS			Hujjatullah Fazlurrahman, S.E., MBA.	

Learning model Project Based Learning

Program Learning Outcomes (PLO)	PLO study program which is charged to the course																																																																																				
	Program Objectives (PO)																																																																																				
	PO - 1	Students are able to explain the concept and use of web technology [C2, A2] Students are able to explain concept and utilization of web technology [C2, A2]																																																																																			
	PO - 2	Students are able to explain the components and structure of HTML and PHP programming [C2, A2] Students are able to explain website components and HTML, PHP programming structure [C2, A2]																																																																																			
	PO - 3	Students are able to utilize Rapid Application Development (RAD) tools and Content Management System (CMS) customization [C3, P3, A2] Students are capable to utilize and customize RAD tools or CMS framework [C3, P3, A2]																																																																																			
	PLO-PO Matrix																																																																																				
	<table border="1" style="margin: auto;"> <tr><td style="width: 50px; height: 20px;">P.O</td></tr> <tr><td style="width: 50px; height: 20px;">PO-1</td></tr> <tr><td style="width: 50px; height: 20px;">PO-2</td></tr> <tr><td style="width: 50px; height: 20px;">PO-3</td></tr> </table>		P.O	PO-1	PO-2	PO-3																																																																															
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PO Matrix at the end of each learning stage (Sub-PO)																																																																																					
<table border="1" style="margin: auto;"> <tr> <td rowspan="2" style="width: 50px; height: 20px;">P.O</td> <td colspan="16" style="text-align: center;">Week</td> </tr> <tr> <td style="width: 15px;">1</td><td style="width: 15px;">2</td><td style="width: 15px;">3</td><td style="width: 15px;">4</td><td style="width: 15px;">5</td><td style="width: 15px;">6</td><td style="width: 15px;">7</td><td style="width: 15px;">8</td><td style="width: 15px;">9</td><td style="width: 15px;">10</td><td style="width: 15px;">11</td><td style="width: 15px;">12</td><td style="width: 15px;">13</td><td style="width: 15px;">14</td><td style="width: 15px;">15</td><td style="width: 15px;">16</td> </tr> <tr><td style="width: 50px; height: 20px;">PO-1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td style="width: 50px; height: 20px;">PO-2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td style="width: 50px; height: 20px;">PO-3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>		P.O	Week																1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	PO-1																	PO-2																	PO-3																
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Short Course Description Website technology is currently developing rapidly, so website development is also getting easier. Digital Business Undergraduate Study Program students will receive interesting learning material related to the development of web-based applications/information systems and content management systems (CMS). In developing web-based applications, students are taught about optimal use of rapid application development (RAD) tools. The approach used is project-based learning, where at the end of the lecture period, the final semester assessment is determined by assessing the portfolio of website development projects. (Website technology is currently growing rapidly, so website development is also getting easier. Digital Business Study Program students will receive interesting learning materials related to the development of web-based applications/information systems and content management systems (CMS). In developing web-based applications, students are taught about the optimal use of rapid application development (RAD) tools. The approach used is project-based learning, in which at the end of the lecture period, the final semester assessment is determined by an assessment of the website. development project portfolio.)

References	Main :
	<ol style="list-style-type: none"> 1. Larry Sanchez. 2019. Web Programming with HTML, CSS, Bootstrap, JavaScript, JQuery, PHP, and MySQL Second Edition: Amazon Digital Services LLC - KDP Print US 2. Budi Raharjo. 2018. Modul Pemrograman Web: HTML, PHP, & MySQL/MariaDB. Penerbit: Modula 3. Dewi, Renny S. 2022. Modul Praktikum Pemrograman Web - Penggunaan RAD Tools Untuk Pengembangan Web Cepat. Internal Use - FEB Unesa
	Supporters:
	<ol style="list-style-type: none"> 1. Panduan Instalasi dan konfigurasi XAMPP: https://www.apachefriends.org/download.html 2. Wordpress End-user Support: https://wordpress.org/support/

Supporting lecturer Dr. Nanang Hoesen Hidroes Abbrori, S.T., M.T.I.
 Riska Dhenabayu, S.Kom., M.M.
 Renny Sari Dewi, S. Kom., M. Kom., MCE., MOS.
 Anita Safitri, M. Kom.

Week-	Final abilities of each learning stage (Sub-PO)	Evaluation		Help Learning, Learning methods, Student Assignments, [Estimated time]		Learning materials [References]	Assessment Weight (%)
		Indicator	Criteria & Form	Offline (offline)	Online (online)		

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Students are able to understand the concepts, forms and tools for website development Students are able to understand concepts, forms, and website development tools.	<p>1.1.1. Students are able to explain again the big picture of a website </p> <p>1.1. Students are able to re-explain the big picture of a website technology</p> <p>2.1.2. Students are able to explain the forms of websites </p> <p>1.2. Students are able to explain the forms of websites</p> <p>3.1.3. Students are able to explain the purpose, objectives and types of web servers </p> <p>1.3. Students are able to explain the purpose, and types of web servers</p> <p>4.1.4. Students are able to compare websites and webservers </p> <p>1.4. Students are able to compare websites and web servers.</p>	<p>Criteria: Holistic rubric</p> <p>Form of Assessment : Participatory Activities</p>	Discussion, Lecture 3x50	Discussion, Lecture 3x50	<p>Material: Web Programming Reader: <i>Larry Sanchez. 2019. Web Programming with HTML, CSS, Bootstrap, JavaScript, JQuery, PHP, and MySQL Second Edition: Amazon Digital Services LLC - KDP Print US</i></p> <hr/> <p>Material: Web Programming Reader: <i>Budi Raharjo. 2018. Web Programming Module: HTML, PHP, & MySQL/MariaDB. Publisher: Modula</i></p>	2%
2	Students are able to explain the components and syntax structure of HTML and PHP Students are able to re-explain the components and structures of HTML and PHP syntax	<p>1.2.1. Students are able to differentiate HTML and PHP syntax </p> <p>2.1. Students are able to distinguish HTML and PHP syntax</p> <p>2.2.2. Students become familiar with data types, variables and operators in the PHP programming language </p> <p>2.2. Students are familiar with data types, variables, and operators in the PHP programming language</p>	<p>Criteria: Criteria: Holistic rubric Non-test form</p> <p>Form of Assessment : Participatory Activities</p>	Discussion, Lecture 3x50		<p>Material: Web Programming Reader: <i>Larry Sanchez. 2019. Web Programming with HTML, CSS, Bootstrap, JavaScript, JQuery, PHP, and MySQL Second Edition: Amazon Digital Services LLC - KDP Print US</i></p> <hr/> <p>Material: Web Programming Reader: <i>Budi Raharjo. 2018. Web Programming Module: HTML, PHP, & MySQL/MariaDB. Publisher: Modula</i></p> <hr/> <p>Material: Web Programming References: <i>Dewi, Renny S. 2022. Web Programming Practical Module - Using RAD Tools for Fast Web Development. Internal Use - FEB Unesa</i></p>	2%
3	Students are able to explain the components and syntax structure of HTML and PHP Students are able to re-explain the components and structures of HTML and PHP syntax	<p>3.1. Students are able to rewrite PHP syntax for addition, subtraction, multiplication, division of numbers, as well as storing them in variables with appropriate data types </p> <p>3.1. Students are able to rewrite PHP syntax for addition, subtraction, multiplication, division of numbers, and storing into variable(s) with the appropriate data types</p>	<p>Criteria: Holistic rubric</p> <p>Form of Assessment : Participatory Activities</p>	Discussion, Lecture 3x50	Discussion, Lecture 3 x 50	<p>Material: Web Programming Reader: <i>Larry Sanchez. 2019. Web Programming with HTML, CSS, Bootstrap, JavaScript, JQuery, PHP, and MySQL Second Edition: Amazon Digital Services LLC - KDP Print US</i></p> <hr/> <p>Material: Web Programming Reader: <i>Budi Raharjo. 2018. Web Programming Module: HTML, PHP, & MySQL/MariaDB. Publisher: Modula</i></p>	3%

4	Students are able to practice PHP programming code with the help of text editor tools Students are able to practice PHP programming code with the help of text editor tools	1.4.1. Students successfully install text editor tools 4.1. Students successfully installed text editor tools 2.4.2. Students successfully install and operate the webserver 4.2. Students successfully installed and can operate webserver	Criteria: Holistic rubric Form of Assessment : Practical Assessment	Discussion, Lecture 3x50	Discussion, Lecture 3x50	Material: Web Programming Reader: Larry Sanchez. 2019. <i>Web Programming with HTML, CSS, Bootstrap, JavaScript, JQuery, PHP, and MySQL Second Edition: Amazon Digital Services LLC - KDP Print US</i> Material: Web Programming References: Dewi, Renny S. 2022. <i>Web Programming Practical Module - Using RAD Tools for Fast Web Development. Internal Use - FEB Unesa</i> Material: Wordpress Documentation Library: Wordpress End-user Support: https://wordpress.org/...	5%
5	Students are able to practice PHP programming code with the help of text editor tools Students are able to practice PHP programming code with the help of text editor tools	5.1 Students are able to execute various PHP syntax functions into HTML lines 5.1 Students can execute several functions of PHP programming language into HTML web-view	Criteria: Holistic rubric Form of Assessment : Practical Assessment	Discussion, Lecture 3x50	Discussion, Lecture 3x50	Material: Web Programming Reader: Larry Sanchez. 2019. <i>Web Programming with HTML, CSS, Bootstrap, JavaScript, JQuery, PHP, and MySQL Second Edition: Amazon Digital Services LLC - KDP Print US</i> Material: Web Programming Reader: Budi Raharjo. 2018. <i>Web Programming Module: HTML, PHP, & MySQL/MariaDB. Publisher: Modula</i> Material: Web Programming References: Dewi, Renny S. 2022. <i>Web Programming Practical Module - Using RAD Tools for Fast Web Development. Internal Use - FEB Unesa</i>	5%
6	Students are able to design simple applications using Rapid Application Development (RAD) tools Students are able to design web-based apps using RAD tools	1.6.1 Students successfully install the RAD tools software 6.1 Students successfully install RAD tools software 2.6.2 Students are able to use the features in RAD tools 6.2 Students are able to use features in RAD tools 3.6.3 Students are able to create a database design project (connected to the Database Systems course) to be imported into the RAD 6.3 Students are able to create database designs project (linked to Database System course) to be imported into the RAD tool	Criteria: Criteria: Holistic rubric Non-test form Forms of Assessment : Project Results Assessment / Product Assessment, Practical Assessment	Computer practice, project simulation 3x50	Computer practice, project simulation 3x50	Material: Web Programming Reader: Budi Raharjo. 2018. <i>Web Programming Module: HTML, PHP, & MySQL/MariaDB. Publisher: Modula</i> Material: Web Programming References: Dewi, Renny S. 2022. <i>Web Programming Practical Module - Using RAD Tools for Fast Web Development. Internal Use - FEB Unesa</i>	5%

7	Students are able to build simple applications using Rapid Application Development (RAD) tools Students are able to develop web-based apps using RAD tools	1.7.1. Students are able to create a minimum of 4 tables consisting of master and detail (transaction) tables 7.1. Students are able to create at least 4 tables consisting of master and detailed tables (transactions) 2.7.2. Students are able to understand and create relationships between tables to become a comprehensive web-based application 7.2. Students are able to understand and create relationships between tables to become a comprehensive web-based application.	Criteria: Holistic rubric Forms of Assessment : Project Results Assessment / Product Assessment, Practical Assessment	computer practice, project simulation 3x50	computer practice, project simulation 3x50	Material: Web Programming Reader: Budi Raharjo. 2018. <i>Web Programming Module: HTML, PHP, & MySQL/MariaDB.</i> Publisher: Modula Material: Web Programming References: Dewi, Renny S. 2022. <i>Web Programming Practical Module - Using RAD Tools for Fast Web Development.</i> Internal Use - FEB Unesa Material: Wordpress Documentation Library: Wordpress End-user Support: https://wordpress.org/...	5%
8	Midterm exam . Mid Term Exam	Accuracy in presentation/demo of framework-based project completion	Criteria: Holistic rubric Forms of Assessment : Participatory Activities, Project Results Assessment / Product Assessment, Tests	3x50 application demo	3x50 application demo	Material: Web Programming References: Dewi, Renny S. 2022. <i>Web Programming Practical Module - Using RAD Tools for Fast Web Development.</i> Internal Use - FEB Unesa Material: Wordpress Documentation Library: Wordpress End-user Support: https://wordpress.org/...	20%
9	Students are able to customize the Content Management System (CMS) with plugins and widgets Students are able to customize the Content Management System (CMS) framework with plugins and widgets	1.9.1 Students are able to install CMS correctly on the webserver 9.1 Students are able to properly install CMS on the webserver 2.9.2 Students are able to define the features of CMS 9.2 Students are able to define features in CMS framework	Criteria: Holistic rubric Form of Assessment : Participatory Activities	Discussion, Lecture, Computer practice 3x50	Discussion, Lecture, Computer practice 3x50	Material: Web Programming Reader: Budi Raharjo. 2018. <i>Web Programming Module: HTML, PHP, & MySQL/MariaDB.</i> Publisher: Modula Material: XAMPP and CMS Wordpress Library: XAMPP Installation and configuration guide: https://www.apachefriends.org/...	2%

10	Students are able to customize the Content Management System (CMS) with plugins and widgets Students are able to customize the Content Management System (CMS) framework with plugins and widgets	1.10.1 Students are able to explain the selection of themes, plugins and widgets 10.1 Students are able to explain the selection of themes, plugins, and widgets 2.10.2 Students are able to practice CMS customization by selecting certain themes, plugins and widgets. 10.2 Students are able to customize the CMS framework by selecting certain themes, plugins, and widgets.	Criteria: Criteria: Holistic rubric Non-test form Forms of Assessment : Participatory Activities, Project Results Assessment / Product Assessment, Practical Assessment	Discussion, Lecture, Computer practice 3x50	Discussion, Lecture, Computer practice 3x50	Material: Wordpress Documentation Library: Wordpress End-user Support: https://wordpress.org/... Material: Themes, plugins, widgets Library: XAMPP Installation and configuration guide: https://www.apachefriends.org/...	2%
11	Students are able to create simple websites to solve business/organizational problems Students are able to create simple websites to solve business/organization problems	1.11.1 Students are able to analyze user needs 11.1 Students are able to analyze user needs 2.11.2 Students are able to design website interfaces (personal blogs or company profiles) 11.2 Students are able to design website interfaces (personal blog or company profile)	Criteria: Holistic rubric Forms of Assessment : Participatory Activities, Project Results Assessment / Product Assessment, Practical Assessment	Discussion, Lecture, Computer practice 3x50	Discussion, Lecture, Computer practice 3x50	Material: Web Programming Reader: Budi Raharjo. 2018. <i>Web Programming Module: HTML, PHP, & MySQL/MariaDB</i> . Publisher: Modula Material: Web Programming References: Dewi, Renny S. 2022. <i>Web Programming Practical Module - Using RAD Tools for Fast Web Development</i> . Internal Use - FEB Unesa Material: Wordpress Documentation Library: Wordpress End-user Support: https://wordpress.org/...	4%
12	Students are able to create simple websites to solve business/organizational problems Students are able to create simple websites to solve business/organization problems	1.12.1 Students are able to communicate with users to convey a customized CMS website design 12.1 Students are able to communicate with users to convey the design of the CMS customized website 2.12.2 Students are able to customize the CMS by selecting themes, plugins and widgets according to user needs 12.2 Students are able to customize the CMS by selecting themes, plugins and widgets according to user needs	Criteria: Holistic rubric Forms of Assessment : Project Results Assessment / Product Assessment, Practical Assessment	Discussion, Lecture, Computer practice 3x50	Discussion, Lecture, Computer practice 3x50	Material: Wordpress Documentation Library: Wordpress End-user Support: https://wordpress.org/...	5%

13	Students are able to migrate locally customized websites so that they can be accessed via the internet Students are able to migrate the local customized website to become accessible via the internet	13.1 Students are able to practice security features (login, logout, captcha, privilege access) 13.1 Students are able to practice security features (login, logout, captcha, privileged access)	Criteria: Criteria: Holistic rubric Non-test form Forms of Assessment : Project Results Assessment / Product Assessment, Practical Assessment	Discussion, Lecture, Computer practice 3x50	Discussion, Lecture, Computer practice 3x50	Material: Wordpress Documentation Library: Wordpress End-user Support: https://wordpress.org/...	5%
14	Students are able to migrate locally customized websites so that they can be accessed via the internet Students are able to migrate the local customized website to become accessible via the internet	14.1 Students are able to add additional features that support website internationalization (bilingual) 14.1 Students are able to add additional features that support website internationalization (bi-lingual)	Criteria: Criteria: Holistic rubric Non-test form Forms of Assessment : Project Results Assessment / Product Assessment, Practical Assessment	Discussion, Lecture, Computer practice 3x50	Discussion, Lecture, Computer practice 3x50	Material: Web Programming Reader: Budi Raharjo. 2018. Web Programming Module: HTML, PHP, & MySQL/MariaDB. Publisher: Modula Material: Web Programming References: Dewi, Renny S. 2022. Web Programming Practical Module - Using RAD Tools for Fast Web Development. Internal Use - FEB Unesa Material: Wordpress Documentation Library: Wordpress End-user Support: https://wordpress.org/...	5%
15	Students are able to migrate locally customized websites so that they can be accessed via the internet Students are able to migrate the local customized website to become accessible via the internet	15.1 Students are able to explain the completion of the website development project to stakeholders 15.1 Students are able to pitch the completion of website development projects to stakeholders	Criteria: Criteria: Holistic rubric Non-test form Forms of Assessment : Project Results Assessment / Product Assessment, Practical Assessment	Discussion, Lecture, Computer practice 3x50	Discussion, Lecture, Computer practice 3x50	Material: Web Programming Reader: Budi Raharjo. 2018. Web Programming Module: HTML, PHP, & MySQL/MariaDB. Publisher: Modula Material: Web Programming References: Dewi, Renny S. 2022. Web Programming Practical Module - Using RAD Tools for Fast Web Development. Internal Use - FEB Unesa Material: Wordpress Documentation Library: Wordpress End-user Support: https://wordpress.org/...	5%
16			Criteria: Accuracy in demonstrating features on the website via the internet Forms of Assessment : Project Results Assessment / Product Assessment, Portfolio Assessment, Tests	3x50 website demo	3x50 website demo	Material: Wordpress customization Library: Wordpress End-user Support: https://wordpress.org/...	25%

Evaluation Percentage Recap: Project Based Learning

No	Evaluation	Percentage
1.	Participatory Activities	17.67%
2.	Project Results Assessment / Product Assessment	32%
3.	Portfolio Assessment	8.33%
4.	Practical Assessment	27%
5.	Test	15%
		100%

Notes

- Learning Outcomes of Study Program Graduates (PLO - Study Program)** are the abilities possessed by each Study Program graduate which are the internalization of attitudes, mastery of knowledge and skills according to the level of their study program obtained through the learning process.
- The PLO imposed on courses** are several learning outcomes of study program graduates (CPL-Study Program) which are used for the formation/development of a course consisting of aspects of attitude, general skills, special skills and knowledge.
- Program Objectives (PO)** are abilities that are specifically described from the PLO assigned to a course, and are specific to the study material or learning materials for that course.
- Subject Sub-PO (Sub-PO)** is a capability that is specifically described from the PO that can be measured or observed and is the final ability that is planned at each learning stage, and is specific to the learning material of the course.
- Indicators for assessing** ability in the process and student learning outcomes are specific and measurable statements that identify the ability or performance of student learning outcomes accompanied by evidence.
- Assessment Criteria** are benchmarks used as a measure or measure of learning achievement in assessments based on predetermined indicators. Assessment criteria are guidelines for assessors so that assessments are consistent and unbiased. Criteria can be quantitative or qualitative.
- Forms of assessment:** test and non-test.

8. **Forms of learning:** Lecture, Response, Tutorial, Seminar or equivalent, Practicum, Studio Practice, Workshop Practice, Field Practice, Research, Community Service and/or other equivalent forms of learning.
9. **Learning Methods:** Small Group Discussion, Role-Play & Simulation, Discovery Learning, Self-Directed Learning, Cooperative Learning, Collaborative Learning, Contextual Learning, Project Based Learning, and other equivalent methods.
10. **Learning materials** are details or descriptions of study materials which can be presented in the form of several main points and sub-topics.
11. **The assessment weight** is the percentage of assessment of each sub-PO achievement whose size is proportional to the level of difficulty of achieving that sub-PO, and the total is 100%.
12. TM=Face to face, PT=Structured assignments, BM=Independent study.