

# COURSE PLANNING (RPKPS) UNIVERSITAS MULTIMEDIA NUSANTARA

#### **VALIDATION PAGE**

Course Name : Web Design and Development

Course Code : IS556

Course Coordinator: Monika Evelin Johan, S.Kom., M.M.S.I.

Team of Lecturers :

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On behalf of the team,

Date: 01-02-2023

Approved by

Has been checked and considered comply to UMN standard

Date:

Date:

UNIVERSITAS MULTIMEDIA NUSANTARA

Monika Evelin Johan, S.Kom.M.M.S.I. Course Coordinator Ririn Ikana Desanti, S.Kom.M.Kom. Head of Department/Program (full name with title)
Internal Quality Assurance Office

INFORMATION SYSTEM
FACULTY of INFORMATION AND TECHNOLOGY
ACADEMIC YEAR 2022/2023



## COURSE PLANNING (RPKPS) UNIVERSITAS MULTIMEDIA NUSANTARA

COURSE NAME : Web Design and Development CODE / CREDIT : IS556/ 3 (2 Theory + 1 Lab)

SEMESTER : 2

PREREQUISITE :

COURSE STATUS : Mandatory/elective

#### A. COURSE DESCRIPTION

This course provides basic knowledge about the development of web-based information system applications from the client and server sides. Client-side application development discusses how to create responsive web interfaces by learning HTML, CSS and JavaScript and using open-source libraries and frameworks such as jQuery and Bootstrap. The development from the server side discusses how to connect the display on the client side with the database, so that it can perform the process of Create, Retrieve, Update and Delete data using back-end programming language.

#### **B. LEARNING OUTCOME**

#### B.1. Program Expected Learning Outcomes (ELO) Related to the Course

IQF Level: 6

ELO B	Have the ability to simplify complex problems thus providing a better understandin	ıg
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ELO D Have the ability to design systems or applications using the best supporting tools or frameworks

ELO H Have the ability to communicate effectively

ELO J Have the awareness to adapt new knowledge

#### **B.2.** Course Learning Outcomes (CLO)

After passing this course, students will be able to use the skills and knowledge from this course as a WEB APPLICATION DEVELOPER in intermediate level with competences as follow:

ELO B	CLO 1	Students are able to <b>analyze</b> client-side and server-side application (C4)		-
ELO D	CLO 2	Students are able to <b>build</b> web appliation as a solution to problem solving (C6)	R	
ELO H	CLO 3	Students are able to <b>simulate</b> the final result of their final project (C6)		
ELO J	CLO 4	Students are able to <b>implement</b> new tools and or technology (C3)		

#### **B.3.** Course Sub Learning Outcomes (Sub-CLO)

	SUB-CLO 01	Students are able to explain about web concepts and technologies. (C2);	Week 1
	SUB-CLO 02	Students are able to build web page structures using HTML5. (C3);	
	SUB-CLO 03	Students can analyze web application development needs and able to design user interface layouts using CSS on web pages. (C4);	Week 2
	SUB-CLO 04	Students are able to use JavaScript to add logic to web pages and utilize the concept of Document Object Model (DOM). (C4);	Week 3
	SUB-CLO 05	Students are able to use jQuery to produce interactive web pages and build responsive web pages using CSS framework (for example: Bootstrap). (C5);	Week 4
CLO 1	SUB-CLO 06	Students are able to add and configure some multimedia objects on a web page. (C4);	Week 5
CLO 1	SUB-CLO 07	Students are able to design relational databases to build an information system application based on an analysis of organizational, business or research interests. (C5);	Week 6, Week 7
	0110 01 0 00	Students are able to use server-side programming language (PHP) to perform the Create, Retrive, Update and Delete (CRUD) processes on	
	SUB-CLO 08	relational database. (C5);	
	SUB-CLO 09	Students are able to take advantage of Cookies, Session and string encryption to establish user authentication in information system applications. (C5);	Week 8
	SUB-CLO 10	Students are able to build application to validate and upload files to the server (C5);	Week 9
			Week 10
CLO 2	SUB-CLO 11	Students are able to build web application using certain framework for web development (C6);	Week 11
CLU Z			Week 12
	SUB-CLO 12	Students are able to apply several techniques related to website promotion such as utilizing search engine optimization (C6);	Week 13
CLO 4	SUB-CLO 13	Students are able to build web applications based on the design, analysis and evaluation of needs. (C3);	Week 14
CLO 3	SUB-CLO 14	Students are able to demo web applications that have been built based on design, analysis, and evaluation of needs. (C6).	

#### C. LEARNING ANALYSIS

-Figure is attached-

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#### D. TOPICS

- 1.Introduction to Web Technology (Request-Response Cycle & HTML5)
- 2.Cascading Style Sheet (CSS)
- 3.Responsive Web Design

- 4. Document Object Model (DOM) & JavaScript Events
- 5. JavaScript Library: jQuery
- 6. Web Framework: Bootstrap
- 7.Database using MySQL
- 8.Introduction to PHP
- 9.CRUD (Create, Retrive, Update, Delete) on relational database
- 10. Validation & File Upload
- 11. User Authentication: Cookies, Session, encryption
- 12. Search Engine Optimization



#### E. EVALUATION

- 1. Attending lecture punctually is mandatory. Students will be considered absent if coming over the specified time.
- 2. Attending 14 lectures is mandatory. Attending minimum of 11 from 14 meetings is required to be able to take the final test.
- 3. Final grade is determined by following components:

a. Midterm Test : 30%b. Final Test : 40%c. Assignment, Paper, & presenting : 30%

#### **FINAL GRADING:**

Score	Alphabetical Grade	Numerical Grrade	Remarks
85 – 100	А	4	Excellent
80 – 84,99	A-	3,7	Good
75 – 79,99	B+	3,3	
70 – 74,99	В	3,0	IVI U L I
65 – 69,99	B-	2,7	Satisfactory
60 – 64,99	C+	2,3	
55 – 59,99	С	2,0	



45 – 54,99	D	1,0	Poor
0 – 44,99	Е	0	Very Poor
	F	0	Academic Violation

#### F. REFERENCE AND RESOURCES

#### -Main-

- 1. Felke-Morris, T. A. (2018). Web Development and Design Foundations with HTML5, Global Edition (8th ed.). Pearson International Content. https://umnlibrary.vitalsource.com/books/9781292164083
- 2. Robins, J. N. (2018). Learning Web Design: A Beginner's Guide to HTML, CSS, JavaScript, and Web Graphics 5th Ed. O'Reilly Media.

#### -Additional/Supporting-

CLO	SUB-CLO		THEORY		LAB		
CLO	300-020	Task/Project	Midterm Test	Final Test	Task/Project	Midterm Test	Final Test
CLO 1	SUB-CLO 01: Students are able to explain about web concepts and technologies. (C2)  SUB-CLO 02: Students are able to build web page structures using HTML5. (C3)	Quiz 1 (2%)			Lab 1 (2%)		
	SUB-CLO 03: Students can analyze web application development needs and able to design user interface layouts using CSS on web pages. (C4)	Quiz 2 (2%)	Mid-Exam (30%)		Lab 2 (2%)	Mid-Exam (30%)	
	SUB-CLO 04: Students are able to use JavaScript to add logic to web pages and utilize the concept of Document Object Model (DOM). (C4)	Quiz 3 (2%)	R A		Lab 3 (2%)	(0070)	
	SUB-CLO 05: Students are able to use jQuery to produce interactive web pages and build responsive web pages using CSS framework (for example: Bootstrap). (C5)	Quiz 4 (2%)			Lab 4 (2%)		

	TOTAL	30%	30%	40%	30%	30%	40%
CLO 3	SUB-CLO 14: Students are able to demo web applications that have been built based on design, analysis, and evaluation of needs. (C6)	(5%)	<b>A C</b>	(40%)	(10%)		(40%)
CLO 4	SUB-CLO 13: Students are able to build web applications based on the design, analysis and evaluation of needs. (C3)	Presentation		Final Project	Lab 14 Demo Project		Final Project
	SUB-CLO 12: Students are able to apply several techniques related to website promotion such as utilizing search engine optimization (C6)	Task 4 (3%)			Lab 13 (3%)		
	(C6)	(5%)			(3%) Lab 12 (3%)		
CLO 2	SUB-CLO 11: Students are able to build web application using certain framework	Task 3 (Group Task)			Lab 10 (3%) Lab 11		
	SUB-CLO 10: Students are able to build application to validate and upload files to the server (C5)				Lab 9 (2%)		
	SUB-CLO 09: Students are able to take advantage of Cookies, Session and string encryption to establish user authentication in information system applications. (C5);	Task 2 (3%)			Lab 8 (2%)		
	SUB-CLO 08: Students are able to use server-side programming language (PHP) to perform the Create, Retrive, Update and Delete (CRUD) processes on relational database. (C5)	Task 1 (2%)			Lab 7 (2%)		
	SUB-CLO 07: Students are able to design relational databases to build an information system application based on an analysis of organizational, business or research interests. (C5)	Quiz 6 (2%)			Lab 6 (2%)		
	SUB-CLO 06: Students are able to add and configure some multimedia objects on a web page. (C4)	Quiz 5 (2%)			Lab 5 (2%)		

M U L T I M E D I A N U S A N T A R A

#### G. WEEKLY LESSON PLAN

	0	T 0				Assesment		Ref.
Week	Course Sub-Learning Outcomes (Sub-CLO)	Topics & Sub-topics	Learning Methods and Activities	Timing	Assessment type and Grading System	Indicators	Weight	
1.	SUB-CLO 01: Students are able to explain about web concepts and technologies. (C2)  SUB-CLO 02: Students are able to build web page structures using HTML5. (C3)	Topics: Web Concepts and Technologies  Sub-topics: 1. Introduction to web technologies 2. Web concepts 3. Introduction to HTML 4. Webpage structure using HTML 5	Learning Methods: (Kuliah/Praktikum/Seminar) Lecture and Lab  Activities: Pre-Class Material Reading In Class Material Presentation Discussion: Q&A  Post Class Quiz and teamwork  Lab Pre-class: module reading In-class: Practicum Post-class: Continue unfinished work	1x30' 2x50' 1x40' 1x35' 1x100' 1x35'	Assessment: Quiz 1 Lab  Grading system: Rubric	Quiz - Correctness (100%)  Lab - Perform all the steps in the lab Module (50%) - The results of the script that is executed according to the purpose (50%)	2%	1 [pg. 19 – 80]; 2
2.	SUB-CLO 03: Students can analyze web application development needs and able to design user interface layouts using CSS on web pages. (C4)	Topics: Designing Web interface using CSS  Sub-topics: 1. Analysis of web application development requirements 2. Designing user interface on web pages. 3. Webpage layout using CSS	Learning Methods: (Kuliah/Praktikum/Seminar) Lecture and Lab  Activities: Pre-Class Material Reading  In Class Material Presentation Discussion: Q&A  Post Class Quiz and teamwork  Lab Pre-class: module reading In-class: Practicum Post-class: Continue unfinished work	1x30' 2x50' 1x40' 1x35' 1x100' 1x35'	Assessment: Quiz 2 Lab  Grading system: Rubric	Quiz - Correctness (100%)  Lab - Perform all the steps in the lab Module (50%) - The results of the script that is executed according to the purpose (50%)	2%	1 [pg. 99 – 452, 470 - 479]

	Course Sub-Learning Topics &					Assesment		Ref.
Week	Outcomes (Sub-CLO)	Sub-topics	Learning Methods and Activities	Timing	Assessment type and Grading System	Indicators	Weight	
3.	SUB-CLO 04: Students are able to use JavaScript to add logic to web pages and utilize the concept of Document Object Model (DOM). (C4)	Topics: Web Development using JavaScript  Sub-topics: 1. Introduction to JavaScript 2. Additional logic using JavaScript 3. Document Object Model (DOM) 4. JavaScript Events	Learning Methods: (Kuliah/Praktikum/Seminar) Lecture and Lab  Activities: Pre-Class Material Reading In Class Material Presentation Discussion: Q&A  Post Class Quiz and teamwork  Lab Pre-class: module reading In-class: Practicum Post-class: Continue unfinished work	1x30' 2x50' 1x40' 1x35' 1x100' 1x35'	Assessment: Quiz 3 Lab  Grading system: Rubric	Quiz - Correctness (100%)  Lab - Perform all the steps in the lab Module (50%) - The results of the script that is executed according to the purpose (50%)	2%	1 [pg. 516- 517, 590- 599]
4.	SUB-CLO 05: Students are able to use jQuery to produce interactive web pages and build responsive web pages using CSS framework (for example: Bootstrap). (C5)	Topics: Interactive Web Page using jQuery  Sub-topics: 1. jQuery for interactive webpage 2. Bootstrap for responsive webpage	Learning Methods: (Kuliah/Praktikum/Seminar) Lecture and Lab  Activities: Pre-Class Material Reading  In Class Material Presentation Discussion: Q&A  Post Class Quiz and teamwork  Lab Pre-class: module reading In-class: Practicum	1x30' 2x50' 1x40' 1x35' 1x100'	Assessment: Quiz 4 Lab  Grading system: Rubric	Quiz - Correctness (100%)  Lab - Perform all the steps in the lab Module (50%) - The results of the script that is executed according to the purpose (50%)	2%	1 [pg. 619- 633];

	Course Sub Learning	uh Learning Tonics 9			Assesment			
Week	Course Sub-Learning Outcomes (Sub-CLO)	Topics & Sub-topics	Learning Methods and Activities	Timing	Assessment type and Grading System	Indicators	Weight	
	SUB-CLO 06: Students are	Topics:	Post-class: Continue unfinished work  Learning Methods: (Kuliah/Praktikum/Seminar)	1x35'	Assessment:	Quiz	2%	1
	able to add and configure some multimedia objects on a	Web Multimedia  Sub-topics:	Lecture and Lab  Activities:		Quiz 5 Lab	- Correctness (100%)		[pg. 491- 505]
	web page. (C4)	Web multimedia and interactivity	Pre-Class Material Reading In Class Material Presentation	1x30'	Grading system: Rubric	Lab - Perform all the steps in the lab Module (50%) - The results of the	2%	
5.			Discussion: Q&A  Post Class	2x50'		script that is executed according to the purpose (50%)		
			Quiz and teamwork  Lab	1x40'				
			Pre-class: module reading In-class: Practicum	1x35' 1x100'				
			Post-class: Continue unfinished work	1x35'				
		Topics:	Learning Methods: (Kuliah/Praktikum/Seminar)		Assessment:	Quiz	2%	
	SUB-CLO 07: Students are	Server-Side Web	Asyncron & Lab		Quiz	- Correctness (100%)		
	able to design relational	Analysis, Design and Development	Activities:		Task 1 Lab	Task 1		
	databases to build an	Development	Pre-Class		Lau	- Code is correct and		
	information system application based on an analysis of	Sub-topics:	Material Reading	1x30'		executable (60%)	2%	
	organizational, business or	Analysis of organization	In Class		Grading system: Rubric	- Originality (30%) - Creativity (10%)		
6.	research interests. (C5)	requirement	Material Presentation		Rubiic	- Cleativity (1070)		
	research interests. (OS)	2. Relational	Discussion: Q&A	2x50'		Lab	2%	
		Database 3. Server-side	Post Class			Perform all the steps     in the lab Module		
	SUB-CLO 08: Students are	programming	Quiz and teamwork	1x40'		(50%)		
	able to use server-side	language				- The results of the		
	programming language (PHP)	(PHP)	Lab Pre-class: module reading	1x35'		script that is executed according to the		
	to perform the Create,		In-class: Practicum	1x100'		purpose (50%)		

	Carrier Sub-Lagration	Tanina 0				Assesment		Ref.
Week	Course Sub-Learning Outcomes (Sub-CLO)	Topics & Sub-topics	Learning Methods and Activities	Timing	Assessment type and Grading System	Indicators	Weight	
	Retrieve, Update and Delete (CRUD) processes on relational database. (C5)	CRUD from relational database	Post-class: Continue unfinished work	1x35'				
7.	SUB-CLO 07: Students are able to design relational databases to build an information system application based on an analysis of organizational, business or research interests. (C5)  SUB-CLO 08: Students are able to use server-side programming language (PHP) to perform the Create, Retrieve, Update and Delete (CRUD) processes on relational database. (C5)	Topics: Implementing Client- Side and Server-Side Design and Development on a Web Page  Sub-topics:  1. Manipulation of date and time information of data in database. 2. Develop a form by implementing dynamic web and CRUD on the database.	Learning Methods: (Kuliah/Praktikum/Seminar) Lecture and Lab  Activities: Pre-Class Material Reading In Class Material Presentation Discussion: Q&A  Post Class Teamwork – project discussion  Lab Pre-class: module reading In-class: Practicum Post-class: Continue unfinished work	1x30' 2x50' 1x40' 1x35' 1x100' 1x35'	Assessment: Lab  Grading system: Rubric	Lab - Perform all the steps in the lab Module (50%) - The results of the script that is executed according to the purpose (50%)	2%	1 [pg. 417- 452]
	m Test r Assignment Methods : Take home -	- Project					30%	Wee k 1-7
8.	SUB-CLO 09: Students are able to take advantage of Cookies, Session and string encryption to establish user authentication in information system applications. (C5)	Topics: User Authentication and Encryption  Sub-topics: 1. Cookies, session, and string encryption	Learning Methods: (Kuliah/Praktikum/Seminar) Lecture and Lab  Activities: Pre-Class Material Reading In Class Material Presentation Discussion: Q&A  Post Class	1x30' 2x50'	Assessment: Lab  Grading system: Rubric	Lab - Perform all the steps in the lab Module (50%) - The results of the script that is executed according to the purpose (50%)	2%	1 [pg. 541- 544]

	Course Sub-Learning	Toulog 0				Assesment		Ref.
Week	Course Sub-Learning Outcomes (Sub-CLO)	Topics & Sub-topics	Learning Methods and Activities	Timing	Assessment type and Grading System	Indicators	Weight	
			Teamwork – project discussion  Lab Pre-class: module reading In-class: Practicum Post-class: Continue unfinished work	1x40' 1x35' 1x100' 1x35'	<b>V</b> .,			
9.	SUB-CLO 10: Students are able to build application to validate and upload files to the server (C5)	Topics: Manage File  Sub-topics:  1. File validation 2. File upload	Learning Methods: (Kuliah/Praktikum/Seminar) Lecture and Lab  Activities: Pre-Class Material Reading In Class Material Presentation Discussion: Q&A  Post Class Teamwork – project discussion  Lab Pre-class: module reading In-class: Practicum Post-class: Continue unfinished work	1x30' 2x50' 1x40' 1x35' 1x100' 1x35'	Assessment: Task 2 Lab  Grading system: Rubric	Task 2 Code is correct and executable (60%) Originality (30%) Creativity (10%)  Lab Perform all the steps in the lab Module (50%) The results of the script that is executed according to the purpose (50%)	2%	
10.	SUB-CLO 11: Students are able to build web application using certain framework (C6)	Topics: Web Development Framework (1)  Sub-topics: 1. Types of web development framework. 2. Recognize and use several web development frameworks	Lecture and Lab  Activities: Pre-Class Material Reading In Class Material Presentation Discussion: Q&A  Post Class Teamwork – project discussion	1x30' 2x50' 1x40'	Assessment: Lab  Grading system: Rubric	Lab - Perform all the steps in the lab Module (50%) - The results of the script that is executed according to the purpose (50%)	3%	

	Course Sub-Learning	Tamina 0				Assesment		Ref.
Week	Course Sub-Learning Outcomes (Sub-CLO)	Topics & Sub-topics	Learning Methods and Activities	Timing	Assessment type and Grading System	Indicators	Weight	
			Lab Pre-class: module reading In-class: Practicum Post-class: Continue unfinished work	1x35' 1x100' 1x35'				
11.	SUB-CLO 11: Students are able to build web application using certain framework (C6)	Topics: Web Development Framework (2)  Sub-topics:  1. Types of web development framework.  2. Recognize and use several web development frameworks	Learning Methods: (Kuliah/Praktikum/Seminar) Lecture and Lab  Activities: Pre-Class Material Reading  In Class Material Presentation Discussion: Q&A  Post Class Teamwork – project discussion  Lab Pre-class: module reading In-class: Practicum Post-class: Continue unfinished work	1x30' 2x50' 1x40' 1x35' 1x100' 1x35'	Assessment: Lab  Grading system: Rubric	Lab - Perform all the steps in the lab Module (50%) - The results of the script that is executed according to the purpose (50%)	3%	
12.	SUB-CLO 11: Students are able to build web application using certain framework (C6)	Topics: Web Development Framework (3)  Sub-topics:  1. Types of web development framework.  2. Recognize and use several web development frameworks	Learning Methods: (Kuliah/Praktikum/Seminar) Lecture and Lab  Activities: Pre-Class Material Reading In Class Material Presentation Discussion: Q&A  Post Class Teamwork – project discussion	1x30' 2x50' 1x40'	Assessment: Task 3 Lab  Grading system: Rubric	Task 3  - Completeness (point a – e) (90%)  - Creativity of video making (10%)  Lab  - Perform all the steps in the lab Module (50%)  - The results of the script that is executed according to the purpose (50%)	3%	

	Course Sub-Learning	Topics &				Assesment		Ref.
Week	Outcomes (Sub-CLO)	Sub-topics	Learning Methods and Activities	Timing	Assessment type and Grading System	Indicators	Weight	
			Lab Pre-class: module reading In-class: Practicum Post-class: Continue unfinished work	1x35' 1x100' 1x35'				
13.	SUB-CLO 12: Students are able to apply several techniques related to website promotion such as utilizing search engine optimization (C6)  SUB-CLO 12: Students are Web Promotion  Sub-topics:  1. Search Engine Overview 2. Components of a Search Engine 3. Search Engine Optimization Optimization	Web Promotion  Sub-topics:  Search Engine Overview	Learning Methods: (Kuliah/Praktikum/Seminar) Lecture and Lab  Activities: Pre-Class Material Reading	1x30'	Grading system: Rubric  - Originality (30%) - Creativity (10%)	- Answers (correctness) (60%) - Originality (30%)	3%	
		Search Engine 3. Search Engine	In Class Material Presentation Discussion: Q&A  Post Class Quiz and teamwork	2x50' 1x40'		Perform all the steps in the lab Module (50%)     The results of the script that is executed according to the purpose (50%)	<i>57</i> 0	
			Lab Pre-class: module reading In-class: Practicum Post-class: Continue unfinished work	1x35' 1x100' 1x35'		parpood (ed /u)		
14.	SUB-CLO 13: Students are able to build web applications based on the design, analysis and evaluation of needs. (C3)	Topics: Implementation of Web Concepts  Sub-topics:  1. Web application implementation by students in	Learning Methods: (Kuliah/Praktikum/Seminar) Lecture and Lab  Activities: Pre-Class Finishing of group final project and preparation of presentation In Class	1x30'	Assessment: Presentation project Demo  Grading system: Rubric	Presentation and demo project:  a. Indicator 1 (30%)    Qualify tasks (UI display, database, CRUD, responsive and interactive, and more)	5%	
	SUB-CLO 14: Students are able to demo web applications that have been built based on	groups.	Group presentation Discussion: Q&A, Feedback  Post Class Revision and improvement	2x50' 1x40'		b. Indicator 2 (30%) The web app is running fine c. Indicator 3 (20%) Innovation d. Indicator 4 (10%)	10%	

	Course Sub Learning	Topics &				Assesment		Ref.
Week	Course Sub-Learning Outcomes (Sub-CLO)	Sub-topics	Learning Methods and Activities	Timing	Assessment type and Grading System	Indicators	Weight	
	design, analysis, and evaluation of needs. (C6)		Lab Pre-class: Finishing of group final project In-class: Demo web application by students in groups Post-class: Revision and improvement	1x35' 1x100' 1x35'	-	Demo explanation e. Indicator 5 (10%) Involvement of all group members		
	Final Test Type or Assignment Methods: Take home - Project						40%	Wee k 1- 14



#### H. Task/Project Details:

#### 1. Quiz 1 - 6

Course :	Web Design and Development Course Code : IS556
Task/Project Name :	Quiz Weight : 12%
Related Sub-CLO :	SUB-CLO 01-08
	A. Individual Activities
Description	Evaluating students' understanding of the material provided.
	B. Structured Work/Task
Assessment Type :	Individual quiz
Description :	Students can answer questions as evidence that they have understood the material given.
Output and format :	Output - Quiz on e-learning  Format: - Multiple choice, true/false, or essay via e-learning.
Indicators, Criteria, : and Weight	- Correctness (100%)
Project/Work Timeline :	Total duration:  With details:  a. Quiz 1  b. Quiz 2  c. Quiz 3  d. Quiz 4  e. Quiz 5  f. Quiz 6  Week 1  Week 2  Week 3  Week 3  Week 4  Week 5  Week 6
Others :	MULTIMEDIA
References :	Material week 1 - 6 NUSANTARA

Web Design and Development Course Code : IS556
Task Weight : 2%
SUB-CLO 07 - 08
A. Individual Activities
Practicing create a web application that uses the CRUD concept on a relational database.
B. Structured Work/Task
Individual task
Students create a simple scenario that implements a CRUD process on a relational database using PHP.
Output - File upload via e-learning  Format: - Zip file via e-learning.
- Code is correct and executable (60%) - Originality (30%) - Creativity (10%)
Total duration: With details: a. Task 1  Under the control of the
Material week 6

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course Code : IS556  Weight : 3%  LO 09 - 10
·
A. Individual Activities
ng create a web application that implements concept of user authentication and web encryption using e-commerce case study.
B. Structured Work/Task
al task
n e-commerce case study, create a simple register, log in, and shopping cart system.
oload via e-learning : e via e-learning.
Code is correct and executable (60%) Originality (30%) Creativity (10%)
uration:         1 x 30'           tails:         Fask 2           Week 9
week 8 - 9
ann la



Course	: Web Design and Development Course Code : IS556
Task/Project Name Related Sub-CLO	: Task : 5% : SUB-CLO 11
Neialeu Sub-CLO	A. Group Activities
Description	Looking for one of the frameworks used to create / develop websites.
	B. Structured Work/Task
Assessment Type	: Group task
Description	<ul> <li>Discuss the framework, including: <ul> <li>a. Short history such as founder, development, etc.</li> <li>b. Type (ex: open source/paid)</li> <li>c. Pre-requisite(s)</li> <li>d. Strengths and limitations</li> <li>e. Usage examples (create an example mini-project using the framework.</li> </ul> </li> <li>The mini-project may be part of the group's final project).</li> </ul>
Output and format	: Output - File upload via e-learning  Format: - Video and ppt file via e-learning.
Indicators, Criteria, and Weight	Creativity of video making (10%)
Project/Work Timeline	Total duration: With details: a. Select framework b. Video presentation (1) c. Video presentation (2)  Week 10 Week 11 Week 12 Week 12
Others	MULTIMEDIA
References	: Material week 10 – 12 NUSANTARA

Course	: Web Design and Development Course Code : IS556
Task/Project Name	: Task Weight : 3%
Related Sub-CLO	: SUB-CLO 12
	A. Individual Activities
Description	Looking for one of the frameworks used to create / develop websites.
	B. Structured Work/Task
Assessment Type	: Individual task
Description	<ul> <li>Research a search engine or search directory and determine the following:</li> <li>Are free submissions accepted? If so, are they restricted to non-commercial sites?</li> <li>What types of paid submissions are accepted? How do they work (what is the fee structure, listing guarantee, and so on)?</li> <li>What types of paid advertisements are available? How do they work (what is the fee structure, for example)?</li> <li>Is there any information about the usual time frame for the submission to be listed?</li> <li>Create a web page that describes your findings. Provide URLs of the websites you used as resources. Place your name in an e-mail link on the web page</li> </ul>
Output and format	<ul> <li>Output <ul> <li>File upload via e-learning</li> </ul> </li> <li>Format: <ul> <li>Zip file via e-learning.</li> </ul> </li> </ul>
Indicators, Criteria, and Weight	: - Answers (correctness) (60%) - Originality (30%) - Creativity (10%)
Project/Work Timeline	: Total duration: 1 x 30' With details: a. Select framework Week 13
Others	
References	: Material week 13 UNIVERSITAS
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#### 6. Final Project (Presentation)

Course : Task/Project Name :	Web Design and Development Course Code : IS556 Final Project Weight : 5 %
Related Sub-CLO :	SUB-CLO 13 & 14  A. Individual Activities
Description	Students in groups make a web application.
	B. Structured Work/Task
Assessment Type :	Take home project.
Description	Students in groups are able to build web applications based on design, analysis and evaluation of needs Provision:  - Free to choose a topic.  May be directed to PKM competitions or other competitions. It is hoped that the final results of student projects can be included in competitions and will attract more students' interest.  Topics may also be directed at SGD (Sustainable Development Goals).  In addition, it can also be themed facilitating persons with disabilities.  - Free to use the framework.  No plagiarism or copying an existing project.  Students can use a template but can't be precise, there must be a modification from the group according to the website idea/innovation that was made.
Output and format :	Output  - Web applications file project.  - PPT for presentation.  Format:  - zip file including: Web application online Project document PPT
Indicators, Criteria, : and Weight	f. Indicator 1 (30%) Qualify tasks (UI display, database, CRUD, responsive and interactive, and more) g. Indicator 2 (30%) The web app is running fine h. Indicator 3 (20%) Innovation i. Indicator 4 (10%) Demo explanation j. Indicator 5 (10%) Involvement of all group members

Project/Work Timeline :	Total duration:	1 week
	With details:  1. Presentation	Week 14
Others :		
References :	Week 1 -13	



Course :	Web Design and Development Course Code : IS556
Task/Project Name :	Practical Lab Weight : 2 %
Related Sub-CLO :	CLO1- SUB-CLO 01 - 02
	A. Individual Activities
Description	
Description	Students learn to make a simple webpage using HTML.
	ordation to make a omple wespage asing TTML.
	B. Structured Work/Task
Assessment Type :	Practical Lab
Description :	- Students are able to make a simple webpage using HTML.
<u> </u>	
Output and format :	Output
	- Answer of questions.
	- Project file/code
	Format:
	- Zip file including file doc or docx for answer and project for code.
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Indicators, Criteria,	
and Weight	- Perform all the steps in the lab Module (50%)
-	- The results of the script that is executed according to the purpose (50%)
Project/Work Timeline :	Total duration: 1 day
•	With details:
	1. Module Lab Week 1 Week 1
Others :	
- ·	UNIVERSITAS
References :	Material week 1
	M U L T I M E D I A

NUSANTARA

Course :	Web Design and Development Course Code : IS556
Task/Project Name :	Practical Lab Weight : 2 %
Related Sub-CLO :	CLO1- SUB-CLO 03
	A. Individual Activities
Description	Students learn to use CSS to lay out web page
	B. Structured Work/Task
Assessment Type :	Practical Lab
Description :	- Students are able to make a simple webpage using HTML and CSS.
Output and format :	Output - Answer of questions Project file/code  Format: - Zip file including file doc or docx for answer and project for code.
Indicators, Criteria, : and Weight	<ul> <li>Perform all the steps in the lab Module (50%)</li> <li>The results of the script that is executed according to the purpose (50%)</li> </ul>
Project/Work Timeline :	Total duration: With details: 1. Module Lab Week 2 Week 2
Others :	
	UNIVERSITAS
References :	Material week 2
	MULTIMEDIA

NUSANTARA

Course :	Web Design and Development Course Code : IS556
Task/Project Name :	Practical Lab Weight : 2 %
Related Sub-CLO :	CLO1- SUB-CLO 04
	A. Individual Activities
Description	Implementation of JavaScript and DOM 4
	B. Structured Work/Task
Assessment Type :	Practical Lab
Description :	- Students are able to lay out a webpage using the concept of JavaScript and DOM.
Output and format :	Output - Answer of questions Project file/code  Format: - Zip file including file doc or docx for answer and project for code.
Indicators, Criteria, : and Weight	<ul> <li>Perform all the steps in the lab Module (50%)</li> <li>The results of the script that is executed according to the purpose (50%)</li> </ul>
Project/Work Timeline :	Total duration: With details: 1. Module Lab Week 3 Week 3
Others :	
References :	Material week 3 UNIVERSITAS

M U L T I M E D I A N U S A N T A R A

Course :	Web Design and Development Course Code : IS556
Task/Project Name :	Practical Lab Weight : 2 %
Related Sub-CLO :	CLO1- SUB-CLO 05
	A. Individual Activities
Description	Implementation of jQuery and Bootstrap
	B. Structured Work/Task
Assessment Type	Practical Lab
Description :	- Students are able to use jQuery and Bootstrap
Output and format :	Output - Answer of questions Project file/code  Format: - Zip file including file doc or docx for answer and project for code.
Indicators, Criteria, : and Weight	<ul> <li>Perform all the steps in the lab Module (50%)</li> <li>The results of the script that is executed according to the purpose (50%)</li> </ul>
Project/Work Timeline :	Total duration: With details: 1. Module Lab Week 4 Week 4 Week 4
Others :	
References :	Material week 4 UNIVERSITAS

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Course	: Web Design and Development Course Code : IS556
Task/Project Name	Practical Lab Weight : 2 %
Related Sub-CLO	CLO1- SUB-CLO 06
	A. Individual Activities
Description	Add and configure multimedia objects on a web page
	B. Structured Work/Task
Assessment Type	Practical Lab
Description	- Students are able to add and configure multimedia objects on a web page
Output and format	Output - Answer of questions Project file/code  Format: - Zip file including file doc or docx for answer and project for code.
Indicators, Criteria, and Weight	Perform all the steps in the lab Module (50%) The results of the script that is executed according to the purpose (50%)
Project/Work Timeline	Total duration: With details: 1. Module Lab Week 5 Week 5 Week 5
Others	
References	Material week 5 UNIVERSITAS

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Course	:	Web Design and Development Course Code : IS556	
Task/Project Name	:	Practical Lab Weight : 2 %	
Related Sub-CLO	:	CLO1- SUB-CLO 07 - 08	
		A. Individual Activities	
Description		Implementation of CRUD on relational database on a web application using PHP	
		B. Structured Work/Task	
Assessment Type	:	Practical Lab	
Description	:	- Students are able to implement CRUD on relational database on a web application using PHP	
Output and format	:	Output - Answer of questions Project file/code  Format: - Zip file including file doc or docx for answer and project for code.	
Indicators, Criteria, and Weight	:	<ul> <li>Perform all the steps in the lab Module (50%)</li> <li>The results of the script that is executed according to the purpose (50%)</li> </ul>	
Project/Work Timeline	:	Total duration: With details: 1. Module Lab Week 6 Week 6 Week 6	
Others	:		
References	:	Material week 6 UNIVERSITAS	

M U L T I M E D I A N U S A N T A R A

Course	: Web Design and Development Course Code : IS556
Task/Project Name	: Practical Lab Weight : 2 %
Related Sub-CLO	: CLO1- SUB-CLO 07 - 08
	A. Individual Activities
Description	Implementation of CRUD on relational database on a web application using PHP
	B. Structured Work/Task
Assessment Type	: Practical Lab
Description	: - Students are able to implement CRUD on relational database on a web application using PHP
Output and format	<ul> <li>Output         <ul> <li>Answer of questions.</li> <li>Project file/code</li> </ul> </li> <li>Format:         <ul> <li>Zip file including file doc or docx for answer and project for code.</li> </ul> </li> </ul>
Indicators, Criteria, and Weight	Perform all the steps in the lab Module (50%) The results of the script that is executed according to the purpose (50%)
Project/Work Timeline	: Total duration: With details: 1. Module Lab Week 7 Week 7
Others	
References	: Material week 7 UNIVERSITAS
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Course	:	Web Design and Development Course Code : IS556
Task/Project Name	:	Practical Lab Weight : 2 %
Related Sub-CLO	:	CLO1- SUB-CLO 09
		A. Individual Activities
Description		Uses of cookies, session, and encryption on a web application
		B. Structured Work/Task
Assessment Type	:	Practical Lab
Description	:	- Students are able to implement of cookies, session, and encryption on a web application
Output and format	:	Output - Answer of questions Project file/code  Format: - Zip file including file doc or docx for answer and project for code.
Indicators, Criteria, and Weight	:	<ul> <li>Perform all the steps in the lab Module (50%)</li> <li>The results of the script that is executed according to the purpose (50%)</li> </ul>
Project/Work Timeline	:	Total duration: With details: 1. Module Lab Week 8 Week 8 Week 8
Others	:	
References	:	Material week 8 UNIVERSITAS

M U L T I M E D I A N U S A N T A R A

Course :	Web Design and Development Course Code : IS556
Task/Project Name :	Practical Lab Weight : 2 %
Related Sub-CLO :	CLO1- SUB-CLO 10
	A. Individual Activities
Description	Validation and file upload
	B. Structured Work/Task
Assessment Type :	Practical Lab
Description :	- Students are able to implement validation and file upload on a web application
Output and format :	Output - Answer of questions Project file/code  Format: - Zip file including file doc or docx for answer and project for code.
Indicators, Criteria, : and Weight	<ul> <li>Perform all the steps in the lab Module (50%)</li> <li>The results of the script that is executed according to the purpose (50%)</li> </ul>
Project/Work Timeline :	Total duration: With details: 1. Module Lab Week 9 Week 9
Others :	
References :	Material week 9 UNIVERSITAS

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Course	: Web Design and Development Course Code : IS556
Task/Project Name	: Practical Lab Weight : 3%
Related Sub-CLO	: CLO1- SUB-CLO 11
	A. Individual Activities
Description	Web application development using certain framework: Codelgniter
	B. Structured Work/Task
Assessment Type	: Practical Lab
Description	: - Students are able to build web application development using certain framework: Codelgniter
Output and format	: Output - Answer of questions Project file/code  Format: - Zip file including file doc or docx for answer and project for code.
Indicators, Criteria, and Weight	Perform all the steps in the lab Module (50%) The results of the script that is executed according to the purpose (50%)
Project/Work Timeline	Total duration: With details: 1. Module Lab Week 10  Week 10  Week 10
Others	
References	: Material week 10 UNIVERSITAS

M U L T I M E D I A N U S A N T A R A

Course	: Web Design and Development Course Code : IS556
Task/Project Name	: Practical Lab Weight : 3%
Related Sub-CLO	: CLO1- SUB-CLO 11
	C. Individual Activities
Description	Web application development using certain framework: Laravel
	D. Structured Work/Task
Assessment Type	: Practical Lab
Description	: - Students are able to build web application development using certain framework: Laravel
Output and format	: Output - Answer of questions Project file/code  Format: - Zip file including file doc or docx for answer and project for code.
Indicators, Criteria, and Weight	Perform all the steps in the lab Module (50%) The results of the script that is executed according to the purpose (50%)
Project/Work Timeline	Total duration: With details: 1. Module Lab Week 11 Week 11 Week 11
Others	
References	: Material week 11 UNIVERSITAS

M U L T I M E D I A N U S A N T A R A

Course	: Web Design and Development Course Code : IS556
Task/Project Name	: Practical Lab Weight : 3%
Related Sub-CLO	: CLO1- SUB-CLO 11
	E. Individual Activities
Description	Web application development using certain framework: Yii
	F. Structured Work/Task
Assessment Type	: Practical Lab
Description	: - Students are able to build web application development using certain framework: Yii
Output and format	: Output - Answer of questions Project file/code  Format: - Zip file including file doc or docx for answer and project for code.
Indicators, Criteria, and Weight	Perform all the steps in the lab Module (50%) The results of the script that is executed according to the purpose (50%)
Project/Work Timeline	: Total duration: With details: 1. Module Lab Week 12 Week 12  Week 12
Others	
References	: Material week 12 UNIVERSITAS

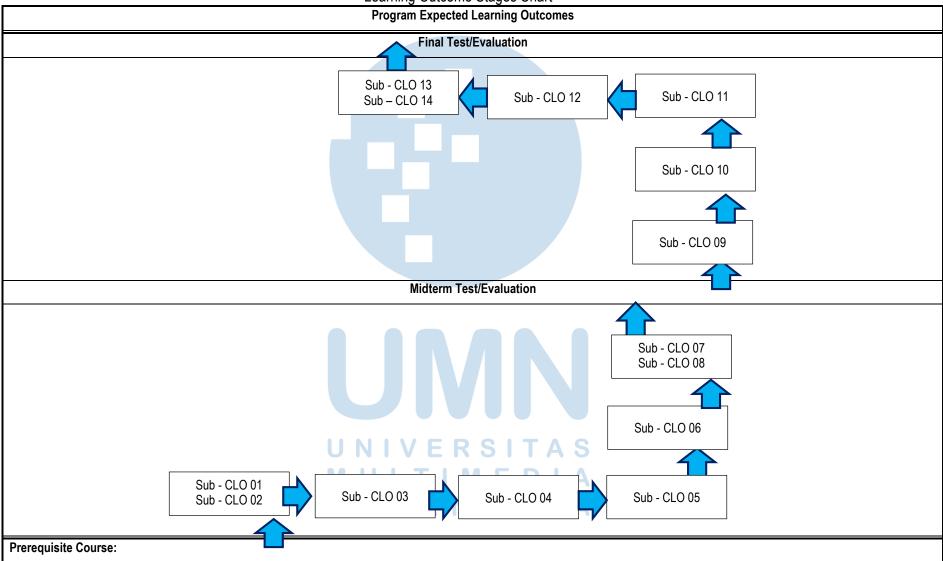
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Course :	Web Design and Development Course Code : IS556
Task/Project Name :	Practical Lab Weight : 3%
Related Sub-CLO :	CLO1- SUB-CLO 13
	A. Individual Activities
Description	Web promotion: search engine optimization
Becompain	Was promotion, accurate original optimization
	B. Structured Work/Task
Assessment Type :	Practical Lab
Description :	- Students are able to recognize and implement the concept of web promotion.
Output and format :	Output - Answer of questions Project file/code  Format: - Zip file including file doc or docx for answer and project for code.
Indicators, Criteria, : and Weight	<ul> <li>Perform all the steps in the lab Module (50%)</li> <li>The results of the script that is executed according to the purpose (50%)</li> </ul>
Project/Work Timeline :	Total duration: With details: 1. Module Lab Week 13 Week 13 Week 13
Others	
References :	Material week 13 UNIVERSITAS

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#### Attachment: Learning Outcome Analysis

#### Learning Outcome Stages Chart



#### I. Revision History

Course Code	Revision No	Date in Effect	Changes
IS556	1	06/02/2023	ELO, CLO, Task and Lab Practicum

