



**Universitas Negeri Surabaya
Faculty of Economics and Business
Bachelor of Accounting Study Program**

Document Code

SEMESTER LEARNING PLAN

Courses	CODE	Course Family	Credit Weight			SEMESTER	Compilation Date
Database Management	6220103053	Compulsory Study Program Subjects	T=3	P=0	ECTS=4.77	3	May 8, 2023
AUTHORIZATION	SP Developer	Course Cluster Coordinator			Study Program Coordinator		
	Merlyana Dwinda Yanthi, SE., ST., MSA., Ak., CA	Merlyana Dwinda Yanthi, SE., ST., MSA., Ak., CA			Dr. Rohmawati Kusumaningtyas, S.E., Ak., MSA.		

Learning model	Case Studies
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Program Learning Outcomes (PLO)	PLO study program that is charged to the course																
PLO-1	Able to demonstrate religious, national and cultural values, as well as academic ethics in carrying out their duties																
PLO-3	Develop logical, critical, systematic and creative thinking in carrying out specific work in their field of expertise and in accordance with work competency standards in the field concerned																
PLO-6	Able to analyze financial reports and conduct audits in accordance with the professional code of ethics and audit standards with the support of information technology																
PLO-9	Able to design accounting information systems, management information systems, implement software, and evaluate information technology-based internal controls according to the professional code of ethics																
Program Objectives (PO)																	
PO - 1	Able to demonstrate a responsible attitude towards work in their field of expertise independently and apply ethical principles in the field of information systems																
PO - 2	Develop logical, critical, systematic and creative thinking in carrying out specific work in their field of expertise and in accordance with work competency standards in the field concerned;																
PO - 3	Able to analyze financial reports with information technology support;																
PO - 4	Able to design accounting information systems, management information systems, implement software, and evaluate information technology-based internal controls in accordance with the Professional Code of Ethics.																
PLO-PO Matrix																	
	P.O	PLO-1	PLO-3	PLO-6	PLO-9												
	PO-1	✓															
	PO-2		✓														
	PO-3			✓													
	PO-4				✓												
PO Matrix at the end of each learning stage (Sub-PO)																	
	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				✓	✓	✓										
	PO-4							✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Short Course Description
 This course provides knowledge about database concepts, building and implementing databases with Power Business Intelligence in processing and analyzing the required data. The study materials taught in this course are: (1) Basic Data Base Management Systems, (2) Database Environment, (3) Keys and Relationships between Tables, (4) Entity Relationship Diagrams, (5) Business Data and Databases, (6) Business Model Report Modeling, (7) Data and Information: Business Intelligence, (8) Power Business Intelligence, (9) Data Analytics, (10) Quick Insight, (11) Workspace, reports and dashboards, (12) Database Relations and Reports, (13) Power Business Intelligence Big Data, and (14) Practice Big Data Analysis (Elearning)

References	Main :
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		<ol style="list-style-type: none"> 1. Devin Knight, Erin Ostrowsky, Mitchell Pearson. 2022. Microsoft Power BI Quick Start Guide - Third Edition: The ultimate beginner's guide to data modeling, visualization, digital storytelling, and more 2. Gilbert Quevauvilliers. 2017. Creating Business Intelligent Solutions of Analytical Data Models, Reports and Dashboards. 3. Brian Larson. 2020. Data Analysis with Microsoft Power BI 					
		Supporters:					
		1. Creating Business Intelligent Solutions of Analytical Data Models, Reports and Dashboards (AnugrahPratama.com)					
Supporting lecturer		Merlyana Dwinda Yanthi, S.E., S.T., M.SA.Ak. Rendra Arief Hidayat, S.Pd., M.Sc. Loggar Bhilawa, S.E., M.Si., Ak. Insyirah Putikadea, S.E., M.A.					
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	Able to explain the basic concepts of Data Base Management Systems	Accuracy in explaining the basic concepts of the Data Base Management System	Criteria: The descriptive rubric accurately describes and explains the basic concepts of the Data Base Management System Form of Assessment : Participatory Activities	Learning Forms 1. Lectures 2. Responses and tutorials Practice-based Learning Learning Methods Student Assignments 1. Make a summary of the lecture material. 2. Make powerpoint material Estimated face-to-face time (1 session x 3 credits x 50 minutes) Structured assignment (1 session x 3 credits x 60 minutes) Independent study (1 session x 3 credits x 60 minutes) 3 x 50	Vi-Learning: SIDIA Estimated face-to-face time (1 session x 3 credits x 50 minutes) Structured assignment (1 session x 3 credits x 60 minutes) Independent study (1 session x 3 credits x 60 minutes) 3 x 50	Material: Basic concepts of Data Base Management Systems References: 1. Devin Knight, Erin Ostrowsky, Mitchell Pearson. 2022. Microsoft Power BI Quick Start Guide - Third Edition: The ultimate beginner's guide to data modeling, visualization, digital storytelling, and more Material: Basic concepts of Data Base Management Systems References: 2. Gilbert Quevauvilliers. 2017. Creating Business Intelligent Solutions of Analytical Data Models, Reports and Dashboards. Material: Basic concepts of Data Base Management Systems References: 3. Brian Larson. 2020. Data Analysis with Microsoft Power BI Material: Basic concepts of Data Base Management Systems Literature: 4. Creating Business Intelligent Solutions of Analytical Data Models, Reports and Dashboards (AnugrahPratama.com)	3%

2	Able to explain the database environment	Accuracy in describing the database environment	<p>Criteria: Descriptive rubrics accurately describe and explain the database environment</p> <p>Form of Assessment : Participatory Activities</p>	<p>Learning Forms</p> <p>1. Lectures</p> <p>2. Responses and tutorials</p> <p>Practice-based Learning</p> <p>Learning Methods</p> <p>Student Assignments</p> <p>1. Make a summary of the lecture material. 2. Make powerpoint material</p> <p>Estimated face-to-face time (1 session x 3 credits x 50 minutes)</p> <p>Structured assignment (1 session x 3 credits x 60 minutes)</p> <p>Independent study (1 session x 3 credits x 60 minutes) 3 x 50</p>	<p>Vi-Learning: SIDIA</p> <p>Estimated face-to-face time (1 session x 3 credits x 50 minutes)</p> <p>Structured assignment (1 session x 3 credits x 60 minutes)</p> <p>Independent study (1 session x 3 credits x 60 minutes) 3 x 50</p>	<p>Material: Database Environment</p> <p>Bibliography: 1. <i>Devlin Knight, Erin Ostrowsky, Mitchell Pearson. 2022. Microsoft Power BI Quick Start Guide - Third Edition: The ultimate beginner's guide to data modeling, visualization, digital storytelling, and more</i></p> <hr/> <p>Material: Database Environment</p> <p>Bibliography: 2. <i>Gilbert Quevauvilliers. 2017. Creating Business Intelligent Solutions of Analytical Data Models, Reports and Dashboards.</i></p> <hr/> <p>Material: Database Environment</p> <p>Bibliography: 3. <i>Brian Larson. 2020. Data Analysis with Microsoft Power BI</i></p> <hr/> <p>Material: Database Environment</p> <p>Literature: 4. <i>Creating Business Intelligent Solutions of Analytical Data Models, Reports and Dashboards (AnugrahPratama.com)</i></p>	3%
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3	Able to identify keys and relationships between tables	Accuracy in identifying keys and relationships between tables	<p>Criteria: Descriptive rubric for accuracy in identifying keys and relationships between tables</p> <p>Form of Assessment : Participatory Activities</p>	<p>Learning Forms</p> <p>1. Lectures</p> <p>2. Responses and tutorials</p> <p>Practice-based Learning</p> <p>Learning Methods</p> <p>Student Assignments</p> <p>1. Make a summary of the lecture material. 2. Make powerpoint material</p> <p>Estimated face-to-face time (1 session x 3 credits x 50 minutes)</p> <p>Structured assignment (1 session x 3 credits x 60 minutes)</p> <p>Independent study (1 session x 3 credits x 60 minutes) 3 x 50</p>	<p>Vi-Learning: SIDIA</p> <p>Estimated face-to-face time (1 session x 3 credits x 50 minutes)</p> <p>Structured assignment (1 session x 3 credits x 60 minutes)</p> <p>Independent study (1 session x 3 credits x 60 minutes) 3 x 50</p>	<p>Material: Keys and relationships between tables</p> <p>References: 1. <i>Devin Knight, Erin Ostrowsky, Mitchell Pearson. 2022. Microsoft Power BI Quick Start Guide - Third Edition: The ultimate beginner's guide to data modeling, visualization, digital storytelling, and more</i></p> <hr/> <p>Material: Keys and relationships between tables</p> <p>References: 2. <i>Gilbert Quevauvilliers. 2017. Creating Business Intelligent Solutions of Analytical Data Models, Reports and Dashboards.</i></p> <hr/> <p>Material: Keys and relationships between tables</p> <p>References: 3. <i>Brian Larson. 2020. Data Analysis with Microsoft Power BI</i></p> <hr/> <p>Material: Keys and relationships between tables</p> <p>References: 4. <i>Creating Business Intelligent Solutions of Analytical Data Models, Reports and Dashboards (AnugrahPratama.com)</i></p>	3%
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4	Able to create an Entity Relationship Diagram (ERD)	Accuracy in identifying and creating Entity Relationship Diagrams (ERD)	<p>Criteria: Descriptive rubric for the accuracy of identifying and creating an Entity Relationship Diagram (ERD)</p> <p>Form of Assessment : Participatory Activities</p>	<p>Learning Forms</p> <p>1. Lectures</p> <p>2. Responses and tutorials</p> <p>Practice-based Learning</p> <p>Learning Methods</p> <p>Student Assignments</p> <p>1. Make a summary of the lecture material. 2. Make powerpoint material</p> <p>Estimated face-to-face time (1 session x 3 credits x 50 minutes)</p> <p>Structured assignment (1 session x 3 credits x 60 minutes)</p> <p>Independent study (1 session x 3 credits x 60 minutes) 3 x 50</p>	<p>Vi-Learning: SIDIA</p> <p>Estimated face-to-face time (1 session x 3 credits x 50 minutes)</p> <p>Structured assignment (1 session x 3 credits x 60 minutes)</p> <p>Independent study (1 session x 3 credits x 60 minutes) 3 x 50</p>	<p>Material: Entity Relationship Diagram (ERD)</p> <p>References: 1. <i>Devin Knight, Erin Ostrowsky, Mitchell Pearson. 2022. Microsoft Power BI Quick Start Guide - Third Edition: The ultimate beginner's guide to data modeling, visualization, digital storytelling, and more</i></p> <hr/> <p>Material: Entity Relationship Diagram (ERD)</p> <p>References: 2. <i>Gilbert Quevauvilliers. 2017. Creating Business Intelligent Solutions of Analytical Data Models, Reports and Dashboards.</i></p> <hr/> <p>Material: Entity Relationship Diagram (ERD)</p> <p>References: 3. <i>Brian Larson. 2020. Data Analysis with Microsoft Power BI</i></p> <hr/> <p>Material: Entity Relationship Diagram (ERD)</p> <p>Library: 4. <i>Creating Business Intelligent Solutions of Analytical Data Models, Reports and Dashboards (AnugrahPratama.com)</i></p>	3%
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5	Able to identify and create entities, attributes, relationships and degrees of cardinality	Accuracy in identifying and creating entities, attributes, relationships and degrees of cardinality of Business Data and Databases	<p>Criteria: Descriptive rubric for accuracy in identifying and creating entities, attributes, relationships and degree of cardinality of Business Data and Databases</p> <p>Form of Assessment : Participatory Activities</p>	<p>Learning Forms</p> <p>1. Lectures</p> <p>2. Responses and tutorials</p> <p>Practice-based Learning</p> <p>Learning Methods</p> <p>Student Assignments</p> <p>1. Make a summary of the lecture material. 2. Make powerpoint material</p> <p>Estimated face-to-face time (1 session x 3 credits x 50 minutes)</p> <p>Structured assignment (1 session x 3 credits x 60 minutes)</p> <p>Independent study (1 session x 3 credits x 60 minutes) 3 x 50</p>	<p>Vi-Learning: SIDIA</p> <p>Estimated face-to-face time (1 session x 3 credits x 50 minutes)</p> <p>Structured assignment (1 session x 3 credits x 60 minutes)</p> <p>Independent study (1 session x 3 credits x 60 minutes) 3 x 50</p>	<p>Material: Entities, attributes, relationships and degrees of cardinality</p> <p>References: 1. <i>Devin Knight, Erin Ostrowsky, Mitchell Pearson. 2022. Microsoft Power BI Quick Start Guide - Third Edition: The ultimate beginner's guide to data modeling, visualization, digital storytelling, and more</i></p> <hr/> <p>Material: Entities, attributes, relationships and degrees of cardinality</p> <p>References: 2. <i>Gilbert Quevauvilliers. 2017. Creating Business Intelligent Solutions of Analytical Data Models, Reports and Dashboards.</i></p> <hr/> <p>Material: Entities, attributes, relationships and degrees of cardinality</p> <p>References: 3. <i>Brian Larson. 2020. Data Analysis with Microsoft Power BI</i></p> <hr/> <p>Material: Entities, attributes, relationships and degrees of cardinality</p> <p>Library: 4. <i>Creating Business Intelligent Solutions of Analytical Data Models, Reports and Dashboards (AnugrahPratama.com)</i></p>	3%
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6	Able to use and implement database systems	Accuracy in modeling Business Model Reports	<p>Criteria: Descriptive rubric for accuracy in modeling Business Model Reports</p> <p>Form of Assessment : Participatory Activities</p>	<p>Learning Forms</p> <p>1. Lectures</p> <p>2. Responses and tutorials</p> <p>Practice-based Learning</p> <p>Learning Methods</p> <p>Student Assignments</p> <p>1. Make a summary of the lecture material. 2. Make powerpoint material</p> <p>Estimated face-to-face time (1 session x 3 credits x 50 minutes)</p> <p>Structured assignment (1 session x 3 credits x 60 minutes)</p> <p>Independent study (1 session x 3 credits x 60 minutes) 3 x 50</p>	<p>Vi-Learning: SIDIA</p> <p>Estimated face-to-face time (1 session x 3 credits x 50 minutes)</p> <p>Structured assignment (1 session x 3 credits x 60 minutes)</p> <p>Independent study (1 session x 3 credits x 60 minutes) 3 x 50</p>	<p>Material: Database systems</p> <p>References: 1. Devin Knight, Erin Ostrowsky, Mitchell Pearson. 2022. <i>Microsoft Power BI Quick Start Guide - Third Edition: The ultimate beginner's guide to data modeling, visualization, digital storytelling, and more</i></p> <hr/> <p>Material: Database systems</p> <p>References: 2. Gilbert Quevauvilliers. 2017. <i>Creating Business Intelligent Solutions of Analytical Data Models, Reports and Dashboards.</i></p> <hr/> <p>Material: Database systems</p> <p>References: 3. Brian Larson. 2020. <i>Data Analysis with Microsoft Power BI</i></p> <hr/> <p>Material: Database systems</p> <p>References: 4. <i>Creating Business Intelligent Solutions of Analytical Data Models, Reports and Dashboards (AnugrahPratama.com)</i></p>	3%
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7	Able to explain Power Business Intelligence	Accuracy in explaining Data and Information in Business Intelligence	<p>Criteria: Descriptive rubric for accuracy in explaining Data and Information in Business Intelligence</p> <p>Form of Assessment : Participatory Activities</p>	<p>Learning Forms</p> <p>1. Lectures</p> <p>2. Responses and tutorials</p> <p>Practice-based Learning</p> <p>Learning Methods</p> <p>Student Assignments</p> <p>1. Make a summary of the lecture material. 2. Make powerpoint material</p> <p>Estimated face-to-face time (1 session x 3 credits x 50 minutes)</p> <p>Structured assignment (1 session x 3 credits x 60 minutes)</p> <p>Independent study (1 session x 3 credits x 60 minutes) 3 x 50</p>	<p>Vi-Learning: SIDIA</p> <p>Estimated face-to-face time (1 session x 3 credits x 50 minutes)</p> <p>Structured assignment (1 session x 3 credits x 60 minutes)</p> <p>Independent study (1 session x 3 credits x 60 minutes) 3 x 50</p>	<p>Material: Power Business Intelligence</p> <p>Bibliography: 3. Brian Larson. 2020. <i>Data Analysis with Microsoft Power BI</i></p>	4%
8	Midterm exam	Midterm exam	<p>Criteria: Midterm Exam Assessment Rubric</p> <p>Form of Assessment : Portfolio Assessment</p>				20%

9		Accuracy in explaining Power Business Intelligence	<p>Criteria: Descriptive rubric for accuracy in explaining Data and Information in Business Intelligence</p> <p>Form of Assessment : Participatory Activities</p>	<p>Learning Forms</p> <p>1. Lectures</p> <p>2. Responses and tutorials</p> <p>Practice-based Learning</p> <p>Learning Methods</p> <p>Student Assignments</p> <p>1. Make a summary of the lecture material. 2. Complete the case study</p> <p>Estimated face to face time (1 session x 3 credits x 50 minutes)</p> <p>Structured assignment (1 session x 3 credits x 60 minutes)</p> <p>Independent study (1 session x 3 credits x 60 minutes) 3 x 50</p>	<p>Vi-Learning: SIDIA</p> <p>Estimated face-to-face time (1 session x 3 credits x 50 minutes)</p> <p>Structured assignment (1 session x 3 credits x 60 minutes)</p> <p>Independent study (1 session x 3 credits x 60 minutes) 3 x 50</p>	<p>Material: Power Business Intelligence</p> <p>Bibliography: 3. <i>Brian Larson. 2020. Data Analysis with Microsoft Power BI</i></p>	4%
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10	Able to explain analytical data and quick insights	Accuracy in explaining analytical data and quick insights	<p>Criteria: The descriptive rubric accurately explains analytical data and quick insight</p> <p>Form of Assessment : Participatory Activities</p>	<p>Learning Forms</p> <p>1. Lectures</p> <p>2. Responses and tutorials</p> <p>Practice-based</p> <p>Learning Learning Methods Student Assignments</p> <p>Completing analytical data and quick insight</p> <p>Estimated Face-to-face Time (2 sessions x 3 credits x 50 minutes)</p> <p>Structured assignments (2 sessions x 3 credits x 60 minutes)</p> <p>Independent study (2 sessions x 3 credits x 60 minutes) 3 x 50</p>	<p>Vi-Learning: SIDIA</p> <p>Estimated face-to-face time (2 sessions x 3 credits x 50 minutes)</p> <p>Structured assignments (2 sessions x 3 credits x 60 minutes)</p> <p>Independent study (2 sessions x 3 credits x 60 minutes) 3 x 50</p>	<p>Material: Data Analytics and Quick Insight</p> <p>References: 1. Devin Knight, Erin Ostrowsky, Mitchell Pearson. 2022. <i>Microsoft Power BI Quick Start Guide - Third Edition: The ultimate beginner's guide to data modeling, visualization, digital storytelling, and more</i></p> <hr/> <p>Material: Analytical Data and Quick Insight</p> <p>Reader: 2. Gilbert Quevauvilliers. 2017. <i>Creating Business Intelligent Solutions of Analytical Data Models, Reports and Dashboards.</i></p> <hr/> <p>Material: Data Analytics and Quick Insight</p> <p>References: 3. Brian Larson. 2020. <i>Data Analysis with Microsoft Power BI</i></p> <hr/> <p>Material: Analytical Data and Quick Insight</p> <p>Library: 4. <i>Creating Business Intelligent Solutions of Analytical Data Models, Reports and Dashboards (AnugrahPratama.com)</i></p>	4%
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11	Able to explain analytical data and quick insights	Accuracy in explaining analytical data and quick insights	<p>Criteria: The descriptive rubric accurately explains analytical data and quick insight</p> <p>Form of Assessment : Participatory Activities</p>	<p>Learning Forms</p> <p>1. Lectures</p> <p>2. Responses and tutorials</p> <p>Practice-based</p> <p>Learning Learning Methods Student Assignments</p> <p>Completing analytical data and quick insight</p> <p>Estimated Face-to-face Time (2 sessions x 3 credits x 50 minutes)</p> <p>Structured assignments (2 sessions x 3 credits x 60 minutes)</p> <p>Independent study (2 sessions x 3 credits x 60 minutes) 3 x 50</p>	<p>Vi-Learning: SIDIA</p> <p>Estimated face-to-face time (2 sessions x 3 credits x 50 minutes)</p> <p>Structured assignments (2 sessions x 3 credits x 60 minutes)</p> <p>Independent study (2 sessions x 3 credits x 60 minutes) 3 x 50</p>	<p>Material: Data Analytics and Quick Insight</p> <p>References: 1. Devin Knight, Erin Ostrowsky, Mitchell Pearson. 2022. <i>Microsoft Power BI Quick Start Guide - Third Edition: The ultimate beginner's guide to data modeling, visualization, digital storytelling, and more</i></p> <hr/> <p>Material: Analytical Data and Quick Insight</p> <p>Reader: 2. Gilbert Quevauvilliers. 2017. <i>Creating Business Intelligent Solutions of Analytical Data Models, Reports and Dashboards.</i></p> <hr/> <p>Material: Data Analytics and Quick Insight</p> <p>References: 3. Brian Larson. 2020. <i>Data Analysis with Microsoft Power BI</i></p> <hr/> <p>Material: Analytical Data and Quick Insight</p> <p>Library: 4. <i>Creating Business Intelligent Solutions of Analytical Data Models, Reports and Dashboards (AnugrahPratama.com)</i></p>	4%
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12	Able to identify the data needed to process and create visualizations	Accuracy in explaining and creating workspaces, reports, dashboards and Database Relations and Reports	<p>Criteria: Descriptive rubrics accurately explain and create workspaces, reports, dashboards and Database Relations and Reports</p> <p>Form of Assessment : Participatory Activities</p>	<p>Learning Forms</p> <p>1. Lectures</p> <p>2. Responses and tutorials</p> <p>Practice-based Learning</p> <p>Learning Methods</p> <p>Student Assignments</p> <p>Completing and processing data creating visualizations</p> <p>Estimated Face Time (2 sessions x 3 credits x 50 minutes)</p> <p>Structured assignments (2 sessions x 3 credits x 60 minutes)</p> <p>Independent study (2 sessions x 3 credits x 60 minutes) 3 X 50</p>	<p>Vi-Learning: SIDIA</p> <p>Estimated face to face time (2 sessions x 3 credits x 50 minutes)</p> <p>Structured assignment (2 sessions x 3 credits x 60 minutes)</p> <p>Independent study (2 sessions x 3 credits x 60 minutes) 3 X 50</p>	<p>Material: Workspace, report, dashboard and Database Relations and Reports</p> <p>References: 1. <i>Devin Knight, Erin Ostrowsky, Mitchell Pearson. 2022. Microsoft Power BI Quick Start Guide - Third Edition: The ultimate beginner's guide to data modeling, visualization, digital storytelling, and more</i></p> <p>Material: Workspace, reports, dashboards and Database Relations and Reports</p> <p>Library: 2. <i>Gilbert Quevauvilliers. 2017. Creating Business Intelligent Solutions of Analytical Data Models, Reports and Dashboards.</i></p> <p>Material: Workspace, reports, dashboards and Database Relations and Reports</p> <p>Library: 3. <i>Brian Larson. 2020. Data Analysis with Microsoft Power BI</i></p> <p>Material: Workspace, report, dashboard and Database Relations and Reports</p> <p>Library: 4. <i>Creating Business Intelligent Solutions of Analytical Data Models, Reports and Dashboards (AnugrahPratama.com)</i></p>	4%
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13	Able to identify the data needed to process and create visualizations	Accuracy in explaining and creating workspaces, reports, dashboards and Database Relations and Reports	<p>Criteria: Descriptive rubrics accurately explain and create workspaces, reports, dashboards and Database Relations and Reports</p> <p>Form of Assessment : Participatory Activities</p>	<p>Learning Forms</p> <p>1. Lectures</p> <p>2. Responses and tutorials</p> <p>Practice-based Learning</p> <p>Learning Methods</p> <p>Student Assignments</p> <p>Completing and processing data creating visualizations</p> <p>Estimated Face Time (2 sessions x 3 credits x 50 minutes)</p> <p>Structured assignments (2 sessions x 3 credits x 60 minutes)</p> <p>Independent study (2 sessions x 3 credits x 60 minutes) 3 X 50</p>	<p>Vi-Learning: SIDIA</p> <p>Estimated face to face time (2 sessions x 3 credits x 50 minutes)</p> <p>Structured assignment (2 sessions x 3 credits x 60 minutes)</p> <p>Independent study (2 sessions x 3 credits x 60 minutes) 3 X 50</p>	<p>Material: Workspace, report, dashboard and Database Relations and Reports</p> <p>References: 1. <i>Devin Knight, Erin Ostrowsky, Mitchell Pearson. 2022. Microsoft Power BI Quick Start Guide - Third Edition: The ultimate beginner's guide to data modeling, visualization, digital storytelling, and more</i></p> <p>Material: Workspace, reports, dashboards and Database Relations and Reports</p> <p>Library: 2. <i>Gilbert Quevauvilliers. 2017. Creating Business Intelligent Solutions of Analytical Data Models, Reports and Dashboards.</i></p> <p>Material: Workspace, reports, dashboards and Database Relations and Reports</p> <p>Library: 3. <i>Brian Larson. 2020. Data Analysis with Microsoft Power BI</i></p> <p>Material: Workspace, report, dashboard and Database Relations and Reports</p> <p>Library: 4. <i>Creating Business Intelligent Solutions of Analytical Data Models, Reports and Dashboards (AnugrahPratama.com)</i></p>	4%
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14	Able to identify and process data with Power Business Intelligence	Accuracy in identifying and processing Power Business Intelligence Big Data	<p>Criteria: Descriptive rubric identifies and processes Power Business Intelligence Big Data</p> <p>Form of Assessment : Participatory Activities</p>	<p>Learning Forms 1. Lecture 2. Response and tutorial</p> <p>Learning Method Practice-based Learning</p> <p>Student Assignment Processing data with Power Business Intelligence Estimated Face-to-face</p> <p>Time (1 session x 3 credits x 50 minutes) Structured assignment (1 session x 3 credits x 60 minutes) Independent study (1 session x 3 credits x 60 minutes) 3 x 50</p>	<p>Vi-Learning: SIDIA</p> <p>Estimated face-to-face time (1 session x 3 credits x 50 minutes)</p> <p>Structured assignment (1 session x 3 credits x 60 minutes)</p> <p>Independent study (1 session x 3 credits x 60 minutes) 3 x 50</p>	<p>Material: Power Business Intelligence Bibliography: 2. <i>Gilbert Quevauvilliers. 2017. Creating Business Intelligent Solutions of Analytical Data Models, Reports and Dashboards.</i></p> <hr/> <p>Material: Power Business Intelligence Bibliography: 3. <i>Brian Larson. 2020. Data Analysis with Microsoft Power BI</i></p>	4%
15	Able to identify and process data with Power Business Intelligence	Accuracy in practicing Big Data Analysis (Elearning)	<p>Criteria: Descriptive rubric for the accuracy of practicing Big Data Analysis (Elearning)</p> <p>Form of Assessment : Participatory Activities</p>	<p>Learning Forms 1. Lecture 2. Response and tutorial</p> <p>Learning Method Practice-based Learning</p> <p>Student Assignment Processing data with Power Business Intelligence Estimated Face-to-face</p> <p>Time (1 session x 3 credits x 50 minutes) Structured assignment (1 session x 3 credits x 60 minutes) Independent study (1 session x 3 credits x 60 minutes) 3 x 50</p>	<p>Vi-Learning: SIDIA</p> <p>Estimated face-to-face time (1 session x 3 credits x 50 minutes)</p> <p>Structured assignment (1 session x 3 credits x 60 minutes)</p> <p>Independent study (1 session x 3 credits x 60 minutes) 3 x 50</p>	<p>Material: Power Business Intelligence Bibliography: 2. <i>Gilbert Quevauvilliers. 2017. Creating Business Intelligent Solutions of Analytical Data Models, Reports and Dashboards.</i></p> <hr/> <p>Material: Power Business Intelligence Bibliography: 3. <i>Brian Larson. 2020. Data Analysis with Microsoft Power BI</i></p>	4%

16	Final exams	Final exams	Criteria: Final Semester Exam assessment rubric Form of Assessment : Test				30%
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Evaluation Percentage Recap: Case Study

No	Evaluation	Percentage
1.	Participatory Activities	50%
2.	Portfolio Assessment	20%
3.	Test	30%
		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** abilities in the process and student learning outcomes are specific and measurable statements that identify the abilities 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.
- 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.
- 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.
- Learning materials** are details or descriptions of study materials which can be presented in the form of several main points and sub-topics.
- 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%.
- TM=Face to face, PT=Structured assignments, BM=Independent study.