

### Description of Course Unit

Course unit title	Database Management
Course unit code	VW 191303
Type of course unit (compulsory, optional)	compulsory
Level of course unit (according to EQF: first cycle Bachelor, second cycle Master)	first cycle Bachelor
Year of study when the course unit is delivered (if applicable)	
Semester/trimester when the course unit is delivered	3
Number of ECTS credits allocated	3.2
Name of lecturer(s)	Wahyu Wibowo, Brodjol Setijo SU, Mochammad Reza Habibi
Learning outcomes of the course unit	<p>Students are:</p> <ul style="list-style-type: none"> <li>- Able to explain and understand database</li> <li>- Able to understand and apply entity relationship diagrams and database schema</li> <li>- Able to understand and apply data definition language and data manipulation language</li> <li>- Able to implement basic queries, aggregation, join, and complex query on databases</li> <li>- Able to understand data indexing and process big data</li> </ul>
Mode of delivery (face-to-face, distance learning)	Face to face
Prerequisites and co-requisites (if applicable)	-
Course content	<ol style="list-style-type: none"> <li>1. Fundamental of database management</li> <li>2. Entity relationship and data integrity</li> <li>3. Data modeling and manipulation</li> <li>4. Basic query and join table</li> <li>5. Data indexing and materialized view</li> <li>6. Online survey and database management system</li> </ol>
Recommended or required reading and other learning resources/tools	<ol style="list-style-type: none"> <li>1. Wibowo, W et al, 2022, Modul Manajemen Basis Data</li> <li>2. Fontaine, D, 2019, The Art of Postgresql</li> </ol>
Planned learning activities and teaching methods	Technology-based learning and blended learning
Language of instruction	Indonesian Language
Assessment methods and criteria	Assignment and Final Project