

Description of Course Unit

Course unit title	Unstructured Data Method
Course unit code	VS191702
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	7
Number of ECTS credits allocated	3.2
Name of lecturer(s)	Wahyu Wibowo, Noviyanti Santoso
Learning outcomes of the course unit	<ol style="list-style-type: none"> 1. Able to explain the meaning and scope of unstructured data 2. Able to explain <i>Natural Language Processing</i> and <i>Text Mining</i> 3. Able to collect and <i>pre-processing</i> unstructured data 4. Able to explain <i>Machine Learning</i> methods for unstructured data 5. Able to explain the stages of <i>POS tagging</i> and <i>Name Entity Recognition</i> 6. Able to apply text classification and clustering 7. Able to conduct sentiment analysis on social media
Mode of delivery (face-to-face, distance learning)	face-to-face
Prerequisites and co-requisites (if applicable)	Computational Statistics
Course content	<ol style="list-style-type: none"> 1. Introduction to NLP 2. Preprocessing text 3. Text Visualization 4. Sentimen Analysis 5. POS Tagging 6. Topic Modeling 7. Text Classification
Recommended or required reading and other learning resources/tools	Dipanjan Sarkar, 2019, <i>Text Analytics with Python : A Practical Real-World Approach to Gaining Actionable Insights from your Data</i> , APress Steven Struhl, <i>Practical Text Analysis</i> , Kagan Page
Planned learning activities and teaching methods	Problem Based Learning, Blended Learning
Language of instruction	Indonesian Language
Assessment methods and criteria	Assignment, Quiz, Midterm Exam and Final Exam