

Description of Course Unit

Course unit title	Applied Chemistry
Course unit code	VW191903
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	2
Number of ECTS credits allocated	4.8
Name of lecturer(s)	Ninieek Fajar Puspita
Learning outcomes of the course unit	Ability to understand an applied science used to face the problems that are basically chemistry oriented in nature
Mode of delivery (face-to-face, distance learning)	face-to-face
Prerequisites and co-requisites (if applicable)	
Course content	Introduction of applied chemistry; Types of chemicals and MSDS; Chemical safety; Chemical concentrations and solutions Environmental and water chemistry Lubricants and lubrication
Recommended or required reading and other learning resources/tools	1. Chander, J. and Kumar, A., A comprehensive Text Book of Applied Chemistry, Abhishek Publications, Chandiharh, 2009. 2. Roussak, O.V. and Gesser, H.D. , Applied Chemistry: A Textbook for Engineers and Technologists, 2nd Edition, Springer, New York, DOI 10.1007/978-1-4614-4262-2, 2013. 3. Patnaik, P., A Comprehensive Guide to the Hazardous Properties of Chemical Substances, 3rd Edition, John Wiley & Sons, Inc., New Jersey, 2007.
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