

## MODUL HANDBOOK

Module Name	Chemistry Learning for Vocational School
Module level	Bachelor
Abbreviation, if applicable	8420402216
Sub-heading, if applicable	-
Course included in the module, if applicable	-
Semester/term	6 <sup>th</sup> /Third Year
Module coordinator(s)	Rusly Hidayah, M.Pd.
Lecturer(s)	Dr. Achmad Lutfi., M.Pd
Language	Indonesian
Classification within the curriculum	Elective Course
Teaching format/class hours per week during the semester:	2 hours lecturers (50 min per hours)
Workload:	2 x 50 minutes lectures, 2 x 60 minutes structured activity, 2 x 60 minutes individual activity, 14 weeks per semester, 79,33 total hours per semester ~ 3.18 ECTS**
Credit points:	2 CU = 2 x 1,59 = 3,18 ECTS
Prerequisite course(s):	-
Targeted learning outcomes:	<p>CLO 1 Students are able to compare high school chemistry and vocational high school chemistry</p> <p>CLO 2 Students are able to make decisions based on the results of analysis of the peculiarities of learning Chemistry at SMK</p> <p>CLO 3 Student had master the on the position of Chemistry in the expertise program at SMK</p> <p>CLO 4 Students have a responsible attitude in Preparing Chemistry learning plans in SMK and the linkage of SMK chemistry learning strategies with the goals to be achieved by the expertise program</p>
Content:	<ol style="list-style-type: none"> <li>1. Comparison of high school chemistry and vocational high school</li> <li>2. Vocational High School Curriculum</li> <li>3. The Position of Chemistry in Vocational High Schools</li> <li>4. Learning Chemistry in Vocational High Schools</li> <li>5. Core Competencies and Basic Competitions of Chemistry in Vocational High Schools</li> <li>6. Vocational High School Chemistry Learning Devices</li> </ol>
Study / exam achievements:	Students are considered to complete the course and pass if they obtain at least 40% of maximum final grade. The final grade (NA) is calculated based on the following ratio:

	Assessment Components	Percentage of contribution
	Participation	20%
	Assignment	30%
	Mid-semester test	20%
	Final semester test	30%
Media:	Computer, LCD, White board	
Learning Methods	Individuals assignment, group assignment, discussion, presentation, and practicum	
Literature:	<ol style="list-style-type: none"> <li>1. Lutfi, A. dan Hidayah, R. 2019. <i>Pembelajaran Kimia SMK</i>. Surabaya: Unesa University Press.</li> <li>2. Depdikbud RI. 2018. <i>Pelaksanaan Kurikulum SMK K13 Revisi</i>.</li> <li>3. Wuladari, Cicik Sri. 2018. <i>Buku Ajar Proses Industri Kimia</i>. Malang: KITTO BOOK.</li> <li>4. Mujayanah. 2018. <i>Buku Ajar Alat Industri Kimia</i>. Malang: KITTO BOOK.</li> </ol>	
Notes:	<p>*1 CU in learning process = three periods consist of: (a) scheduled instruction in a classroom or laboratory (50 minutes); (b) structured activity (60 minutes); and (c) individual activity (60 minutes) according to the Regulation of Indonesia Ministry of Research, Technology, and Higher Education No. 44 Year 2015 jo. the Regulation of Indonesia Ministry of Research, Technology, and Higher Education No. 50 Year 2018.</p> <p>**1 CU = 1,59 ECTS according to Rector Decree Of Universitas Negeri Surabaya No. 598/Un38/Hk/Ak/2019</p>	