Faculty of Natural Sciences and Mathematics Chemistry Department Chemistry Education Study Program			
Chemistry for Vocational High School			
4 th year			
SPK-756 7 th semester			
esia			
T			
hours			
16 27 hours			
) 22 h			
) x 32 hours			
120 32 hours			
32 Hours			
3.25 2 SCU			
Minimum attendance at lectures is 75% (according to UII			
regulation)			
N/A			
N/A			
On successful completion of the course students should be			
able to:			
1. Students can explain the curriculum structure,			
objectives, development directions, characteristics, and			
areas of expertise of Vocational High School			
a. Students can explain the structure of the Vocational			
High School curriculum			
b. Students can explain the purpose and direction of			
Vocational High School development			

- 2. Students can explain the learning substance and competence of Vocational High School chemistry learning
 - a. Students can explain the substance of Vocational High School chemistry learning
 - b. Students can explain the chemistry learning competencies of Vocational High School
- 3. Students can explain the learning substance and competence of vocational chemistry learning in the field of analytical chemistry expertise
 - a. Students can explain the substance of Vocational High School chemistry learning
 - b. Students can explain vocational chemistry learning competencies.
- 4. Students can explain chemical pedagogy knowledge related to titrimetric and gravimetric analysis materials, chemical analysis of instruments, microbiology, analysis of organic materials, analysis of inorganic materials, photometric analysis, verification of measuring instruments
 - a. Students can explain their knowledge of chemical pedagogy related to titrimetric analysis materials
 - b. Students can explain the knowledge of chemical pedagogy related to gravimetry
 - Students can explain their knowledge of chemical pedagogy related to chemical analysis of instruments
 - d. Students can explain their knowledge of chemical pedagogy related to microbiology
 - e. Students can explain their knowledge of chemical pedagogy related to organic matter analysis
 - f. Students can explain their knowledge of chemical pedagogy related to the analysis of inorganic materials
 - g. Students can explain their knowledge of chemical pedagogy related to photometric analysis
 - h. Students can explain their knowledge of chemical pedagogy related to measuring instrument verification

Chemistry curriculum in Vocational High School (VHS):

Content

	• The goals and direction of vocational development,			
	Vocational characteristics, vocational expertise,			
	 Learning substances at vocational schools, 			
	Vocational chemistry learning competencies,			
	 Vocational cl 	nemistry	curriculum structure	
	(normative): material and sequence, time allocation for			
	problems, and development of chemical materials,			
	VHS revitalization,			
	Adaptive vhs chemistry			
	Core and basic competencies of productive subjects at			
	VHS chemistry analyst, material review: titrimetric and			
	gravimetric analysis, chemical analysis of instruments,			
	microbiology, analysis of organic matter, analysis of			
	inorganic materials, photometric analysis, verification			
	of measuring instruments			
Study and examination	Final score (NA) is calculated as follows:			
requirements and forms of	Intended	Weight	Technique of	
examination	learning outcomes	(%)	assessment	
	1	25	Written test (midterm)	
	2	25	Written test (midterm)	
	3	25	Written test (Final	
			Examination)	
	4	25	Written test (Final	
			Examination)	
Media employed	Power point slide presentation, video, Google classroom			
Reading list	Direktorat Pembinaan Sekolah Menengah Kejuruan,			
	Analisis Kimia Dasar: Paket Keahlian Kimia			
	Analis Kelas X Semester 1, Jakarta: Direktorat			
	Pembinaan SMK.			
	Sahirman, 2013, <i>Analisis Kimia Dasar Kelas X Semester</i> 2, Jakarta: Direktorat Pembinaan SMK. Direktorat Pembinaan Sekolah Menengah Kejuruan,			
	Kimia Analitik Terapan, Jakarta: Direktorat			
	Pembinaan SMK.			
	Pembinaan S	IVIK.		

Prepared by:	Verified by:	Authorized by;
	Auto	
Person responsible for the module	Student representative	Coordinator Program