
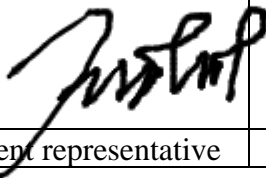





Faculty of Natural Sciences and Mathematics
Chemistry Department
Chemistry Education Study Program

Module name		Computer application for chemistry labwork		
Module level, if applicable		1 st Year		
Code, if applicable		SPK – 213		
Semester(s) in which the module is taught		2 nd semester		
Person responsible for the module		Muhaimin, M.Sc.		
Lecturer		Muhaimin, M.Sc.		
Language		Indonesia		
Relation to curriculum		<i>Compulsory</i>		
Teaching methods	Class size	Forms of active participation	Workload 45 hours	
Practicum	20-25	Laboratory work, discussion	Laboratory work: 170 (min) x 8 (meeting)	23 hours
			Preparation: 120 (min) x 8 + 100 (min) x 2 Exam: 100 (min) +100 (min)	22 hours
ECTS Credit		1.61		
Credit points		1 SCU		
Requirements according to the examination regulations		<p>Student must follow all the series of practicum activities. Violation of this will result in giving an E value (failing practicum).</p> <p>Student who do not participate in the practicum for 3 (three) times without justified reasons may not attend the next practicum and are considered to have resigned from the practicum.</p> <p>Student who for some reason cannot follow the practicum according to the predetermined schedule can apply for inhaal practicum. Inhaal costs are determined by the laboratory.</p> <p>Student who inhaal allowed for a student a maximum of 3 (three) times.</p> <p>Student who have not completed laboratory expenses such as tools, materials or tasks (if any) within a certain time will be given a K or F value.</p>		
Recommended prerequisites		N/A		

Related course	Statistics for Research		
Module objectives/intended learning outcomes	<p>On successful completion of the course students should be able to:</p> <ol style="list-style-type: none"> 1. Explain the concept of uses Ms. Word, Reference manager, Ms. Excel, Chems sketch, ChemDraw, Marvin Sketch, SPSS, Minitab in Chemistry 2. Use the computer application of chemistry: Ms. Word, Reference manager, Ms. Excel, Chems sketch, ChemDraw, Marvin Sketch, SPSS, Minitab in Chemistry 3. Apply computer applications to Chemistry for writing scientific papers or scientific articles 		
Content	<ul style="list-style-type: none"> • Ms. Word • Reference manager • Ms. Excel • Chems sketch • ChemDraw • Marvin Sketch • SPSS • Minitab 		
Study and examination requirements and forms of examination	Final score (NA) is calculated as follows:		
	Intended learning outcomes	Weight (%)	Technique of assessment
	1	40	Test: pretest and posttest
	2	30	Non test: performance observation
	3	30	Non test: lab work report
Media employed	Computer application for chemistry		
Reading list	Muhaimin, 2017, Aplikasi Komputer Untuk Kimia, Semesta Aksara, Yogyakarta		

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