






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

Module name		Organic chemistry labwork		
Module level, if applicable		2 nd Year		
Code, if applicable		SPK – 323		
Semester(s) in which the module is taught		3 rd semester		
Person responsible for the module		Dr. Tatang Shabur Julianto, M.Si.		
Lecturer		Dr. Tatang Shabur Julianto, M.Si. Lina Fauzi'ah, 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 + 200 (min) 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 inhal practicum. Inhal costs are determined by the laboratory.</p> <p>Student who inhal 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		Organic chemistry I dan Organic chemistry II		

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. Carry out practical activities by paying attention to aspects of work safety and security (K3) 2. Evaluate practical activities and use chemistry calculation in data analysis 3. Explain the theoretical concepts of organic reactions and organic chemistry laboratory techniques 												
Content	<ul style="list-style-type: none"> • Acid-Base Extraction • Solid Recrystallization and Melting Point Determination • Clove Oil Insulation by Steam Distillation • Isolation of Curcumin from Turmeric by Soxhletation Extraction • Manufacturing of Benzyl Acetate, Floral Scented Perfume Seeds • Analgesic Drug Manufacturing • Separation of Organic Compounds, Leaf Green Pigments by Thin Layer Chromatography (TLC) • Polymer Manufacturing, Hexamethylene Tetraamine 												
Study and examination requirements and forms of examination	Final score (NA) is calculated as follows:												
	<table border="1"> <thead> <tr> <th>Intended learning outcomes</th> <th>Weight (%)</th> <th>Technique of assessment</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>30</td> <td>Non test: performance observation</td> </tr> <tr> <td>2</td> <td>30</td> <td>Non test: lab work report</td> </tr> <tr> <td>3</td> <td>40</td> <td>Test: pretest and posttest</td> </tr> </tbody> </table>	Intended learning outcomes	Weight (%)	Technique of assessment	1	30	Non test: performance observation	2	30	Non test: lab work report	3	40	Test: pretest and posttest
	Intended learning outcomes	Weight (%)	Technique of assessment										
	1	30	Non test: performance observation										
2	30	Non test: lab work report											
3	40	Test: pretest and posttest											
Media employed	Organic chemistry laboratory equipment												
Reading list	<p>Armarego, W.L.F., and Perrin, D.D., 2000, Purification of Laboratory Chemicals, 4th edition, Oxford: Butter worth-Heinemann Publisher.</p> <p>Budimarwanti, C., Atun, S., dan Handayani, S. 2006. Petunjuk Praktikum Kimia Organik I Bermuatan Life Skill, Yogyakarta: FMIPA UNY.</p> <p>Tim Penyusun, 2017, Panduan Praktikum Kimia Organik Berorientasi Life SKill, Yogyakarta: Program Studi Pendidikan Kimia, UII.</p>												

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