



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

Module name		Physical labwork		
Module level, if applicable		1st Year		
Code, if applicable		SPK – 102		
Semester(s) in which the module is taught		1 st semester		
Person responsible for the module		Artina Diniaty, S.Pd.Si., M.Pd.		
Lecturer		Artina Diniaty, S.Pd.Si., M.Pd.		
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 6 (meeting)	17 hours
			Preparation: 200 (min) x 6 + 200 (min) Exam: 180 (min) +120 (min)	28hours
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		Physics		

Module objectives/intended learning outcomes	On successful completion of the course students should be able to: 1. Conduct practical activities by paying attention to aspects of work safety and security (K3) 2. Evaluate practical activities 3. Explain basic theoretical physics concepts		
Content	<ul style="list-style-type: none"> • Error calculation technique, • Thermometer calibration, • Density of solid, • Lens and refractive index, • Conductivity of electrolyte solution, Viscosity of liquid, Surface tension 		
Study and examination requirements and forms of examination	Final score (NA) is calculated as follows:		
	Intended learning outcomes	Weight (%)	Technique of assessment
	1	35	Non test: performance observation
	2	30	Non test: lab work report
	3	35	Written test (pretest, posttest)
Media employed	Basic physics laboratory equipment		
Reading list	Tim Penyusun, 2017, <i>Modul Praktikum Fisika Dasar I</i> , Yogyakarta: Laboratorium Fisika Dasar, UII. Giancoli, D., 2001, <i>Fisika Edisi kelima Jilid I</i> , Jakarta: Erlangga.		

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