Syllabus of Organic Chemistry Lab Work 1

Subject/ SKS : Kim 126/ 1

Prerequisite : General Chemistry Lab Work 1 & 2

Semester : 3

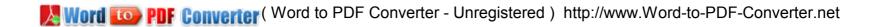
Competency : - Students able to purifying solid organic compounds by recrystallization and determine the melting point

- Students can do the synthesis of organic compounds as obtained by the application of the theory, and to characterize the extent of the physical properties of the synthesis products.

- Students can design and conduct simple experiments.

			Assessment		_	
Topics	Indicator	Learning Process	Kinds of	Type of	week	Relevant
			assessment	Instrument		Dooding
						Reading
Introduction to work in	Be trained in handling of	1. Assistance			(1)	
organic chemistry	various chemicals	2. Give information of			100 mnt	1
laboratory	Understand using	laboratory instructions				
	laboratory equipment found					
	in this laboratory	1. Introduction			(2)	
	Understand proper	Give explanation of			100 mnt	1
	laboratory report format to	 Laboratory preparations 				
	be use	Writing reports				
1. Pretest		Pretest	Test	Essay	(3)	1,2,3,4,5
					100 mnt	

Recrystallization and Determination of Melting Point a. Recrystallization b. Determination of melting point	Student able to determine solvents that are most commonly used for recrystallization, able to purifying solid organic compounds by recrystallization and determine the melting point	pretest practice writing observation sheet writing report	test Performance test	Essay Worksheet	(4) 100 mnt	1,2
3. Synthesis of Organic Compound a. Synthesis of Chloroform b. Synthesis of Amyl acetate c. Synthesis of phenyl benzoate d. Synthesis of acetone-2 ,4-dinitrophenylhidrazo-ne e. Synthesis of Benzylaniline	Students able to synthesis organic compounds, and to characterize the extent of the physical properties of the synthesis products	pretest practice writing observation sheet writing report	Test Performance test	Essay Worksheet	(5-10) 6x100 mnt	1,2,3,4,5
4. Free Choice Practicum	Students can design and conduct simple experiments	to design simple experiment practice writing observation sheet writing report	Performance test	Essay Worksheet	(11-13) 1x 100 mnt	1,2,3,4,5
6. Remedial					(14)	
7. Final Evaluation		Final examination	Performance test	Worksheet	(15) 100 mnt	1,2,3,4,5



Test	obiective	(16)	
1031	Objective	\ /	
		100 mnt	

Reference

1. C. Budimarwanti (2010) Handout of Organic Chemistry Lab. Work 1. FMIPA UNY

Additional reference

- 2. Doyle Mungal. 1980. Exsperimental Organic Chemistry. New York: John Wiley and Sons.
- 3. Furniss, B.S, P.W.G. Smith, A.R. Tatchel.1978. Vogel s Textbook of Practical Organic Chemistry. Fourth edition. London: Longman Group Limited.
- 4. Raymound, B. S. 1971. Exsperimental Organic Chemistry. New York: Barnes and Nobel Publisher
- 5. Rajak Bansal. 1980. Laboratory Manual in Organic Chemistry. New Delhi: Wiley Eastern Limited.

Responsible

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