MODULE HANDBOOK

Modul Name	Organic Synthetic		
Module Level	Bachelor of Chemistry		
Abbreviation, if applicable	4720103165		
Sub-heading, if applicable	-		
Course included in the	-		
module, if applicable			
Semester/term	6 th / Third year		
Modul coordinator(s)	Prof. Dr. Suyatno, M.Si. (C1),		
· /	Prof. Dr. Tukiran, M.Si. (C1)		
Lecturer(s)	Prof. Dr. Suyatno, M.Si. (C1),		
	Prof. Dr. Tukiran, M.Si. (C1)		
Language	Indonesian Language		
Classification within	Compulsory Course		
the curriculum			
Teaching format/class hours	2 hours lectures (50 min / hour)		
per week during			
the semester			
Workload	2 x 50 minutes lectures, 2 x 60 minutes structured activity,		
	2 x 60 minutes individual activity, 14 weeks per semester,		
	79,33 total hours per semester ~ 3.18 ECTS**		
Credit point	2 CU x 1.59 = 3.18 ECTS		
Requirement	Monofunction Organic Compounds and Polyfunction Organic		
21040210111	Compound		
Learning Outcomes General Competence (knowledge):			
	Student can conclude functionalitation of functional group functional group interconvertion, formation of carbon-carbon bond and carbon-heteroatom bond, target molecule, sinton and disconection approach, syntesis strategy, protective group chemoselective and stereoselective reaction.		
	Spesific Competence: At the end of the lecture, students can conclude functionalitation of functional group, functional group interconvertion, formation of carbon-carbon bond and carbon-heteroatom bond, target molecule, sinton and disconection approach, syntesis strategy, protective group, chemoselective and stereoselective reaction.		
Content	Course materials discuss the understanding of functionalitation of functional group, functional group interconvertion, formation of carbon-carbon bond and carbon-heteroatom bond, target molecule, sinton and disconection approach, syntesis strategy, protective group, chemoselective and stereoselective reaction.		
Study/exam	Students are considered to complete the course and pass if		
achievements	they obtain at least 40% of maximum final grade. The final grade (NA) is calculated based on the following ratio:		

	Assessment Components	Percentage of contribution	
	Participation	20%	
	Assignment	30%	
	Mid-semester test	20%	
	Final semester test	30%	
Media:	Computer, LCD, White board	3070	
Learning Methods	Lectures, discussion, problem solving, assignment		
Literature	 Carruthers, W. & Coldam, I. (2004). Modern Methods of Organic Synthesis. 4th Ed. New York: Cambridge University Press. Fessenden, R.J. dan Fessenden, J.S. (1998). Kimia Organik. Jilid 1 dan 2. Penerjemah AH Pudjaatmaka. Jakarta: Erlangga. Michael B. Smith, M.B. & March, J. (2007). March's Advanced Organic Chemistry, Reaction, Mechanism, and Structure, 6th ed. New Jersey: Jonh Wiley and Son, Inc. Solomon, T.W.G. & Fryhle, C.B. (2011). Organic Chemistry. New York: John Wiley & Sons, Inc. Tukiran dan Suyatno (2018). Sintesis Kimia Organik. Surabaya: Unesa University Press. Warren, S. & Wyatt, P. (2008). Organic Synthesis: the Disconnection Approach. 2nd Ed. London: John Wiley and Sons, Inc. 		
Notes:	scheduled instruction in a minutes); (b) structured a individual activity (60 Regulation of Indonesi Technology, and Higher Ed the Regulation of Indor Technology, and Higher Ed **1 CU = 1,59 ECTS acc	a Ministry of Research, ducation No. 44 Year 2015 jo. nesia Ministry of Research,	