MODULE HANDBOOK

Module Name	Mono-function Organic Compound		
Module Level	Bachelor		
Abbreviation, if applicable	8420403164		
Sub-heading, if applicable	-		
Course included in the	-		
module, if applicable			
Semester/term	3 rd /Second year		
Modul coordinator(s)	Dr. Ismono M.S.		
Lecturer(s)	Dra. Nurul Hidayati, M.Si.		
	Dr. Mitarlis, S.Pd., M.Si.		
	Dr. Rinaningsih, M.Pd.		
Language	Bahasa Indonesia		
Classification within the	Compulsory Course		
curriculum			
Teaching format/class hours	3 hours lectures (50 min / hour)		
per week during the semester			
Workload	3 x 50 minutes lectures, 3 x 60 minutes structured activity,		
	3 x 60 minutes individual activity, 14 weeks per semester,		
	119 total hours per semester ~ 4.77 ECTS**		
Credit point	3 CU = 3 x 1.59 = 4.77 ECTS		
Perquisite Course(s)	-		
Targeted learning outcomes:	CLO 1 Students can use information based on experience and cases in everyday life, other learning resources, and ICT to support understanding of the concept of monofunctional compound with discussions, presentations, and collaboration to study Organic Chemistry 1: Monofunctional Compound. CLO 2 Students have knowledge about structure theory of organic compound, by doing scientific process skills, critical, analytical, and creative thinking skills, as well as problems solving skills. CLO 3 Having a responsible attitude by applying an understanding of learning material in the organic chemistry 1 (monofunctional compound) about the properties of compounds in implementation in everyday life. CLO 4 Students be able to participate in society and have a commitment to developing self-potential in order to build character to achieve organizational goals.		
Content:	 Introduction: Definition of organic compound, structure theory and the properties of organic compounds. The structure, nomenclature, isomers, and properties and synthesis of alkanes, alkenes and alkyne compounds. 		
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Study / exam achievements:	 The structure, nomenclature and properties of aromatic hydrocarbons and the application of substitution reactions for the synthesis of other compounds. The structure, nomenclature, properties and synthesis of alkyl halogenides. Stereochemistry theory includes: geometric isomers in alkenes, geometric isomers in cyclic compounds, conformation of open-chain compounds, cyclic compound forms, cyclohexane conformers. Structure, nomenclature, classification of properties, differences and similarities as well as the synthesis of alcohol - phenol - ether compounds. Structure, nomenclature, properties and is able to predict isomers and can synthesize carbonyl compounds Structure, nomenclature, isomers, properties especially acidity and synthesis of carboxylic acids and their derivatives Structure, nomenclature, isomers, properties and synthesis of amine compounds. Structure, nomenclature, isomers, properties and synthesis of amine compounds. 	
	Assessment Components Participation	Percentage of contribution 20%
	Participation Assignment	30%
	Mid-semester test	20%
	Final semester test	30%
Media:	Computer, LCD, White board, chemicals and equipment in laboratory for doing practicum	
Learning Methods	Individuals assignment, group assignment, discussion, presentation, and practicum	
References:	 Fessenden, Ralph J. and Fessenden, Joan S. 1995. Organic Chemistry, Fifth Edition. Solomons G., TW. 2011. Organic Chemistry tenth edition. New York: John Wiley & Sons Inc. The article which is related to the topic of monofunctional compounds from website resources 	
Notes:	*1 CU in learning process = three periods consist of: (a) scheduled instruction in a classroom or laboratory (50 minutes); (b) structured activity (60 minutes); and (c) individual activity (60 minutes) according to the Regulation of	

Indonesia Ministry of Research, Technology, and Higher
Education No. 44 Year 2015 jo. the Regulation of Indonesia
Ministry of Research, Technology, and Higher Education No.
50 Year 2018.

**1 CU = 1.59 ECTS according to Rector Decree Of Universitas Negeri Surabaya No. 598/Un38/Hk/Ak/2019