MODULE HANDBOOK

Module Name	Organometallic Compound	
Module level	Bachelor	
Abbreviation, if applicable	3074112064	
Sub-heading, if applicable	-	
Course included in the		
module, if applicable	-	
Semester/term	7 th / Fourth Year	
Module coordinator(s)	Dina Kartika Maharani, S.Si., M.Sc.	
Lecturer(s)	Prof. Dr. Sari Edi Cahyaningrum, M.Si.	
	Dr. Amaria, M.Si.	
	Dina Kartika Maharani, S.Si., M.Sc.	
Language	Indonesian	
Classification within the	Elective Course	
curriculum	Elective Course	
Teaching format/class		
hours per week during the	2 hours lecturers (50 min per hours)	
semester:	2 - 50 - i - t - 1 - t 2 - 60 - i - t t t 1 - t - i - t -	
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 points:	2 CU x 1.59 = 3.18 ECTS	
Credit points.	Have taken Basic Chemistry 1, Basic Chemistry 2, Basic	
Prerequisite course(s):	Theory of Inorganic, Coordination Chemistry, Transition	
rerequisite course(s).	Elements of Chemistry	
Targeted learning outcomes:	CLO1 Utilizing learning resources and ICT to support mastery of concepts and theories of organometallic compounds CLO 2 Have knowledge of concepts, properties, similarities and differences between organometallic compounds and complex compounds (coordination compounds), structures and bonds, types of reactions and synthesis of organometallic compounds, use, stability and role of organometallic compounds in the environment. CLO 3 Make conclusions and analyze concepts, properties, similarities and differences between organometallic compounds and complex compounds (coordination compounds), structures and bonds, types of reactions and synthesis of organometallic compounds, use, stability and role of organometallic compounds in the environment CLO 4 Have a caring and responsible attitude in applying organometallic compounds in the environment	
Content:	 The study of the concepts of organometallic compounds, The properties of organometallic compounds, Similarities and differences between organometallic compounds and complex compounds (coordination compounds), Structure and bonding, 	

Study / exam achievements:	 Types of reactions and synthesis of organometallic compounds, The use of organometallic compounds, Stability and role of organometallic compounds in the environment. Students are considered to complete the course and pass if 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 Assignment 30% 		
	Mid-semester test	20%	
	Final semester test	30%	
Media:	Computer, LCD, White board		
Learning Methods	Providing information, reviewing journals, group discussions and presentations.		
Literature:	 Shriver, D.F., Atkins,P.W. and Langford, C., 1990. Inorganic Chemistry, Oxford University Press, Tokyo. Crabtree, Robert H, 1988. The Organometallic Chemistry of The Transition Metals, John Wiley & Sons, Singapore. Douglas, B.E.; McDaniel, D. H.; Alexander, J.J., 1994. Concepts and Models of Inorganic Chemistry, Third Edition, John Wiley & Sons, Inc. New York. Huheey, J.E.; Keiter, E.A.; Keiter, R.L., 1990, Inorganic Chemistry, Prinsciples of Structure and Reactivity, Fourth Edition, Harper Collins College Publishers. Organometal Chemistry Journal 		
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		