MODULE HANDBOOK

Module Name	Organometal Chemistry
Module level	Bachelor
Abbreviation, if applicable	4720102162
Sub-heading, if applicable	-
Course included in the module, if applicable	-
Semester/term	7th Semester
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 curriculum	Elective Course
Teaching format/class hours per week during the semester:	2 hours lecturers (50 min per hours)
Workload:	1 CU for bachelor degree equals to 3 workhours per week or 170 minutes (50' face to face learning, 60' structured learning, and 60' independent learning). In one semester, courses are conducted in 14 weeks (excluding mid and end-term exam). Thus, 1 CU equals to 39.67 workhours per semester. One CU equals to 1.587 ECTS.
Credit points:	2 x 1.587 = **3.174 ECTS**
Prerequisites course(s):	Have taken basic chemistry courses I, II, Inorganic Chemistry I, II, IV
Targeted learning outcomes:	CLO1 Utilizing learning resources and ICT to support mastery of concepts and theories of organometallic compounds CLO2 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. CLO3 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 CLO4 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, • Types of reactions and synthesis of organometallic compounds, • The use of organometallic compounds, • Stability and role of organometallic compounds in the environment.
Study / exam achievements:	Students are considered to be competent and pass if at least get 55 Final score is calculated as follows: 20% participation + 30% assignment + 20% middle exam (UTS) & 30% final exam (UAS) Table index of graduation • A = 4 (85 ≤-≥ 100) • A- = 3,75 (80 ≤-< 85) • B+ = 3,5 (75 ≤- < 80) • B = 3 (70 ≤-< 75) • B- = 2,75 (65 ≤-<75) • C+ = 2,5 (60 ≤-<65) • C = 2 (55 ≤-<60) • D = 1 (40 ≤-<55) • E = 0 (0 ≤-<40)
Media:	Computer, LCD, White board
Learning Methods	Providing information, reviewing journals, group discussions and presentations.
Literature:	1. Shriver , D.F., Atkins,P.W. and Langford, C., 1990. Inorganic Chemistry, Oxford University Press, Tokyo. 2. Crabtree, Robert H, 1988. The Organometallic Chemistry of The Transition Metals, John Wiley & Sons, Singapore. 3. Douglas, B.E. ; McDaniel, D. H. ; Alexander, J.J., 1994. Concepts and Models of Inorganic Chemistry, Third Edition, John Wiley & Sons, Inc. New York. 4. Huheey, J.E. ; Keiter, E.A. ; Keiter, R.L., 1990, Inorganic Chemistry, Prinsciples of Structure and Reactivity, Fourth Edition, Harper Collins College Publishers. 5. Organometal Chemistry Journal