Modul Handbook

Module Name	Coordination Chemistry
Module level	Bachelor
Abbreviation, if applicable	4720102064
Sub-heading, if applicable	-
Course included in the	-
module, if applicable	
Semester/term	5 st /3 rd Year
Module coordinator(s)	Dr. Amaria, M.Si.
Lecturer(s)	Prof. Dr. Sari Edy Cahyaningrum. M.Si.
	Dina Kartika Maharni, S.Si., M.Sc.
Language	Indonesian
Classification within the curriculum	Compulsory Course
Teaching format/class hours per week during the	2 hours lecturers (50 min per hours)
semester:	
Workload:	2 hours lectures, 2 hours structured activity, 2 hours individual activity, 14 weeks per semester, total 84 hours per semester ~ 2.8 ECTS
Credit points:	2 SCU
Prerequisites course(s):	-
Targeted learning outcomes:	CLO 1:Students are able to understand the concepts of covalent bonding, ligands, stereochemistry, stability, magnetic properties and electronic spectra of coordinating compounds CLO 2: Students are able to structure and predict the properties of coordination compounds CLO 3: Students are able to communicate both verbally and in writing the concepts of chemical bonds, stereochemistry, stability, magnetic properties, and electronic spectra of coordinating compounds CLO 4: Students Have a caring and responsible attitude in applying coordination compounds in the environment
Content:	Introduction: The properties, the development of coordination compounds and the nomenclature Bonds in coordination compounds: Effective Atomic Number, Valence Bond Theory, Crystal Field Theory, Molecular Orbital Theory Geometry and Isomerism of Coordination compounds: Various isomerism in coordination compounds, Geometry isomersm, Optic isomerism Stabilty of Coordination Compounds: Stability of the complex thermodynamic and kinetic, Reaction steps for the reaction of the formation of the coordination compound, Factors affecting the stability of coordination compounds.

nts are considered to be competent and pass if at least score is calculated as follows: 20% participation + assignment + 20% middle exam (UTS) & 30% final (UAS) index of graduation $A = 4 (85 \le -\ge 100)$ $A - = 3.75 (80 \le -< 85)$ $B + = 3.5 (75 \le -< 80)$ $B = 3 (70 \le -< 75)$ $B - = 2.75 (65 \le -< 75)$
$C + = 2.5 (60 \le -45)$ $C = 2 (55 \le -46)$ $D = 1 (40 \le -40)$ $E = 0 (0 \le -40)$
outer, LCD, White board
duals assignment, group assignment, discussion, and ntation
asolo, F and Johnson, R.C. 1986. Coordination nemistry, 2nd Edition. New York: W.A. Benjamin, Inc. giarto, Bambang. 2006. Teori Senyawa Koordinasi. rabaya: Unesa University Press nagliano, J. V. And Vallarino, L. M., 1969. pordination Chemistry, Massachusetts: D. C. Heath and