MODULE HANDBOOK

Module Name	**Mechanism of Inorganic Reaction**
Module Level	Bachelor
Abbreviation, if applicable	3074212056
Sub-heading, if applicable	-
Course included in the module, if applicable	-
Semester/term	7th/ fourth year
Module coordinator(s)	Dr. Amaria, M.Si.
Lecturer(s)	**Prof. Dr. Sari Edi C., M.Si. ; Dr. Amaria, M.Si.** ; **Dina Kartika M., S.Si., M.Sc.**
Language	Bahasa Indonesia
Classification within the curriculum	Compulsory
Teaching format/class hours per week during the semester	2 hours lectures (50 min / hour)
Workload	Total workload 128 hours per semester which consists of 2 hours for lecture, 3 hours for structured activities, 3 hours for individual activities, and 16 weeks per a semester (3.18 ECTS)
Credit point	2 SCU
Requirement	Basic chemistry I, II, Inorganic Chemistry I (Basic Theory of Inorganic) and Coordination Chemistry
Target Learning Outcomes	PLO 1 Mastering the concepts of structure, dynamics and energy, as well as the basic principles of separation, analysis, synthesis and characterization of micromolecular compounds and their applications. PLO 5 Able to apply logical, critical, systematic and innovative thinking in the context of developing or applying science and technology by paying attention to and applying humanities values according to the field of chemistry in problem solving.
Content	Studies on thermodynamic stability, stereochemistry of complex compounds, mechanism and kinetics of substitution reactions of octahedral and square complexes in a group collaboration forum with discussion activities
Study/exam achievements	Students are considered to be competent and pass if at least get 55 Final score is calculated as follows: 25% experiment + 20% Task + 20% sub summative test + 35% final exam

	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, Presentation, and Books.
Learning Methods	Individual assignment, group assignment, discussion, and presentation
Literature:	1. Basolo, F. and Pearson R.G. 1973. Mechanisms of Inorganic Reactions., Wiley Eastern Private LTD. New Delhi. 2. Benson, D., 1968. Mechanisms of Inorganic Reactions in Solution, McGraw-Hill, London. 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. 5. Miessler, G.L. & Tarr, D. A., 1991, Inorganic Chemistry, Prentice Hall International, Inc., London.