

Module Handbook

Module Name	Inorganic Chemistry				
Module Level	Higher Diploma				
Code, if applicable	VKD217				
Subtitle, if applicable	-				
Courses, if applicable	-				
Semester(s) in which the module is taught	2 nd semester				
Person responsible for the module	Bayu Wiyantoko, S.Si., M.Sc. Ganjar Fadillah, S.Si., M.Si.				
Lecturer	Bayu Wiyantoko, S.Si., M.Sc. Ganjar Fadillah, S.Si., M.Si.				
Language	Bahasa Indonesia				
Relation to curriculum	Compulsory				
Type of teaching, contact hours	Lectures: 100 min/week Structured Assignments/structured activities: 120 min/week Online Activity/individual study: 120 min/week				
Workload	Total Workload	91 hours; 2 CU			
		Face to face teaching	Structured activities	Independent study	Exam
	Hours	24	28	28	11
Credit Points	2 CU/3,4 ECTS				
Requirements according to the examination regulations	75% minimum requirements of attendance				
Recommended prerequisites					
Module objectives/intended learning outcomes	<p>PLO 3: Able to express basic concepts of chemistry, chemical analysis, operation and maintenance of chemical instruments that can be applied in their work</p> <p>Subject LO:</p> <p>Students are able to determine the properties of elements based on periodic table elements</p> <p>Students are able to determine molecular geometric shapes, able to describe the simple molecular orbital diagrams</p> <p>Students are able to predict precipitation reactions</p> <p>Students are describe the formation of coordination bonding</p> <p>Students are determine the characteristics of solids</p>				
Content	<ol style="list-style-type: none"> 1. Elemental chemistry and periodic element 2. Molecular structure 3. Solubility equilibrium 4. Coordination chemistry 5. Solid chemistry 				
Study and examination requirements and forms of examination	Quizzes (30%), assignments (32%), Midterm exams (22%), final exams (16%)				
Media employed	Google classroom, youtube, zoom meeting, google form, google doc				

Reading list

1. Chang, R., 2003. Basic Chemistry: Nuclear Concept Volume:1. Erlangga: Jakarta
2. Chang, R., 2003. Basic Chemistry: Nuclear Concept Volume:2. Erlangga: Jakarta
3. Meisler, G.I., Tarr, D.A., 1991, Inorganic Chemistry, Prentice Hall, New Jersey
4. Saputro, A.N.C., 2015. Basic Concept of Coordination Chemistry. Deepublish: Yogyakarta