

Inorganic Chemistry

Module Name	Inorganic Chemistry
Module Level, if applicable	Beginner
Code if Applicable	220221171
Subtitle, if applicable	-
Courses, if applicable	220221171 Inorganic Chemistry
Semester(s) in which the module is taught	1 st
Person responsible for the module	Drs. Mujianto, M. P
Lecturer	Drs. Mujianto, M. P
Language	Indonesian
Relation to curriculum	Compulsory Course for undergraduate program in the Food Technology Department, Faculty of Agriculture and Animal Science
Type of teaching	Lecture, Project, practicum
Workload	<ul style="list-style-type: none"> ● Lecture: 2 SKS X 50 minutes X 16 weeks ● Practicum: 1 SKS x 170 minutes x 16 weeks ● Project: 2 SKS X 60 minutes X 16 weeks ● Independent learning: 2 sks X 60 minutes X 16 weeks
Credit points	3 SKS X 1.5 = 4,5 ECTS
Requirements according to the examination regulations	<ol style="list-style-type: none"> 1. Registered in this course 2. Minimum 80% attendance in this course
Recommended prerequisites	-
Module Objectives (Intended learning outcomes)	<p>On successful completion of this course, the student should be able to:</p> <ul style="list-style-type: none"> ● Understand and do practice questions that relate to classification of inorganic compounds (metal compounds) in the periodic table of metals ● Understand and do practice questions that relate to chemical bonds (Lewis structure, ionic bonds, single/double covalent bonds, hydrogen bonds, coordinate bonds, and electronegativity properties) ● Understand and do practice questions that relate to molecular form (linear, trigonal planar, tetrahedral, trigonal, bipyramidal, or octahedral) ● Understand and do practice questions that relate to valence theory and molecular orbital theory

	(orbital bonding and antibonding)
Module Content	Inorganic chemistry studies the classification of matter and the major chemical reactions that involve them, and their relationship to the characteristics of materials and food products. Inorganic chemistry also discusses the concept of electron configuration with atomic properties, the periodic system of elements, chemical bonds, molecular structure, and stoichiometry, including solutions of acids and bases.
Study and examination requirements and forms of examination	Cognitive: Midterm exam, Final exam, Quizzes, Assignments Affective: Assessed from the element /variables achievement, namely (a) Contributions (attendance, active, role, initiative, and language), (b) Being on time, (c) Effort.
Media employed	Classical teaching tools with white board and power point presentation
Recommended Literature	For Class A. Compulsory <ol style="list-style-type: none"> 1. Sastrohamidjojo, H. 2012. Kimia Dasar. Yogyakarta : UGM Press. 2. Brady, J. E. (Editor: Syarifudin, Yayan Wulandari). 2000. Kimia universitas asas dan struktur jilid 1. Tangerang : Binarupa Aksara 3. Brady, J. E. (Editor: Syarifudin, Yayan Wulandari). 2000. Kimia universitas asas dan struktur jilid 2. Tangerang : Binarupa Aksara B. Option <ol style="list-style-type: none"> 1. Herring, E. G. 2007. Kimia Dasar : Prinsip-Prinsip & Aplikasi Modern Jilid 1. Jakarta : Erlangga. 2. Herring, E. G. 2007. Kimia Dasar : Prinsip-Prinsip & Aplikasi Modern Jilid 2. Jakarta : Erlangga.
Date of Last Amendment	22 nd Agustus 2022