## **MODULE HANDBOOK**

Module Name	Inorganic Chemistry 3
Module Level	Bachelor
Abbreviation, if	3074213046
applicable	
Sub-heading, if	-
applicable	
Course included in	-
the module, if	
applicable	eth ( 1 + 1
Semester/term	6 <sup>th</sup> / third year
Module	Dina Kartika Maharani, S.Si., M.Sc
Coordinator(s)	Dr. Ashmad Lutfi M.Dd. Dr. Mushlis M.Dd. Dina
Lecturer(s)	Dr. Achinau Luui, M.Pu.; Dr. Muchins, M.Pu.; Dina Kartika M S Si M Sc Kusumawati D S Pd M Pd ·
	Rusly Hidavah. S.Si., M.Pd.
Language	Bahasa Indonesia
Classification within	Compulsory
the curriculum	1 5
Teaching	2 hours lectures (50 min / hour)
format/class hours	
per week during	
the semester	
Workload	2 hours lecture, 2hours structured activities, 2 hours
	individual activities, 15
	week a semester, and total 90 hours a semester 3.5 ECTS *
Credit point	
Requirement	General Chemistry II
Learning Outcomes	General Competence (knowledge):
	Students can mastering theoretical concepts on the structure,
	dynamics and energy of chemicals, as well as the basic
	principles of separation, analysis, synthesis and
	characterization of main group elements
	Specific Competence :
	At the end of the lecture students can understand the position
	nhysico chemical properties laboratory manufacture types of
	compounds and their uses of Alkeli Metals. Alkeline Forth
	watala Daran Carban Nitragan Owygan Halagang Nabla
	metals, Doron, Cardon, Milrogen, Oxygen, Halogens, Noble
	Gases.

Content	Course materials discuss the understanding of Role and status
	of theory in Inorganic chemistry. Origin of elements.
	Classification of elements in the periodic system: Hydrogen
	and its compounds. Desition in the periodic table. Division and
	and its compounds: Position in the periodic table, Physical and
	chemical properties, Isotopes of hydrogen, Hybrids of
	elements, Water and related matters; Source and extraction,
	physico-chemical properties and uses, manufacture, properties
	and uses: Alkali Metals, Alkaline Earth metals, Boron, Carbon,
	Nitrogen, Oxygen, Halogens, Noble Gases
Study/exam	Students are considered to be competent and pass if at least
achievemen	get 55
ts	
	Final score is calculated as follows: 20% assignment + 30%
	Task + 20%
	Table index of graduation
	• $A = 4 (85 - 100)$
	• $A = 3,75 (80 - 85)$
	• $B + = 3,5 (75 - 80)$
	• B = $3(70 - 75)$
	• $B_{-} = 2,75 (65 - 75)$
	• $C + = 2,5 (60 - 65)$
	• $C = 2(55 - 60)$
	• $D = 1 (40 - 55)$
	• $E = 0 (0 - 40)$
Forms of media	Computer, LCD, White board
Learning Methods	Lectures, discussion, assignment
Literature	1. Lee, J.D. 1991. Concise Inorganic Chemistry. Four
	Edition. London: Chapman & Hall.
	2. Madan, R.D. 1997. Modern Inorganic Chemistry. New
	Delhi: S. Chand and Company LDT.
	3. Sugiarto, B. dkk. 1997. Kimia Anorganik. Surabaya:
	Unipress IKIP Surabaya.
	4. Perry, Dale L. 2011. Handbook of Inorganic Compounds,
	Second Edition (Hardcover) – May 18, 2011. ISBN-13:
	000-1439814619 ISBN-10: 14398146
Note	1. This course is divided into two parallel classes with the
	materials and ingredients but given the same test in the same
	time with different lecturers.
	2. This course is half of the subjects of the basic organic and
	are in a series with the course of Organic Chemistry II in
	addition to the Organic Chemistry I and Organic Chemistry
	It is a subject which underlies subjects- more courses in
	organic chemistry
	organie enemistry.
	*Total ECTS = {(total hours workload x 50 min) / 60 min) /
	25  hours
	Each ECTS is equals with 25 hours