



**HASANUDDIN
UNIVERSITY**

2023 MODULE DESCRIPTION

BACHELOR PROGRAM
AGRICULTURAL ENGINEERING
FACULTY OF AGRICULTURE
HASANUDDIN UNIVERSITY
2023



Elementary Chemistry

Semester 1

Module designation	Elementary Chemistry
Semester(s) in which the module is taught	I
Person responsible for the module	Syahrudin Kasim
Language	<i>Indonesia</i>
Relation to curriculum	<i>Compulsory</i>
Teaching methods	<i>Lecture</i>
Workload (incl. contact hours, self-study hours)	<p><i>(Estimated) Total workload:</i> <i>2 SKS = 3.4 ECTS = 91.8 hours</i> <i>> Lecture = 23.3 hours</i> <i>> Exercise = 28 hours</i> <i>> Sel Study = 28 hours</i> <i>> Exam = 4 hours (MID term and final)</i> <i>>Exam preparation= 8.5 hours</i></p>
Credit points	Lecturer assessment: attendance-10%, laboratory report 50%, examination 40%.
Required and recommended prerequisites for joining the module	
Module objectives/intended learning outcomes	1. Having a comprehensive understanding on the theoretical concept and principle of food science and technology in a broad sense (humanity, basic, and applied science) to support their expertise in food science and technology. 2. Be able to perform food chemical and physical analysis in supporting food quality control, and food for special health purposes.
Content	This module delivers material about atomic structure, table periodic of chemistry, chemical bond, solution, chemistry and acid - base equilibrium, thermodynamic in chemistry, chemical kinetics, hydrocarbon, functional group, acid-base organic and its derivatives, basic of biomolecular.
Examination forms	
Study and examination requirements	Study form are group project, laboratory sessions, lectures, and lessons. Examination form is written exam, project work, laboratory session or essay writing. During written exam, student is not allowed to use textbooks. During laboratory session, a student must available logbook and showed written report of practical experiments of what has been taught in lecture or
Reading list	1. handbook Basic Chemistry, Tim Dosen Chemistry UPT MKU Universitas Hasanuddin, 2012