

## Module Handbook

Module Name:	General Chemistry I (Practical Work)
Module Level:	Bachelor
Abbreviation, if applicable:	KID102
Sub-heading, if applicable:	-
Courses included in the module, if applicable:	-
Semester/term:	Odd (1 <sup>st</sup> semester)
Module coordinator(s):	MKWU Teaching Staff
Lecturer(s):	MKWU Teaching Staff
Language:	Bahasa Indonesia
Classification within the curriculum	Compulsory Course / <del>Elective Studies</del>
Teaching format / class hours per week during semester:	300 minutes/ week
Workload:	100 min lecture + 100 min structural assignment + 100 min self-assignment x 13 weeks; total 3900 min = 65 hours 65/25 = 2.6 ECTS
Credit Points:	1
Requirements:	-
Learning goals/competencies:	<p><b>General Competence (Knowledge)</b> Students are able to explain the concept of chemistry including organic and inorganic compounds properly.</p> <p><b>Specific Competence:</b></p> <ol style="list-style-type: none"> <li>1. Able to practice determining the properties of chemical bond</li> <li>2. Able to practice determining Molar volume</li> <li>3. Able to practice determining rate of reaction</li> <li>4. Able to practice redox reaction</li> <li>5. Able to practice determining the properties of base solution</li> <li>6. Able to practice acid-base titration</li> <li>7. Able to practice determining properties of Ethene and Ethyne</li> <li>8. Able to practice determining the properties of alcohol, phenol, aldehydes, ketones</li> <li>9. Able to practice determining the properties of carbohydrates</li> <li>10. Able to practice determining the properties of proteins</li> </ol>
Content:	Chemical bond, stoichiometry, rate of reaction, redox, solution, chemical carbon, carbohydrates, proteins
Attribute soft skill	Discipline and cooperation
Study/exam achievements:	Students are considered to be competent and pass if at least get 40 of maximum mark of the exams (UTS and UAS), structured activity (group discussion). Final score (NA) is calculated as follow: 20% paper project+30% midterm + 40% final exam + 10% soft skill

	<p>Final index is defined as follow:</p> <p>A : 75 – 100</p> <p>AB : 70 - 74.99</p> <p>B : 65 - 69.99</p> <p>BC : 60 - 64.99</p> <p>C : 55 - 59.99</p> <p>D : 40 - 54.99</p> <p>E : 0 - 39.99</p>
Forms of Media:	Laboratory equipment
Learning Methods	Practical work
Literature	<p>a. Kaiser, R.W. and Griffith, C. H., 1991. <i>General Chemistry Laboratory Manual</i>, 2<sup>nd</sup> ed., Ginn Press, Kentucky.</p> <p>b. Plumber, O.R., 1978, <i>An Introduction to practical Biochemistry</i>, 2<sup>nd</sup> ed., Mc graw Hill Book Co, New York.</p>
Notes	The requirement of general chemistry II (Practical Work)