

## Module Handbook

Modul Name	<b>Organic Chemistry I (Practical)</b>
Module Level	Bachelor
Abbreviation, applicable if	KIO 202
Sub-heading, applicable if	-
Course included in the module, if applicable	-
Semester/term	4 <sup>th</sup> / second year
Modul coordinator(s)	Dr. Nanik Siti Aminah, M.Si. (kelas C-1), Dr. Mulyadi Tanjung, M.Si. (C-2)
Lecturer(s)	Dr. Alfinda Novi Kristanti, DEA (kelas C-1), Dr.
Language	Bahasa Indonesia
Classification within the curriculum	Compulsory course
Teaching format/class hours per week during the semester	2 hours laboratory work (50 min / hours)
Workload	2 hours doing worksheet and pretest preparation, 2 hours laboratory work, 2 hours group discussion, searching literature and writing report, 13 week per semester, and total 78 hours per semester ~ 2.6 ECTS *
Credit point	1
Requirement	Organic Chemistry I
Learning Outcomes	<p><b>General competence (Skills):</b> At the end of the semester, students are expected to be able to apply the methods and principles of extraction, recrystallization, distillation, drying the solvent and the determination of the purity of organic compounds based on physical constants in the synthesis process simple organic compounds.</p> <p><b>Specific competence:</b></p> <ol style="list-style-type: none"> <li>1. Be able to extract organic compound</li> <li>2. Be able to determine the purifying the organic compound</li> <li>3. Be able to danalyze the structure of organic compound</li> </ol>
Content	The Synthesis lab materials include simple organic compounds, followed and equipped with the purification process, drying solvent distillation, extraction, recrystallization, chromatography and determination of the purity of organic compounds based on physical constants.
Study/exam achievements	<p>Students are considered to be competent and pas if at least have finished 100% practical work report and pass the examination</p> <p>Final score is calculated as follows : Pre-test 20%, practicum 50%, Final practical work examination 30%</p> <p>Final score graduation index</p> <ul style="list-style-type: none"> <li>• 0 - 44,999 E,</li> <li>• 45 - 54,999 D,</li> <li>• 55 - 59,999 C,</li> <li>• 60 - 64,999 BC,</li> <li>• 65 - 69,999 B,</li> </ul>

	<ul style="list-style-type: none"> <li>• 70 - 74,999 AB,</li> <li>• 75 - 100 A</li> </ul>
Learning Methods	Teamwork, discipline
Forms of media	Organic chemistry laboratory equipment includes: distillation equipment, chromatography and other glassware.
Literature	<ol style="list-style-type: none"> <li>1. Chavanne, M., Jullien, A., <i>Chimie Organique Experimentale</i>, 2e edition, Modulo Editeur, Quebec, 1991</li> <li>2. Furniss, B.S., Hannaford, A.J., Smith, P.W.G., Tatchell, A.R., <i>Vogel's Textbook of Practical Organic Chemistry</i>, Longman, 1989</li> </ol>
Note	<p>Practical Organic Chemistry I held on the 4<sup>th</sup> semester with the consideration they should take organic chemistry I courses in the 3<sup>rd</sup> semester .</p> <p>*Total ECTS = {(total hours workload x 50 min ) / 60 min } / 25 hours  <b>Each ECTS is equals with 25 hours</b></p>