<table>
<tr><td colspan="2">  </td><td colspan="4">Faculty of Natural Sciences and Mathematics
Chemistry Department
Chemistry Education Study Program</td></tr>
<tr><td colspan="2">Module name</td><td colspan="4">Inorganic Chemistry Lab Work</td></tr>
<tr><td colspan="2">Module level, if applicable</td><td colspan="4">2nd year</td></tr>
<tr><td colspan="2">Code, if applicable</td><td colspan="4">SPK – 322</td></tr>
<tr><td colspan="2">Semester(s) in which the module is taught</td><td colspan="4">3rd semester</td></tr>
<tr><td colspan="2">Person responsible for the module</td><td colspan="4">M. Miqdam Musawwa, M.Sc.</td></tr>
<tr><td colspan="2">Lecturer</td><td colspan="4">M. Miqdam Musawwa, M.Sc.
Widinda Normalia Arlianty, M.Pd.</td></tr>
<tr><td colspan="2">Language</td><td colspan="4">Indonesia</td></tr>
<tr><td colspan="2">Relation to curriculum</td><td colspan="4">Compulsory</td></tr>
<tr><td>Teaching methods</td><td>Class size</td><td>Forms of active participation</td><td colspan="3">Workload 45 hours</td></tr>
<tr><td rowspan="2">Practicum</td><td rowspan="2">20-25</td><td rowspan="2">Laboratory work, discussion</td><td>Laboratory work: 170 (min) x 8 (meeting)</td><td colspan="2">23 hours</td></tr>
<tr><td>Preparation: 120 (min) x 8 + 200 (min) Exam: 100 (min)+200 (min)</td><td colspan="2">22 hours</td></tr>
<tr><td colspan="2">ECTS credit</td><td colspan="4">1.61</td></tr>
<tr><td colspan="2">Credit points</td><td colspan="4">1 SCU</td></tr>
<tr><td colspan="2">Requirements according to the examination regulations</td><td colspan="4">Student must follow all the series of practicum activities. Violation of this will result in giving an E value (failing practicum).
Student who do not participate in the practicum for 3 (three) times without justified reasons may not attend the next practicum and are considered to have resigned from the practicum.
Student who for some reason cannot follow the practicum according to the predetermined schedule can apply for inhal practicum. Inhal costs are determined by the laboratory.
Student who inhal allowed for a student a maximum of 3 (three) times.
Student who have not completed laboratory expenses such as tools, materials or tasks (if any) within a certain time will be given a K or F value.</td></tr>
<tr><td colspan="2">Recommended prerequisites</td><td colspan="4">N/A</td></tr>
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<tr><td>Related course</td><td>Inorganic chemistry I dan Inorganic chemistry II</td></tr>
<tr><td>Module objectives/intended learning outcomes</td><td>On successful completion of the course students should be able to:
1. Conduct practical activities in accordance with practical procedures.
2. Apply the basic principles of complex compound analysis
3. Apply stoichiometric concepts to complex compounds
4. Explain the concept of reaction of inorganic compound</td></tr>
<tr><td>Content</td><td>• Determination of the molecular formula of a complex compound,
• Preparation of complex salts and double salts,
• Acid strength in aqueous medium,
• Stabilization and isolation of Copper(I) compounds,
• Making alum from waste aluminium foil and cans,
• Stoichiometry of the reaction of Cu metal with Fe^{3+} salt</td></tr>
<tr><td>Study and examination requirements and forms of examination</td><td>Final score (NA) is calculated as follows:
<table>
<tr><th>Intended learning outcomes</th><th>Weight (%)</th><th>Technique of assessment</th></tr>
<tr><td>1</td><td>30</td><td>Non test: performance observation</td></tr>
<tr><td>2</td><td>15</td><td>Non test: lab work report</td></tr>
<tr><td>3</td><td>15</td><td>Non test: lab work report</td></tr>
<tr><td>4</td><td>40</td><td>Test: pretest and posttest</td></tr>
</table></td></tr>
<tr><td>Media employed</td><td>Inorganic chemistry laboratory equipment</td></tr>
<tr><td>Reading list</td><td>Canham, G.R., 2000, Descriptive Inorganic Chemistry, Second edition, W.H.
Housecroft, 2007, Inorganic Chemistry, (3rd Ed.), Prentice Hall.
Scerri, E.R., 2006. The Periodic Table: Its Story and Its Significance, USA: Oxford University Press.
Tim Penyusun, 2017, Buku Panduan Praktikum Kimia Anorganik, Yogyakarta: UII</td></tr>
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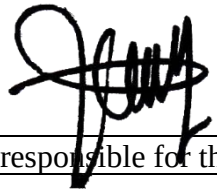
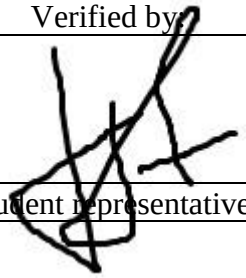
Prepared by:	Verified by:	Authorized by:
		
Person responsible for the module	Student representative	Coordinator Program