



UNIVERSITAS NEGERI YOGYAKARTA
 FACULTY OF MATHEMATICS AND NATURAL SCIENCES
 DEPARTMENT OF CHEMISTRY
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Bachelor of Science in Chemistry

MODULE HANDBOOK

Module name:	Electrochemical Analysis						
Module level, if applicable:	Undergraduate						
Code:	KIM 6241						
Sub-heading, if applicable:	-						
Classes, if applicable:	-						
Semester:	7 st						
Module coordinator:	Prof. Dr. Suyanta, M. Si						
Lecturer(s):	Prof. Dr. Suyanta, M. Si Siti Marwati, M. Si						
Language:	Bahasa Indonesia and English						
Classification within the curriculum:	Elective Subject						
Teaching format / class hours per week during the semester:	100 minutes lectures, 120 structured activities and 120 individual study per week						
Workload:	Total workload is 27 hours per semester which consists of 100 minutes lectures, 120 structured activities and 120 individual study per week for 16 weeks						
Credit points:	2 SKS (3 ECTS)						
Prerequisites course(s):	Fundamental of analytical chemistry						
Course Outcome:	<p>After taking this course, the students are expected to be able to:</p> <table border="1" style="width: 100%;"> <tr> <td>CO1</td> <td>Committed to understanding of electrochemistry concepts in the fields of electrolytic process and analytical chemistry</td> </tr> <tr> <td>CO2</td> <td>Analyze of concept and calculation on electrochemical system and in experimental methods in electrochemical analysis</td> </tr> <tr> <td>CO3</td> <td>Formulate models for application of electrochemical analysis in the real samples</td> </tr> </table>	CO1	Committed to understanding of electrochemistry concepts in the fields of electrolytic process and analytical chemistry	CO2	Analyze of concept and calculation on electrochemical system and in experimental methods in electrochemical analysis	CO3	Formulate models for application of electrochemical analysis in the real samples
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CO2	Analyze of concept and calculation on electrochemical system and in experimental methods in electrochemical analysis						
CO3	Formulate models for application of electrochemical analysis in the real samples						
Content:	<p>This course will also include the study about electrochemistry concepts and their applications in analytical chemistry. The concept includes: Chemical change and electric energy electrolysis (redox reactive that require energy to occure), galvanic or voltaic cells (reaction that provide energy when the occure)</p> <p>Coverage of the materials:</p> <ol style="list-style-type: none"> 1. Electrolysis cells and galvanic cells 						

