



UNIVERSITAS NEGERI JAKARTA
FACULTY OF MATHEMATICS AND NATURAL SCIENCES
CHEMISTRY STUDY PROGRAM

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Bachelor in Chemistry

MODULE HANDBOOK

Module name:	Capita Selecta Chemistry	
Module level, if applicable:	Undergraduate	
Code:	33250102	
Sub-heading, if applicable:		
Classes, if applicable:		
Semester:	Ganjil	
Module coordinator:	Dr. Ferakurniadewi, M.Si	
Lecturer(s):	Yussi Pratiwi, M.Sc	
Language:	Bahasa Indonesia	
Classification within the curriculum:	Compulsory course	
Type of Teaching	Contact hours per week during the semester	Class Size
Lecture (Expository, discussion, exercise)	100 minutes	40
Workload:	Total workload is 340 minutes (3 ECTS) per semester which consists of 100 minutes (0.8 ECTS) learning activity, 120 minutes (1.1 ECTS) structured task and 120 minutes (1.1 ECTS) individual learning per week for 16 weeks.	
Credit points:	3 ECTS	
Prerequisite course(s):	-	
Course Outcomes :	General Competence (knowledge): Student can conclude recent development in analytical chemistry, physical chemistry, organic chemistry, inorganic chemistry, and bochemistry	

	<p>Specific Competence : At the end of the lecture, students can conclude recent development in analytical chemistry, physical chemistry, organic chemistry, inorganic chemistry, and bochemistry</p>															
Content:	Course materials discuss the understanding of recent development in analytical chemistry, physical chemistry, organic chemistry, inorganic chemistry, and bochemistry.															
Study/exam achievements:	<p>Examinations are conducted as Unit Tests. There are two-unit tests, each covers 4-5 chapters. The final marks are derived from unit tests (70%) and structured tasks (30%).</p> <table border="1"> <thead> <tr> <th>No</th> <th>CO</th> <th>Assesment Object</th> <th>Assessment Techniques</th> <th>Weight</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>CO 1-9</td> <td>a. Participation b. Assignment c. UTS d. UAS</td> <td>Written test</td> <td>20% 30% 20% 30%</td> </tr> <tr> <td colspan="4">Total</td> <td>100%</td> </tr> </tbody> </table>	No	CO	Assesment Object	Assessment Techniques	Weight	1	CO 1-9	a. Participation b. Assignment c. UTS d. UAS	Written test	20% 30% 20% 30%	Total				100%
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1	CO 1-9	a. Participation b. Assignment c. UTS d. UAS	Written test	20% 30% 20% 30%												
Total				100%												
Media	Computer, LCD, White board															
Literatures	<ol style="list-style-type: none"> 1. Abdullah, M. (2009). <i>Pengantar Nanosains</i>. Bandung: ITB 2. Abdullah, M. (2010). <i>Karakterisasi Nanomaterial</i>. Bandung: ITB 3. Dewick, P. M. (2009). <i>Medicinal Natural Products</i>. 3rd Edition. New York: John Wiley and Sons, Inc. 4. Glik, B.R. and Pasternak, J.J. (1994). <i>Molecular Biotechnology: Principles and Application of Recombinant DNA</i>. Washington, D.C.: ASM Press. 5. Hofmann, A. (2018). <i>Physical Chemistry Essentials</i>. Australia: Springer. 6. Karlin, K.D. (2003). <i>Progress in Inorganic Chemistry</i>. Vol 51. New Jersey: John Wiley and Sons, Inc. 7. Nelson, D.L. and Cox, M.M. (2003). <i>Lehninger: Principles of Biochemistry</i>. 4nd Edition. University of Winconsin Madison 8. Pearce, E.M., et al. (2015). <i>Physical Chemistry Research for Engineering and Applied Sciences</i>. Vol 3. Canada: Apple Academic Press, Inc. 9. Wang, J. (1994). <i>Analytical Electrochemistry</i>. New York: VCH Publisher. 															

PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12
CO1			v				v					
CO2			v				v					
CO3			v				v					
CO4			v				v					