

MODULE HANDBOOK

Modul Name	Capita Selecta										
Module Level	Bachelor of Chemistry										
Abbreviation, if applicable	3074112068										
Sub-heading, if applicable	-										
Course included in the module, if applicable	-										
Semester/term	7 th / Fourth Year										
Modul coordinator(s)	Prof. Dr. Suyatno, M.Si. (C1), Prof. Dr. Sari Edi Cahyaningrum, M,Si. (C2), Dr. Pirim Setiarso, M.S. (C3), Dr. I Gusti Made Sanjaya, M.Si. (C4), Dr. Nuniek Herdyastuti, M.Si. (C4)										
Lecturer(s)	Prof. Dr. Suyatno, M.Si. (C1), Prof. Dr. Sari Edi Cahyaningrum, M,Si. (C2), Dr. Pirim Setiarso, M.S. (C3), Dr. I Gusti Made Sanjaya, M.Si. (C4), Dr. Nuniek Herdyastuti, M.Si. (C4)										
Language	Indonesian Language										
Classification within the curriculum	Elective Course										
Teaching format/class hours per week during the semester	2 hours lectures (50 min / hour)										
Workload	2 x 50 minutes lectures, 2 x 60 minutes structured activity, 2 x 60 minutes individual activity, 14 weeks per semester, 79,33 total hours per semester ~ 3.18 ECTS**										
Credit point	2 CU x 1.59 = 3.18 ECTS										
Requirement	-										
Learning Outcomes	<p>General Competence (knowledge): Student can conclude recent development in analytical chemistry, physical chemistry, organic chemistry, inorganic chemistry, and bochemistry</p> <p>Spesific 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>Students are considered to complete the course and pass if they obtain at least 40% of maximum final grade. The final grade (NA) is calculated based on the following ratio:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Assessment Components</th> <th style="text-align: center;">Percentage of contribution</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Participation</td> <td style="text-align: center;">20%</td> </tr> <tr> <td style="text-align: center;">Assignment</td> <td style="text-align: center;">30%</td> </tr> <tr> <td style="text-align: center;">Mid-semester test</td> <td style="text-align: center;">20%</td> </tr> <tr> <td style="text-align: center;">Final semester test</td> <td style="text-align: center;">30%</td> </tr> </tbody> </table>	Assessment Components	Percentage of contribution	Participation	20%	Assignment	30%	Mid-semester test	20%	Final semester test	30%
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Final semester test	30%										

Forms of media	Computer, LCD, White board
Learning Methods	Lectures, discussion, problem solving, assignment
Literatur	<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 Wisconsin Madison 8. Pearce, E.M., <i>et al.</i> (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. 10. Jurnal terkini bidang Kimia Analitik, Kimia Organik, Kimia Anorganik, Kimia Fisika, dan Biokimia
Notes:	<p>*1 CU in learning process = three periods consist of: (a) scheduled instruction in a classroom or laboratory (50 minutes); (b) structured activity (60 minutes); and (c) individual activity (60 minutes) according to the Regulation of Indonesia Ministry of Research, Technology, and Higher Education No. 44 Year 2015 jo. The Regulation of Indonesia Ministry of Research, Technology, and Higher Education No. 50 Year 2018.</p> <p>**1 CU = 1,59 ECTS according to Rector Decree Of Universitas Negeri Surabaya No. 598/Un38/Hk/Ak/2019</p>