

MODULE HANDBOOK

Module Name	Practicum of Biochemistry
Module level	Bachelor
Abbreviation, if applicable	3074211053
Sub-heading, if applicable	-
Course included in the module, if applicable	-
Semester/term	5 th /Third Year
Module coordinator(s)	Prof. Dr. Leny Yuanita, M..Kes
Lecturer(s)	Prof. Dr. Rudiana Agustini, M.Pd; Dr. Prima Retno Wikandari, M.Si; Dr. Nuniek Herdyastuti, M.Si; Mirwa A. Anggarani, M.Si
Language	Indonesian
Classification within the curriculum	Compulsory Course
Teaching format/class hours per week during the semester:	2 hours lecturers
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 points:	2 CU x 1.59 = 3.18 ECTS
Prerequisites course(s):	-
Targeted learning outcomes:	<p>CLO 2 Students can apply chemical pedagogical knowledge in designing, implementing, and evaluating learning</p> <p>CLO 3 Students mastering the principles of K3 (Occupational Safety and Security), managing laboratories and using their equipment and how to operate chemical instruments</p> <p>CLO 4 Students able to design, implement, evaluate, learn and develop chemistry learning media by utilizing Information and Communication Technology (ICT)</p> <p>CLO 5 Student can aplying logical, critical, systematic and innovative thinking in the context of developing or implementing science, technology, and arts that pays attention to and applies humanities values that are in accordance with the field of chemistry education in solving problems</p> <p>CLO 6 Students mastering the basics of the scientific method, designing and carrying out research, compiling scientific reports and communicating them both orally and in writing by utilizing information and communication technology</p> <p>CLO 7 Students able to make decisions based on data / information in order to complete the tasks that are their responsibility and evaluate the performance that has been done both individually and in groups, has an entrepreneurial spirit that is environmentally sound</p>

	CLO 8 Students able to adapt to various developments in chemistry, continue to develop and learn throughout life to continue education, both formal and informal.										
Content:	Providing skills on qualitative and quantitative analysis methods of glucose, amino acids, fats, vitamins, in a sample and testing factors that affect enzymes in their role in metabolic processes. This study is carried out through discussion, question and answer and practicum										
Study / exam achievements:	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: <table border="1" data-bbox="624 600 1433 837"> <thead> <tr> <th>Assessment Components</th> <th>Percentage of contribution</th> </tr> </thead> <tbody> <tr> <td>Participation</td> <td>20%</td> </tr> <tr> <td>Assignment</td> <td>30%</td> </tr> <tr> <td>Mid-semester test</td> <td>20%</td> </tr> <tr> <td>Final semester test</td> <td>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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Media:	Computer, LCD, White board										
Learning Methods	Individuals assignment, group assignment, discussion, presentation, and practicum										
Literature:	<ol style="list-style-type: none"> 1. Lehninger, 1988, <i>Dasar-dasar Biokimia</i>, jilid 1, Jakarta, Erlangga 2. Nelson D.L., and Cox M.M., 2003, <i>Lehninger Principle of Biochemistry</i>, 4th edition, University of Winconsin-Madison 3. Boyer R, 2000. <i>Modern Experimental Biochemistry</i>. San Francisco: Addison Wesley Longman 4. Penuntun Praktikum Biokimia, 2010, Tim Pengajar Biokimia, Penerbit Unipress Unesa 										
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>										