

MODULE HANDBOOK

Module Name :	Practicum of Biochemistry
Module level :	Bachelor
Course Code :	8420401246
Abbreviation, if applicable:	-
Courses included in the module, if applicable:	-
Semester/Term	6 th / third year
Module coordinator(s)	Prof. Dr. Rudiana Agustini, M.Pd.
Lecturer(s):	Dr. Prima Retno Wikandari, M.Si. Prof. Dr. Nuniek Herdyastuti, M.Si. Mirwa A. Anggarani, M.Si.
Language:	Indonesian
Classification within the curriculum:	Compulsory/ Elective
Teaching format/class hours per week during the semester:	2 contact hours lab activity (Indonesia credit semester or sks*)
Workload :	2 x 170 minutes lab activity, 14 weeks per semester Total of lab activity= 79.33 total hours per semester ~ 3.18 ECTS**
Credit Point:	2 CU x 1.59 = 3.18 ECTS
Requirements:	-
Learning goals/competencies:	CLO 2 Students can apply chemical pedagogical knowledge in designing, implementing, and evaluating learning CLO 3 Students mastering the principles of K3 (Occupational Safety and Security), managing laboratories and using their equipment and how to operate chemical instruments CLO 4 Students able to design, implement, evaluate, learn and develop chemistry learning media by utilizing Information and Communication Technology (ICT) CLO 5 Student can applying 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 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 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

	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																														
Attribute Soft skill:	Active communication; Discipline; Collaboration; Responsibility; and Argumentation in class and outdoor setting.																														
Study/exam achievements:	The final grade (NA) is calculated based on the following ratio: <table><tr><td>Assessment Components</td><td>Percentage of contribution</td></tr><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></table>	Assessment Components	Percentage of contribution	Participation	20%	Assignment	30%	Mid-semester test	20%	Final semester test	30%																				
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	Grade Conversion of 0-100 scale into 0-4 scale is set as below: <table><tr><td>Letter</td><td>Number</td><td>Grade interval</td></tr><tr><td>A</td><td>4.00</td><td>$85 \leq A \leq 100$</td></tr><tr><td>A-</td><td>3.75</td><td>$80 \leq A- < 85$</td></tr><tr><td>B+</td><td>3.50</td><td>$75 \leq B+ < 80$</td></tr><tr><td>B</td><td>3.00</td><td>$70 \leq B < 75$</td></tr><tr><td>B-</td><td>2.75</td><td>$65 \leq B- < 70$</td></tr><tr><td>C+</td><td>2.50</td><td>$60 \leq C+ < 65$</td></tr><tr><td>C</td><td>2.00</td><td>$55 \leq C < 60$</td></tr><tr><td>D</td><td>1.00</td><td>$40 \leq D < 55$</td></tr><tr><td>E</td><td>0.00</td><td>$0 \leq E < 40$</td></tr></table>	Letter	Number	Grade interval	A	4.00	$85 \leq A \leq 100$	A-	3.75	$80 \leq A- < 85$	B+	3.50	$75 \leq B+ < 80$	B	3.00	$70 \leq B < 75$	B-	2.75	$65 \leq B- < 70$	C+	2.50	$60 \leq C+ < 65$	C	2.00	$55 \leq C < 60$	D	1.00	$40 \leq D < 55$	E	0.00	$0 \leq E < 40$
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Learning Methods :	Lecture, Individuals assignment, group assignment, discussion, presentation, and practicum																														
Form of Media:	Computer, LCD, White board																														
Literature (primary references):	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 Wisconsin-Madison 3. Boyer R, 2000. <i>Modern Experimental Biochemistry</i>. San Francisco: Addison Wesley Longman																														

Notes:	*1 sks in learning process = three periods consist of: (a) scheduled instruction in a classroom (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. For lab activity: 1 sks in learning process = two periods consist of: (a) scheduled lab activity (100 minutes); (b) structured lab activity (70 minutes); **1 sks = 1.59 ECTS according to Rector Decree Of Universitas Negeri Surabaya No. 598/Un38/Hk/Ak/2019
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