



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

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Bachelor in Chemistry

MODULE HANDBOOK

Module name:	Practicum of Biochemistry	
Module level, if applicable:	Undergraduate	
Code:		
Sub-heading, if applicable:	-	
Classes, if applicable:	-	
Semester:	4 th (Genap)	
Module coordinator:	Dr. Fera Kurniadewi, M.Si.	
Lecturer(s):	1. Prof. Dr. Muktiningsih Nurjayadi, M.Si. 2. Irma Ratna Kartika, M.Sc. Tech. 3. Dr. Irwan Saputra, M.Si.	
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 340 minutes (3 ECTS) laboratory practices per week for 16 weeks.	
Credit points:	3 ECTS	
Prerequisite course(s):	Organic Chemistry Practice	
Course Outcomes :	After taking this course the students have ability to: 1. CLO-1 Assistance 2. CLO-2 Carbohydrate practice 3. CLO-3 Lipid practice	

	<ol style="list-style-type: none"> 4. CLO-4 Protein and DNA practice 5. CLO-5 Enzyme practice 6. CLO-6 Urine practice 7. CLO-7 Final report 																				
Content:	<ol style="list-style-type: none"> 1. Assistance 2. Carbohydrate practice 3. Lipid practice 4. Protein and DNA practice 5. Enzyme practice 6. Urine practice 7. Final report 																				
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 rowspan="4">1</td> <td rowspan="4">CO 1-9</td> <td>a. Pre-test</td> <td rowspan="4">Written test</td> <td>10%</td> </tr> <tr> <td>b. Practice skills</td> <td>30%</td> </tr> <tr> <td>c. Report practice</td> <td>30%</td> </tr> <tr> <td>d. Response</td> <td>30%</td> </tr> <tr> <td colspan="3">Total</td> <td>100%</td> </tr> </tbody> </table>	No	CO	Assesment Object	Assessment Techniques	Weight	1	CO 1-9	a. Pre-test	Written test	10%	b. Practice skills	30%	c. Report practice	30%	d. Response	30%	Total			100%
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		c. Report practice		30%																	
		d. Response		30%																	
Total			100%																		
Media	Power point presentation, LMS, Zoom/Google Meet/Microsoft Teams, Google Classroom, Kahoot, Moodle, laptop, proyektor.																				

Literatures	<ol style="list-style-type: none">1. Tim Biokimia. <i>Petunjuk Praktikum Biokimia</i>. Jakarta: FMIPA - UNJ2. Colowick, S.P., and Kaplan, N.O. (1957). <i>Methods in Enzymology</i>. Vol III., New York: Academic Press Inc.3. Harrow, B., et. al. (1960). <i>Lab. Manual of Biochemistry</i>. 5 th edition. Philadelphia: Saunders Company.4. Holme, David J., & Peck, Hazel. (1993). <i>Analytical Biochemistry</i>. Second Edition. New York: John Willey & Sons. Inc.5. Slamet Sudarmadji, Bambang Haryono, & Suhardi. (1996). <i>Analisa Bahan Makanan dan Pertanian</i>, Yogyakarta: Liberty.6. Soedigdo, P., dll. (1980). <i>Penuntun Praktikum Biokimia Dasar</i>. Bandung: FMIPA-ITB.
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PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12
CO1	A		v			v						
CO2	A		v			v						
CO3	A		v			v						
CO4	A		v			v						
CO5	A		v			v						
CO6	A		v			v						
CO7	A		v			v						