Module Handbook

Module Name	Biochemist	·rv					
Module Level		Biochemistry					
	Higher Diploma						
Code, if applicable	VKD322	VKD322					
Subtitle, if applicable	-						
Courses, if applicable	-						
Semester(s) in which	3 <sup>rd</sup> semester						
the module is taught							
Person responsible for	Puji Kurniawati, S.Si., M.Sc.						
the module	Dr. Tatang Shabur Julianto, S.Si., M.Si.						
Lecturer	Puji Kurniawati, S.Si., M.Sc.						
	Dr. Tatang Shabur Julianto, S.Si., M.Si.						
Language	Bahasa Indonesia						
Relation to curriculum	Compulsory						
Type of teaching,	Lectures: 100 min/week						
contact hours	Structured Assignments/structured activities: 120 min/week						
	Online Activity/individual study: 120 min/week						
	Laboratory work: 340 min/week						
Workload	Total 91 hours; 2 CU						
WUINIDAU	Workload						
	VUINIDAU	Face to	Structure	Indonond	Data	Exam	
			d	Independ		EXam	
		face	<b>.</b>	ent study	Analysis		
		teaching	activities				
	Hours	12	14	14	40	11	
Credit Points	2 SCU/3,4 I						
Requirements	75% minimum requirements of attendance in theory						
according to the	100% requirements of attendance in lab activities						
examination							
regulations							
Recommended	Organic Chemistry						
prerequisites							
Module	PLO 3: Able to express basic concepts of chemistry, chemical analysis,						
objectives/intended	operation and maintenance of chemical instruments that can be applied						
learning outcomes	in their work						
	Subject LO:						
	Student are able to describe the structure and function of biomolecules						
	Student are able to describe reactions that occur in organisms						
	PLO 7: Students can select and carry out chemical analysis methods and operate instruments by applying the principles of chemical occupational						
	health and safety						
	Subject LO:						
	-	Student able to apply laboratory procedure and perform qualitative and					
		quantitative analysis technique of biochemical specimens					
	Student able to apply laboratory procedure and perform determination						
	of enzymatic reactions						
	Students are able to apply principles and build a culture of chemical safety and health Students are able to analyze data and report test results in writing and						
	orally		aryze udia a				
	orany						

Students are able to build team work in carrying out laboratory					
procedures					
1. Biomolecules: carbohydrates, proteins, fats, and nucleic acid					
<ol> <li>Biomolecules, carbonydrates, proteins, rats, and nucleic acid</li> <li>Metabolism: catabolism and anabolism</li> </ol>					
<ol> <li>Metabolism: catabolism and anabolism</li> <li>Qualitative and quantitative analysis of biochemical specimens</li> </ol>					
. ,					
4. Enzymatic reactions Table Value Graduation					
A 80					
A- 77.5					
A/B 75					
B+ 72.5					
B 70					
B- 67.5					
B/C 65					
C+ 62.5					
C 60					
C- 55					
C/D 50					
D+ 45					
D 40					
E O					
Google classroom, zoom meeting, google form, google doc					
1. Boyer, R., 1999, Concept in Biochemistry, Pacific Grove : Ann					
International Thompson Publishing Company, Inc.					
2. Lehninger, A.L., Nelson, c D., Michael M. Cox, M.M., 1993, Principles					
of Biochemistry 2 <sup>nd</sup> Ed. Worth Publisher, New York					
3. Poedjiadi, A., Supriyanti, T. F. M., 2005, Basics of Biochemistry, UI-					
Press, Jakarta					
4. Martin, D.W Jr., Peter A. Meyes, P.A., Rodwel, V.W., Daryl K.					
Granner, D.K., 1985 Harper's Review of Biochemistry,12 <sup>th</sup> Ed. Lange					
Medical Publisher, California					
5. Mathew, K.C., Van Holde, K. E., 1996, Biochemistry, The					
Benyamin/Cummings Publishing Company, Inc., Menlo Park					
6. Plummer, T. D., 1974, An Introduction to Practical Biochemistry, 2 <sup>nd</sup>					
Edition, Tata McGraw-Hill Publ. Comp. Ltd., New Delhi					
7. Stryer, L., 1988, <i>Biochemistry</i> , W. H. Freeman and Company, New York					
8. Voet, D and Voet, J.G., 1990, Biochemistry, John Wiley and Sons,					
New York					