Module Handbook

Viodule Hallubook	
Module Name:	Biochemistry (Practical Work)
Module Level:	Bachelor
Abbreviation, if applicable:	BIK203
Sub-heading, if applicable:	-
Courses included in the	-
module, if applicable:	
Semester/term:	Even (4 th semester)
Module coordinator(s):	MKWU Teaching Staff
Lecturer(s):	MKWU Teaching Staff
Language:	Bahasa Indonesia
Classification within the	Compulsory Course / Elective Studies
curriculum	
Teaching format / class	300 minutes/ week
hours per week	
during semester:	
Workload:	100 min lecture + 100 min structural assignment + 100 min self-
	assignment x 13 weeks; total 3900 min = 65 hours
	65/25 = 2.6 ECTS
Credit Points:	1
Requirements:	-
Learning	General Competence (Knowledge)
goals/competenc:	Students are able to practice the way of production, isolation, and
	analysis of biomolecules (proteins / enzymes, carbohydrates and
	fats), and analyzing reactions in the metabolic processes properly
	Specific Competence:
	Able to practice the isolation of casein from milk
	2. Able to determine the protein that content casein
	3. Able to invertase activity of yeast extract
	4. Able to test the activity of urea
	5. Able to isolate the glycogen from bovine liver
	6. Able to practice hydrolysis with acid and enzyme glycogen7. Able to practice the electron transport inhibitors and
	activators
Content:	Isolation of casein from milk; Determination of protein content
Content	of casein rough; Testing invertase activity of yeast extract /
	salivary amylase activity test / test protease activity of papaya
	latex; urease activity test; dextranase activity test; Isolation of
	glycogen from bovine liver; Hydrolysis with acid and enzyme
	glycogen; Inhibition of the enzyme succinate dehydrogenase;
	electron transport inhibitors and activators; Effect of monolayer
	membrane lipids constituent of the transport of methyl blue dye.
Attribute soft skill	Discipline and cooperation
Study/exam achievements:	Students are considered to be competent and pass if at least get 40
	of maximum mark of the exams (UTS and UAS), structured activity
	(group discussion).
	Final score (NA) is calculated as follow: 30% Paper project + 30%
	mid exam + 40% final exam.

	Final index is defined as follow:
	A : 75 – 100
	AB : 70 - 74.99
	B : 65 - 69.99
	BC : 60 - 64.99
	C : 55 - 59.99
	D : 40 - 54.99
	E : 0-39.99
Forms of Media:	Laboratory equipment
Learning Methods	Practical work
Literature	a. Brady, J.E., 1992, <i>General Chemistry</i> , 5 th ed., John Wiley and Sons, New York
	b. Brown, W.H., 1982, <i>Introduction to Organic Chemistry</i> , 3 rd ed., Williard Grant Press, Boston.
	c. Wilbraham, A.C., Matta M.S., 1992, Pengantar Kimia Organik dan Hayati (terjemahan Suminar Achmad), Penerbit ITB.
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