Module Handbook

Module Name:	Biochemistry
Module Level:	Bachelor
Abbreviation, if applicable:	Lecture BIK201
7 toole viation, it applicable.	Practical Laboratory BIK201
Sub-heading, if applicable:	Tractical Eaboratory BIN201
Courses included in the	
module, if applicable:	
Semester/term:	1 / Second year
Module coordinator(s):	dr. Edhi Rianto, MS
Lecturer(s):	dr. Edhi Rianto, MS
Lecturer (5).	Prof. Dr. Retno H, MS, Ph.D
	Prof.Dr.Suhartati, dr., MS
	Sudarno, dr., ,M.Kes
Language:	Bahasa Indonesia
Classification within the	Compulsory Course/Elective Studies
curriculum:	Table 1 and
Teaching format/class hours	Lecture
per week during the semester:	100 minutes lectures, 13 lecture classes/semester
	Practical Work
	100 minutes practical work classes, 13 practical work classes
	/semester
Workload:	Lecture
	Total 22 hours a semester
	Practical Work
	Total 22 hours a semester
Credit Points:	Lecture
	2
	Practical Work
D. min was a tar	1
Requirements:	V 1. 1
Learning goal/competencies:	Knowledge
	To understand the concept of basic biochemical
	concepts and principles in biomolecules and metabolism
	 To understand the concept of biochemical reaction and basic concepts and principles in assay of
	biomolecules
	Skills
	To demonstrate an ability to discipline, honesty, and
	teamwork
	 To demonstrate an ability to plan and prepare
	practical laboratory practice investigation on
	biochemical reaction
	Competence
	To understand and able to apply the concept of
	physiology linking to basic biomolecules (proteins,
	enzymes, carbohydrates and fats),
	 To understand and able to apply the concept of
	metabolism processes linking (carbohydrate, fat,

	mustain and suris asid)
	protein and uric acid)
	To understand and able to apply the concept of antrol of call functions.
	control of cell functions
	To understand and able to apply the concept of high principles and able to apply the concept of
	biochemical reaction
	To understand and able to apply the concept of
	biomolecules assay
Content:	Lecture
	Biomolecules (proteins, enzymes, carbohydrates and fats),
	metabolism (carbohydrate, fat, protein and uric acid) and
	energy metabolism
	Practical Work
	The students learn to perform biochemical reactions and
G. 1 / 1:	assay of biomolecules
Study/exam achievements:	Lecture
	Student are considered to be competent and pass if at least
	get 50% of maximum mark of the exams based learning.
	Final score (NA) is calculated as follow:
	50% Exam I + 50% Exam II
	Final index is defined as follows.
	Final index is defined as follow: A: 100 > NA > 75
	A: 100 > NA > 73 AB: 75 > NA > 70
	B: 70 > NA > 65
	BC: 65 > NA > 60
	C: 60 > NA > 55
	D: 55 > NA > 50
	E: 50 < NA
	Practical Work
	Student are considered to be competent and pass if at least
	get 50% of maximum mark of the exams based learning.
	get 50% of maximum mark of the exams based learning.
	Final score (NA) is calculated as follow:
	50% Exam I + 50% Exam II
	30/0 DAMII I 30/0 DAMII II
	Final index is defined as follow:
	A: 100 > NA > 75
	AB: 75 > NA > 70
	B: 70 > NA > 65
	BC: 65 > NA > 60
	C: 60 > NA > 55
	D: 55 > NA > 50
	E: 50 < NA
Forms of Media:	OHP, LCD projector, tools and materials laboratory at
	Airlangga University Faculty of Medicine Department of
	Biochemistry
Literature:	1. Albert B., 1994, <i>Molecular Biology of the cell</i> , edisi ke
	3, garland.
	2. Lehninger, A.L.,1993., <i>Principles of Biochemistry</i> , edisi
	2, Worth.
	3. Murray RK, <i>harper's Biochemistry</i> , 1996, edisi ke 24,
	5. Marray Kix, numper a Diochemian y, 1990, cuisi Ke 24,

	Appleton and lange.
	4. Stryer L.,1995, <i>Biochemistry</i> , edisi ke 4, Freeman.
Notes:	The course is more concept of biochemical based as
	compared to basic biology