MODULE HANDBOOK

Module Name	Metabolism and Pathways of Genetics Information
Module level	Bachelor
Abbreviation, if applicable	8420403034
Sub-heading, if applicable	8420403034
Course included in the	-
module, if applicable	-
Semester/term	th
	6 th /Third Year
Module coordinator(s)	Prof. Dr. Lenny Yuanita, M.Kes
Lecturer(s)	Prof. Dr. Rudiana Agustini, M.Pd;
	Dr. Prima Retno Wikandari, M.Si;
	Dr. Nuniek Herdyastuti, M.Si,;
T	Mirwa Adiprahara Anggarani, S.Si., M.Si
Language	Indonesian
Classification within the curriculum	Compulsory Course
Teaching format/class	3 hours lecturers (50 min per hours)
hours per week during the	
semester:	
Workload:	1 CU for bachelor degree equals to 3 workhours per week or
	170 minutes (50' face to face learning, 60' structured
	learning, and 60' independent learning). In one semester,
	courses are conducted in 14 weeks (excluding mid and end-
	term exam). Thus, 1 CU equals to 39.67 workhours per
	semester. One CU equals to 1.59 ECTS.
Credit points:	3 CU = 3 x 1.59 = 4.77 ECTS
Prerequisites course(s):	-
Targeted learning outcomes:	CLO 1 Able to solve science and technology problems in the field general chemistry and in simple environments
	such as reporting, analysis, isolation, transformation, and
	synthesis of micromolecules, through the application of
	their structure, properties, molecular changes, energy and
	kinetics.
	CLO 2 Able to solve science and technology problems in
	the field of biochemistry, especially those related to
	metabolism and genetic information processing, based on
	scientific studies and analysis and synthesis methods, as
	well as the application of relevant technology.
	CLO 3 Have knowledge of: a) metabolism and regulation
	of carbohydrate, lipid and protein biomolecules, b) electron
	transfer processes in photosynthesis and c) genetic
	information processing.
	CLO 4 Demonstrate a responsible attitude in his work in
	learning Metabolism and Pathways of Genetics Information
	independently.
Content:	Metabolic aspects and their role in living cells:
	Macro and micro aspects of metabolism, energy cycles.
	Carbohydrate Catabolism:

McGraw-Hill Companies
6. Nelson, D.L. and Cox, M.M. 2003. Lehninger
Principle of Biochemistry. 4th edition. Madison:
University of Winconsin.
7. Styer, L., 1988. Biochemistry. New York: W.H.
Freeman and Company