

MODULE HANDBOOK
 Course :Veterinary Biochemistry II
 Academic Year : 2017/2018

A. Course Identity

Module name	Veterinary Biochemistry II
Module level	Bachelor
Abbreviation, if applicable	KHU-1022
Sub-Heading, if applicable	-
Courses included in the module, if applicable	-
Semester/ Term	2 / First year
Coordinator	Dr. drh. ArisHaryanto, M.Si.
Lecturer(s)	Prof. Dr. drh. Wayan Tunas Artama, Dr. drh. RiniWidayanti, M.P., Dr. drh. TriniSusmiati, M.P., drh. ArisPurwantoro, M.Si., drh. MedaniaPurwaningrum, M.Sc.
Language	Bahasa Indonesia
Classifications within the curriculum	Compulsory course
Teaching Format/ class hours per weeks during the semester	2 hours lecturers/week/semester during 14 weeks and 16 hours of focus group discussion (FGD) during 4 weeks/semester
Workload	2 hours lecturer 1 hour independent work and 1 hour structural activities/week during 14 weeks, 1 credit /week of practicum: 2 hours work in laboratory, 1 hours individual assignment at home, 1 hours discussion and 16 hours of FGD total 104 hours/ semester. (104/25 = 4,16 ECTS)
Credit points	2/1
Requirements	Veterinary Biochemistry I
Learning goals/ competencies	CO1: able to understand the carbohydrate metabolism, lipid metabolism, nucleic acid metabolism, Amino acid and protein metabolism, enzyme and hormone metabolism, photosynthesis, bioenergetics, vitamin and mineral metabolism CO2: able to show and differences carbohydrate metabolism, lipid metabolism, nucleic acid metabolism, Amino acid and protein metabolism, enzyme and hormone metabolism, photosynthesis, bioenergetics, vitamin and mineral metabolism CO3: able to create collaboration on inter cultural basis, multi courses, and create participatory leadership among student (to improve student soft skills: active listening, and socio-cultural awareness).

Content	The course contents are: introduction and learning contract, carbohydrate metabolism, lipid metabolism, nucleic acid metabolism, Amino acid and protein metabolism, enzyme and hormone metabolism, photosynthesis, bioenergetics, vitamin and mineral metabolism.
Study/ exam achievement	Students are considered to be competent and pass if comply the 75% of lectures attendance and FGD requirements as stated in department and academic rules. Examination score : Mid Sem Exam (27,5%) + Final Sem Exam (27,5%) Total score : Exam score (55%) + Practi. (30%) + FGD (15%) Final score : 100% Final index : (absolute score) NB= if absolute score cannot be applied, the calculation with relative score will be conducted.
Forms of Media	Powerpoint presentation, LCD Projector, Whiteboard, Laboratory
Literature	<ol style="list-style-type: none"> 1. Lehninger Principles of Biochemistry, 7thed. . 2017. Albert L. Lehninger, Nelson, David L., Cox, Michael 2. Biochemistry, 2015. Springer Palgrave Macmillan. Berg Jeremy M., Stryer Lubert, Tymoczko, John L. 3. Stryer Biochemistry, 2017. Springer Berlin. Berg Jeremy M., Tymoczko, John L. , Gatto, Gregory J. 4. Harper's Illustrated Biochemistry. 2015. Rodwell, Victor W.; Bender, David; Botham, Kathleen M.; Kennelly, Peter J.; Weil, P. Anthony, 30th rev. ed. 5. Principles of Biochemistry. 4th, ed. 2013. Willey and sons. Donald Voet, Charlotte W. Pratt., Judith G Voet. 6. Color Atlas of Biochemistry. 3rd ed. 2012. Thieme Stuttgart. Jan Koolman, Roehm Klaus-Heinrich. 7. A Basic laboratory Manual for Biochemistry. 2017. Palanivel Rameshthangam, Dhanasekaran Solairaj, Jeyaraj Pandian Chitra.

B. PLO Mapping to CO

PLO	CO1	CO2	CO3
PLO 1 : Having insight of veterinary ethic and comprehension towards the essence of profession vow and ethic code also baseline of veterinary profession;	√	√	
PLO 2 : Having insight in the field of national animal health system and veterinary legislation;	√	√	
PLO3 : Having skills in practicing lege-artis medical treatment;	√	√	

PLO 11 : Able to do innovation in the field of medical veterinary aligned with improvement of biotechnology and genetic engineering;	√	√	
PLO 14 : Well-communicate, able to cooperate in team;			√