



THE MODULE HANDBOOK
FACULTY OF BIOLOGY
MASTER PROGRAMME

ENDOCRINOLOGY AND ANIMAL REPRODUCTION

Module code	BIO-60805
Module level	1 st year of Master Program in Biology
Abbreviation, if applicable	-
Courses related	-
Semester	Even
Course coordinator(s)	Dr. Slamet Widiyanto, M.Sc.
Lecture(s)	1. Dr. Slamet Widiyanto, M.Sc. 2. Dr. biol. hom. Nastiti Wijayanti, M.Si.
Language	Bahasa Indonesia and English
Classification within the Curriculum	Compulsory Course for Specific Field of Interest
Teaching format/class hours per week during the semester	This course is organized into one class and planned to have 14 teaching weeks and 2 weeks of examination. This course also has laboratory works credits.
Workload	Estimated working hour: 10,5 hours/week.
Credit	2-1 credits
Requirements	-
Course Learning Outcome	<ol style="list-style-type: none">1. Able to explain the molecular mechanism of hormones, its role in human health, and how the hormone controlled, produced, and its action to certain organs.2. Able to design experiments and utilize methods in animal endocrinology, especially using test animals3. Able to make reports on animal experiments related to endocrinology research
Syllabus	This course covers the study of the molecular mechanism of hormones along with its mechanism of action and influencing factors. Students will learn the basic knowledge in general endocrinology, studying the various mechanisms of action of steroid hormones and peptides, and cross talk between their pathways and their role in cellular signals. The course will review about the hormonal system's health and its involvement as a cause of diseases in humans such as diabetes, thyroid disorders and related endocrine cancers.
Study/exam achievements	<ol style="list-style-type: none">a. Midterm: 35%b. Final examination: 40%c. Projects: 15%d. Quiz: 10%
Forms of media	White board, notebook, LCD



THE MODULE HANDBOOK

FACULTY OF BIOLOGY

MASTER PROGRAMME

Reference

1. Shlomo Melmed MD, Kenneth S. Polonsky MD, 2011, Williams Textbook of Endocrinology, 12e, Elsevier Saunders.
 2. David Gardner, Dolores Shoback, 2007, Greenspan's Basic and Clinical Endocrinology, 9Ed. Mc.Grow.Hill.
 3. Stephen Nussey and Saffron Whitehead, 2001, Endocrinology An Integrated Approach, Oxford: BIOS Scientific Publishers; St. George's Hospital Medical School, London, UK
 4. Gard, P.R. 1998. Human Endocrinology. Taylor & Francis, Ltd. Gunpowder Square, London.
 5. Norris, D.O. 2006. Vertebrate Endocrinology. Fourth Edition. Academic Press. Waltham, Massachusetts.5
 6. Sanders. 2004. Endocrine and Reproductive System. Second Edition. Mosby International Ltd./Elsevier Science Ltd. London.
-