

Module Descriptions

Module designation	Systematics of Invertebrates (course code MPB 2215)
Semester(s) in which the module is taught	3
Person responsible for the module	Dr. Kustiati, S.Si., M.Si. Dr. Junardi, S.Si., M.Si., Firman Saputra, S.Si., M.Sc., & Riyandi, S.Si., M.Si.
Language	Bahasa Indonesia
Relation to curriculum	Compulsory Course
Teaching methods	Lecture and lab work
Workload (incl. contact hours, self-study hours)	Total workload: 7.76 ECTS • Lecture: 26.6 hours (0.99 ECTS) • Assignment: 60.1 hours (2.23 ECTS) • Independent study: 56 hours (2.07 ECTS) • Practical sessions: ○ Labwork: 47.8 hours (1.77 ECTS) ○ Fieldwork: 18.99 hours (0.7 ECTS)
Credit points	3 unit
Required and recommended prerequisites for joining the module	Biology (course code MPB 1100)
Module objectives/intended learning outcomes	General skills: Able to integrate and apply biological science and other scientific fields that support the development of biological science First specific skill: Able to collaborate effectively within a team and communicate actively, both orally and in writing, in biology. Second specific skills: Able to apply biological methodology and use instruments by prioritising work safety and able to apply in the management of tropical wetland resource.
Content	The subject exposes students to the basic knowledge required to understand the concept of systematics, taxonomy, classification, the role of classification, the relationship of taxonomy with other sciences, the history of the development of animal taxonomy, the basics of classification, species categories, categories below and above species, types, principles of animal nomenclature, and the basics of animal grouping. Basics of invertebrate animal collection and specimen management. Classification characteristics (morphology, anatomy, physiology, habitat) and the role of the phyla Protozoa, Porifera, Coelenterata, Platyhelminthes, Nematelminthes, Annelida, Mollusca, Arthropoda, and Echinodermata.

Examination forms	1. Theory 70% • Midterm 25% • Final Exams 25% • Assignment 10% • Group/Individual Activity 10% 2. Practical sessions (labwork and fieldwork) 30%
Study and examination requirements	Re-registration and 75% attendance.
Reading list	1) Nurhadi & Yanti, F. (2016). Buku Ajar Taksonomi Invertebrata. Deepublish. 2) Brusca, R. C., & Valentine, J. W. (2009). The Diversity of Life (2nd ed.). Roberts and Company Publishers. 3) Mayr, E., Ashlock, P.D. (1991). Principles of Systematic Zoology. McGraw-Hill, H.V., Doyen, J.T. and P.R. Ehrlich. 1978. Introduction to Insect Biology and Diversity. Mac. Graw-Hill. Inc. New York. 4) Claridge, M.F., H.A. Dawah, and M.R. Wilson. (1997). Species: The Unit of Biodiversity. Chapman and Hall, London. and Plant Pathology. 2nd ed. The Avi Publishing Co.Inc. 5) Iksan, M. (2023). Buku Zoologi Invertebrata. Deepublish. 6) Zootaxa and related journals