Plant Systematics

Module code	BIO 41001
Module level	2nd year of Undergraduate Program in Biology
Abbreviation, if applicable	-
Sub-heading, if applicable	-
Courses included in the module, if applicable	-
Semester/term	Odd and Even
Module coordinator(s)	Dr. Ratna Susandarini, M.Sc.
Lecture(s)	1. Dr. Ratna Susandarini, M.Sc. 2. Rina Sri Kasiamdari, S.Si., Ph.D. 3. Dr. Purnomo, M.S.
Language	Indonesia
Classification within the Curriculum	Elective course
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.
Workload	Estimated working hour: 10,5 hours/week.
Credit points	2-1 credits
Requirements	Plant Systematics (BIO 31001)
Learning goals/ competencies	1. Students are able to comprehend concepts and theories on Plant Systematics. 2. Students have basic knowledge on Plant Systematics literature both of textbooks and scientific journals 3. Students are able to analyze the results of data. analysis and determine the validity and correctness, both individually and groups. 4. Students have the ability to use scientific literature and take notes effectively for literature review. 5. Students are able to communicate effectively and taking active role in discussions, group work and presentations. 6. Students have an attitude of great curiosity, able to appreciate ideas and opinions of others. 7. Students have a responsible attitude in developing the Plant Systematics, creative, innovative and Students have a responsible attitude in developing the Plant Systematics creative, innovative and appreciate scientific-ethical values.

Content	Students taking his course will learn about the scope of the taxonomy, plant systematics and biosystematics, plant diversity, classification and development of plant classification, nomenclature and identification of plants, non-molecular and molecular taxonomic evidences, the type of data for systematic study of plants, data analysis and taxonomic relationships. Learning methods for this course include, lectures, discussions, question and answer, and presentations.

Study/exam achievements	**1. Theory**
	  a. Midterm: 35%
	  b. Final examination: 35%
	  c. Assignments: 30%
	2. Laboratory work
	  a. Group activity: 20%
	  b. Herbarium specimen & species description: 40%
	  c. Laboratoryy activity report: 40%

Forms of media	White board, specimen, computer, LCD
Literature	1. Lawrence, G.H.M., 1968. *Taxonomy of Vascular Plants.* The McMillan Company: New York. 2. Davis P.H. & V.H. Heywood, 1973. *Principles of Angiosperm Taxonomy.* Robert & Krieger Publishing Company. Hutington, New York. 3. Jones S.B. & A.R. Luchsinger, 1986. *Plant Systematics.* Scond edition. McGraw-Hill Company: New York. 4. Stace C.A., 1989. *Plant Taxonomy and Biosystematics.* Second edition. Cambridge University Press. 5. Radford A.E., 1986. *Fundamentals of Plant Systematics.* Harper & Raw, Publisher Inc. 6. Singh G., 1999. *Plant Systematics.* Science Publisher Inc, USA. 7. Sokal R.R. & P.H.A. Sneath, 1979. *Principles of Numerical taxonomy.* W.H. Freeman and Company, San Francisco.