



THE MODULE HANDBOOK

Magister Biology Study Program

FACULTY OF BIOLOGY

DIVERSITY AND TAXONOMY OF VASCULAR PLANT

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| Course code | BIMB202236 |
| Course level | Magister |
| Semester/ term | Odd - Even |
| Course coordinator(s) | Abdul Razaq Chasani, S.Si., M.Si., Ph.D. |
| Lecture(s) | 1. Prof. Purnomo, M.S. 2. Rina Sri Kasiamdari, S.Si., Ph.D. 3. Dr. Ratna Susandarini, M.Sc. |
| Language | Bahasa Indonesia |
| Classification within the Curriculum | Elective |
| Teaching format/ class hours per week during the semester | This course is organised into 1 class and planned to have 14 teaching weeks and 2 weeks of examination. |
| Workload | Estimated working hour 2 credits of theory and 1 credit of laboratory work. |
| Credits | 2-1 credits |
| Requirements | - |
| Program Learning Outcome | K1. The graduates are demonstrating knowledge and comprehend biological theories, includes all aspects of biological studies at various levels in the organization of life (Knowledge) GS1. The graduates are able to develop logical, critical, systematic, and creative thinking through scientific concept and research (General Skills) SS1. The graduates are able to conduct research in the field of biology independently or in groups, and able to solve various biological-related problems (Specific Skills) |
| Course Learning Outcome | CLO1 Students are able to understand the plant diversity and its causes including characteristics of vascular plants as component of tropical biodiversity. CLO2 Students are able to recognize the characteristics of ferns and seed plants as members of tropical biodiversity. CLO3 Students are able to analyze important morphological characters in the identification of ferns and seed plants CLO4 Students are able to analyze the evolutionary relationship of ferns and seed plants (gymnosperm and angiosperm), including APG-based classification. CLO5 Students are able to analyze various types of characters for the development of research on ferns and seed plants (gymnosperm and angiosperm) |



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| Course Description | This course studies the diversity and taxonomy of vascular plants. Diversity is explained through definitions, traits and characteristics, especially the morphological characters of ferns/Pteridophyta and seed plants/Spermatophyta (Gymnosperms and Angiosperms) and their position in the plant classification system. Taxonomy is explained through the concept of identification and nomenclature of plants, classification and systematics of the main groups of ferns and seed plants as well as the development of a classification system, especially in the classification of modern Angiosperms based on the APG system (Angiosperms Phylogeny Group). | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|----------------------|------------|-------|-------|-------|-------|-------|---------------|--|--|--|--|--|--|---------|----|--|--|--|--|---|-------------|----|--|--|--|---|--|----------------------|----|---|---|--|--|--|-------------------|----|--|--|---|---|---|------------------|--|--|--|--|--|--|---------|----|--|---|--|--|--|------------------------|----|--|--|---|--|--|--------|----|--|--|--|--|---|--|--|--|--|--|--|
| Assessment | <table border="1"> <thead> <tr> <th>Assessment Component</th> <th>Percentage</th> <th>CLO 1</th> <th>CLO 2</th> <th>CLO 3</th> <th>CLO 4</th> <th>CLO 5</th> </tr> </thead> <tbody> <tr> <td>Theory</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Project</td> <td>10</td> <td></td> <td></td> <td></td> <td></td> <td>V</td> </tr> <tr> <td>Assignments</td> <td>20</td> <td></td> <td></td> <td></td> <td>V</td> <td></td> </tr> <tr> <td>Mid-term examination</td> <td>35</td> <td>V</td> <td>V</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Final examination</td> <td>35</td> <td></td> <td></td> <td>V</td> <td>V</td> <td>V</td> </tr> <tr> <td>Practical</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Pre-tes</td> <td>30</td> <td></td> <td>V</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Field & Lab activities</td> <td>30</td> <td></td> <td></td> <td>V</td> <td></td> <td></td> </tr> <tr> <td>Report</td> <td>40</td> <td></td> <td></td> <td></td> <td></td> <td>V</td> </tr> </tbody> </table> | Assessment Component | Percentage | CLO 1 | CLO 2 | CLO 3 | CLO 4 | CLO 5 | Theory | | | | | | | Project | 10 | | | | | V | Assignments | 20 | | | | V | | Mid-term examination | 35 | V | V | | | | Final examination | 35 | | | V | V | V | Practical | | | | | | | Pre-tes | 30 | | V | | | | Field & Lab activities | 30 | | | V | | | Report | 40 | | | | | V | | | | | | |
| Assessment Component | Percentage | CLO 1 | CLO 2 | CLO 3 | CLO 4 | CLO 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Theory | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project | 10 | | | | | V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Assignments | 20 | | | | V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mid-term examination | 35 | V | V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Final examination | 35 | | | V | V | V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Practical | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pre-tes | 30 | | V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Field & Lab activities | 30 | | | V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Report | 40 | | | | | V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Study Media | Blended Learning, synchronous and asynchronous e-learning | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Literature | Stace CA.2000. Plant Taxonomy and Biosystematics Singh. 2000. Plant Systematics. Radford, 2013. Plant Taxonomy. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |