

MODULE HANDBOOK

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|  | UNIVERSITAS PADJADJARAN FACULTY OF MATHEMATICS AND NATURAL SCIENCES BACHELOR OF BIOLOGY PROGRAMME | COURSE CODE: D10D-60107 |
| Module designation | Poisonous and Dangerous Plants | |
| Semester(s) in which the module is taught | 6 | |
| Person(s) responsible for the module | 1. Dr. Budi Irawan 2. Joko Kusmoro, Drs., MP | |
| Medium of instruction | Indonesian | |
| Relation to curriculum | Elective course | |
| Teaching methods | Lectures, discussions, cooperative learning, Project-based Learning and inquiry learning | |
| Workload | Total workload : 5440 minutes = 90.67 hours Lectures, discussions, cooperative learning, and inquiry learning : 2 x 50 minutes x 16 weeks = 1600 minutes = 26.67 hours Exercises : 2 x 60 minutes x 16 weeks = 1920 minutes = 32 hours Self-study : 2 x 60 minutes x 16 weeks = 1920 minutes = 32 hours | |
| Credit points | 2,00 (3,62 ECTS) | |
| Required and recommended prerequisites for joining the module | Higher Plant Biosystematics | |
| Module objectives/intended learning outcomes | 1. Able to analyze the use of biology across disciplines and the latest technology in identifying the management and wise use of poisonous and dangerous plants by promoting leadership and entrepreneurial spirit 2. Able to develop personal potential through strengthening character, mastery of competencies, and data literacy skills in technology and society in analyzing and managing information related to poisonous and dangerous plants, accompanied by strengthening soft skills and higher-order thinking skills (HOTS) 3. Able to formulate alternative solutions in dealing with issues related to the sustainable utilization and control of poisonous and dangerous plants through the application of biological knowledge, scientific methods, and appropriate technology as a basis for responsible decision-making regarding biological resources and the environment 4. Able to apply biological knowledge in daily life through education and proper management of poisonous and dangerous plants to improve community safety and welfare 5. Able to manage the potential and risks of poisonous and dangerous plants as part of biological resources and maintain environmental balance appropriately according to the ecological and social context | |
| Contents | 6. Biodiversity / Megabiodiversity in Indonesia. 7. Chemical content in poisonous plants. 8. Poisonous plants based on organs. 9. Poisonous plants based on family/tribe groups. 10. Poisonous ornamental plants. 11. Poisonous food plants. 12. Poisonous vegetable plants. 13. Poisonous fruit plants. 14. Plants used for traditional weapons of tribes/customs in Indonesia 15. Poisonous plants used for medicine 16. Poisonous bamboo plants 17. Introduction to Narcotic Plants 18. Introduction to Natural Pesticide Plants 19. Evaluation of Poisonous and Dangerous Plant Materials (FGD) | |
| Examination forms | Quiz, midterm exam, assignment, and final exam | |
| Study and examination requirements | The minimum attendance in lectures is 80%. Final grades are evaluated based on quiz (10%), midterm exam (15%), assignment (10%), final exam (15%), project and participation (50%) | |

Reading lists

1. Hallucinogens, Narcotics and Common Poisonous Plants Dr. Raman Dang Professor Al-Ameen College of Pharmacy Hosur Road, Opp. Lalbagh main Gate Bangalore – 560 027 (12-9-2007)
2. Psilocybin Magic Mushroom Grower's Guide A Handbook for Psilocybin Enthusiasts
3. Handbook of Poisonous and Injurious Plants Lewis S. Nelson, M.D. Richard D. Shih, M.D. Michael J. Balick, Ph.D.
4. Tanaman Beracun dalam Kehidupan Ternak DR., Ir. Wahyu Widodo
5. HALLUCINOGENIC PLANTS by RICHARD EVANS SHULTES Illustrated by ELMER W. SMITH
6. Handbook of Poisonous and Injurious Plants Lewis S. Nelson, M.D. Richard D. Shih, M.D. Michael J. Balick, Ph.D
7. Nelson, L. S., Goldfrank, L. R., Weil, A., Shih, R. D., & Balick, M. J. (2020). *Handbook of poisonous and injurious plants* (3rd ed.). Springer.
8. Gupta, R. C. (Ed.). (2018). *Veterinary toxicology: Basic and clinical principles* (3rd ed.). Academic Press.