

Module Handbook

Modul Name	Micro techniques (Practical Work)
Modul Level	Bachelor
Abbreviation, If applicable:	BIU 302
Sub---heading, if applicable:	-
Courses included in the module, if applicable:	-
Semester	Odd (5 th Semester)
Module Coordinator	Dr. Dwi Winarni, M.Si.
Lectures	Drs. Saikhu Akhmad Husen, M.Kes. Tri Nurhariyati, S.Si. M.Kes. Dr. Junairiah, M.Kes
Language	Bahasa Indonesia
Classification within the curriculum:	Compulsory Course / Elective Studies
Teaching format/ class hours per week during semester	600 minutes/ week
Workload per semester	200 min lecture + 200 min structural assignment + 200 min self-assignment x 13 weeks; total 7800 min = 130 hours 130/25 = 5.2 ECTS
Credit point	2
Requirements	Animal Histology and Plant Anatomy (Practical Work)
Learning goals/competencies	<p>General Competence (Skill)</p> <p>Students are able to interest in histological preparation for animal and plant tissue; working in groups; to make various kinds of histological preparations</p> <p>Specific Competence</p> <ol style="list-style-type: none"> 1. Explaining the definition of fixation formula and pigmentation 2. Explaining the method to make smear sample 3. Explaining the method to make squash sample 4. Explaining the method to make whole mount sample 5. Explaining the method to make wood maceration sample 6. Explaining the method to make plant sample using paraffin method 7. Explaining the method to make animal tissue sample using paraffin method
Content	Introduction to Laboratory work, Make histological preparations such as smear, whole-mount, paraffin method in animal and plant tissue.
Soft skill Attribute	Discipline and Team work
Study/ exam achievements	<p>Students are considered to be competent and pass if at least get 40% of maximum. Final score (NA) is calculated as follow: Practical project (50%), mid exam (20%), final exam (20%), and soft skill (10%)</p> <p>Final index is defined as follow:</p> <p>A : 75 - 100 AB : 70 - 74.99 B : 65 - 69.99 BC : 60 - 64.99 C : 55 - 59.99 D : 40 - 54.99 E : 0 - 39.99</p>

Form of media	Laboratory equipment
Learning Method	Practical work, presentation of practical results
Literature	<ul style="list-style-type: none"> a. Bancroft, John.D dan Cook, Harry C. 1984. <i>Manual of Histological Techniques</i>. New York: Churchill Livingstone. b. Sass, John. E. 1958. <i>Botanical Microtechnique</i>. 3rd. Iowa: the Iowa State College Press. c. Soetjipta. 1968. <i>Diktat Petunjuk Praktikum Mikroteknik Hewan</i>. Yogyakarta: Fakultas Biologi UGM. d. Suntoro, S. Handari. 1983. <i>Metode Pewarnaan</i>. Jakarta: Penerbit Bhratara Karya Aksara.
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