

Module designation	Microtechniques			
Semester(s) in which the module is taught	Odd/5th			
Person responsible for the module	drh. Tri Harjana, MP.			
Language	Bahasa Indonesia			
Relation to curriculum	Compulsory			
Teaching methods	Lecture, project, seminar, exam			
Workload (incl. contact hours, self-study hours)	Total workload is 46 hours per semester which consists of 50 minutes lectures, 60 minutes structured activities, and 60 minutes individual study per week for 16 weeks			
Credit points	1 SKS (1.6 ECTS)			
Required and recommended prerequisites for joining the module	General Biology			
Module objectives/intended	PLO-1			
learning outcomes	PLO-2			
	PLO-5			
	PLO-6			
	PLO-8			
	PLO-9			
	PLO-11			
Content	This course discuss about a variety of simple laboratory equipment both made of metal and glass and how to use them, the introduction and handling of chemicals, safety and security in the laboratory, how to work in the laboratory, the introduction of the microscope and its maintenance, the manufacture of wholemount preparations, squash, pollen, cuticles and diatoms, and how to measure microscopic objects.			
Examination forms	Presence, task, quiz, mid semester exam, final semester exam, case study, team based project.			



Study and examination requirements	The fi	The final mark will be weight as follow:				
	NO	Assessment Techniques	Percentage Weight Assessment (%)	Information		
	1	Cognitive	50	Maximum assessment weight accumulation 50%		
		Presence	5			
		Task	5			
		Quiz	5			
		Mid-semester exams	10			
		Final Semester Exam	25			
	2	Participatory	50	Maximum assessment weight accumulation 50%		
		Case study	25			
		Team Based Project	25			
		Total	100			
Reading list	B. F	Identification of Giant Mimi-Mintuno (Tachuleus gigas) During Artificial Incubation Period in the Vial Bottles. Jurnal Sains Dasar. Vol.4 No. 1.				
	C. F	<u> </u>				
	D. k	D. Koesmadji Wirjosoemarto, dkk., 2000. Teknik Laboratorium. Jurusan Pendidikan Biologi, FMIPA, UPI, Bandung.				
	N	E. Yeung E.C.T., Stasolla C., Sumner M.J., Huang B.Q. 2015. Plant Microtechniques and Protocols. Springer International Publishing Switzerland.				
	F. K					