

Universitas Negeri Surabaya Faculty of Mathematics and Natural Sciences Biology Undergraduate Study Program

Document Code

SEMESTER LEARNING PLAN

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Courses			CODE			С	ourse	e Fan	nily		Cre	dit We	eight		SEME	ESTER		Com Date	pilatio	ı
Ethnobotany			4620102062	2		St	tudy F	Progra	am Ele	ective	T=2	2 P=0	ECT	S=3.18		6		July 1	l7, 202	4
AUTHORIZAT	TION		SP Develop	ber		Ŭ	ouroo	0		Cours	se Cl	uster	Coordi	nator	Study	/ Progr	am Co	ordina	tor	
			Dr. Novita K	artika	Indah, S	.Pd.,	,M.Si.			Dr. Yı	uliani,	M.Si.			Dr.	H. Sun	u Kuntj	oro, S.S	Si., M.S	Si.
Learning model	Project Based L	earning																		
Program	PLO study program that is charged to the course																			
Outcomes (PLO)	PLO-6	Able to apply logical, critical, systematic and innovative thinking in the context of developing or implementing science and/or technology according to their field of expertise.																		
	PLO-10	Able t to ma	Able to design and conduct experiments in the field of biology, manage, analyze, interpret, document and store research data, to manage biological natural resources																	
	PLO-14	Able to apply biological knowledge and technology to solve natural resource and environmental problems both in the laboratory and in real practice that supports profession and/or entrepreneurship																		
	Program Objec	tives ((PO)																	
	PO - 1	Maste	ring the conc	epts o	fstudying	g eth	nnic re	elatio	nships	with p	lants	in thei	r enviro	nment						
	PO - 2	Critica preser	ally analyze lo rve the plants	ocal/tra used.	ditional	com	munit	y kno	wledg	je to ut	ilize p	olants	to supp	oort thei	eir lives as well as community efforts to					
	PO - 3	Apply ethnot	ethnobotanic botany.	cal cor	ncepts th	nat h	nave	been	mast	ered in	solv	ing pro	oblems	proced	lurally	rally in accordance with the field of				
	PO - 4	Skilleo suppo	d in recogniz ort their lives	ing, in	terpreting	g ar	nd do	cume	nting	the cul	ltural	values	s of loo	al/tradi	tional (commu	nities to	o utilize	e plant	s to
	PO - 5	Make betwe	the right dec en humans a	cisions .nd pla	based onts indep	on a bend	analys Iently	is of and i	inforn n grou	nation a ps	and c	lata, a	nd be	able to	provid	le guida	ance o	n the r	elation	ship
	PO - 6	Maste	ring ethnobot	tanical	research	1 inc	luding	g plar	ning,	analysi	s and	l repor	ting.							
	PLO-PO Matrix																			
			P.0		PLO-6			PLO	-10		PLO	-14								
			PO-1																	
			PO-2																	
			PO-3																	
			PO-4																	
			PO-5																	
			PO-6																	
	PO Matrix at th	e end (of each lear	rning	stage (S	Sub-	-PO)													
			DO									14/0.0								1
			P.0	1	2 3	2	4	5	6	7	8	vveel	10	11	12	13	14	15	16	
		PO	0-1	-		,	-	0	•		0	5	10		12	10		10	10	
		PO)-2																	
		PO)-3																	
		PO)-4																	
		PO)-5																	
		PO	D-6			╈														
																				•
Short Course Description	This course discu with plant resourd ecology and phy discussion metho	usses a ces and tochem ds and	and studies th d examines th histry as well project assig	ne culti he cult as sti nment	ural valu tural valu udying lo s	es o les o ocal	of loca of pla wisdo	al con nts ir om re	nmuni 1 term elated	ties cor s of mu to con	ntaine ultidis serva	ed in th ciplina ttion. p	ne use ry bota plant ad	of plant iny, nan daptatio	s, the nely ta n. Lec	interact xonomy ture ma	tion of I /, morp aterial i	ocal co hology, s deliv	ommun anato ered u	ities my, sing

Referen	ces	Main :						
		 Akademi diakses t Cotton, C Edwards Nurjanah crenata) Simpson Martin, G Waluyo, Pamerar Walujo, I Keaneka 	Ilmu Pengetahuan I anggal 23 April 2014 C.M. 1996. Ethtobotnm Peter. 1980. Food Po n, Aulia Azka, Asadatu . Jurnal Inovasi dan K , Michael G . 2010. Pit Baroto Eko. 1999. Pe n/Bursa Tumbuhan Ob E. B. 2004. Pengump ragaman Flora. Pusat	ndonesia. 2013. Diskusi I y : Principles and Applicatio tential of Aquatic Macrophy in Abdullah . September 2 ewirausahaan vol 1 Nomor ant Systematics second ed Tratural Hystory Publicatio rndekatan Etnobotani Dala at di Kebun Raya Bogor tid ulan Data Etnobotani dala Penelitian Biologi LIPI Bog	Panel: Perken ons . John Wile /tes. Philipina: 2012. Aktivitas 3. hal 152-158 ition. Amsterda m Borimco. Ma m Penelitian T ak dipublikasi. m Rugayah, E jor. hal.77-90.	nbangan Etnobotani di li ey and Sons. Singapore. International For Living A Antioksidan dan Kompo 8. am: Elsevier . alaysia. Umbuhan Obat Indonesia Bogor: Kebun Raya Bogo Elizabeth A W dan Praptiv	ndonesia. Online. http:// quatic Resources Manaq nen Bioaktif Semanggi a. Makalah Utama Semir or. wi (Ed), Pedoman Peng	gement air (Marsilea nar Sehari dan umpulan Data
		Supporters:						
		 Indah, N. Akademi diakses t Dinas Ko 2014. Purwanto Memban Univ. Jar Hakim, L La Hisa, Papua: E Yulian Motif Bat 	I., Yuliani, Wisanti, Ev Ilmu Pengetahuan I anggal 23 April 2014. omunikasi dan Informa o, U. 1999. Etnobotani gun Lingkungan Hidu nabadra. Fak. Biologi o 2014. Dasar-dasar E Agustinus Mahuze, I Balai Taman Nasional ¹ i, Susanti, Sari Kusur ik di Proppo Pamekas	va Kristinawatu P., 2022. Pa ndonesia. 2013. Diskusi F atika Surabaya. Wisata Bu -Bioteknologi : Keterkaitan p Yang Lestari Dengan M dari Prodi Sosiologi FISIP U kowisata. Malang : Bayum Wayan Arka. 2018. Etnob Wasur. na Dewi, Novita Kartika Ir an. Prosiding Seminar Nas	anduan Tugas Panel: Perkem Idaya dan Kul Sistem Penge emanfaatkan I Jniversitas Atm edia. Jootani : penge Idah. 2019. Ke ional dan Worl	Proyek Etnobotani. Surat bangan Etnobotani di Ir liner. http://dinkominfo.sur etahuan Tradisional dan M Bioteknologi Berbasis Ke- na Jaya dan Kehati. Yogya tahuan lokal suku Marori earifan Lokal Keanekarag kshop Biologi-IPA dan Pe	paya: Jurusan Biologi. Idonesia. Online. http:// abaya.go.id. Diakses ta Iodern. Makalah pada Su anekaragaman Hayati. I akarta, 30 Juni 1999. I di Taman Nasional Wa Jaman Tumbuhan dan h mbelajaran KE-4.	www.aipi.or.id/ nggal 22 April eminar IImiah : Fak. Pertanian asur Merauke. wwan sebagai
Support lecturer	ting	Dr. Wisanti, M.S. Prof. Dr. Yuliani, Dr. Novita Kartika	M.Si. a Indah, S.Pd, M.Si					
Week-	Fina eac stag	al abilities of h learning ge	Eva	aluation	Help Learning, Learning methods, Student Assignments, [Estimated time]		Learning materials [References]	Assessment Weight (%)
	(Su	b-PO)	Indicator	Criteria & Form	Offline (offline)	Online (<i>online</i>)		
(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Ur ett co	iderstand inobotanical ncepts	 1.1. Understand the various meanings of ethnobiology 2.2. Understand the history of ethnobotany 3.3. Understand the scope of ethnobotany 	Criteria: 1.Reports and products are assessed as ASSIGNMENTS with a weight of 30%, 2.USS weight 20% 3.Student activities and responses during learning activities are assessed as PARTICIPATION, weight 20% 4.US weight 3-% 5.Essay questions are assessed together at USS 6.US weight 30% Form of Assessment : Project Results	1. lecture 2. Discussion 3. Assignment 100 minutes	1. lecture 2. discussion 3. assignment 100 minutes	Material: • Various definitions of ethnobotany • History of the emergence of ethnobotany Reference: <i>Cotton</i> , <i>CM</i> 1996. Ethtobotnny: Principles and Applications. John Wiley and Sons. Singapore.	5%
2	2 Understand the emic and ethical studies of the relationship between plants and their environment		Understand the scope of ethnobotany • Explain the field of ethnobotany studies	Assessment Criteria: 1.Reports and products are assessed as ASSIGNMENTS with a weight of 30%, 2.USS weight 20% 3.Student activities and responses during learning activities, especially practicums, are assessed as PARTICIPATION, weight 20% 4.Essay questions are assessed together at USS 5.US weight 30% Form of Assessment : Participatory Activities	1. Lecture, 2. discussion, 3. assignment 100 minutes	1. Lecture, 2. discussion, 3. assignment 100 minutes		5%
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3	Understand the concept of local knowledge and local wisdom	Understand the concept of local knowledge	Criteria: 1.Reports and products are assessed as ASSIGNMENTS with a weight of 30%, 2.USS weight 20% 3.Student activities and responses during learning activities, especially practicums, are assessed as PARTICIPATION, weight 20% 4.Essay questions are assessed together at USS Form of Assessment : Participatory Activities, Project Results Assessment / Product Assessment	1. lecture 2. discussion 3. assignment 100 minutes	1. lecture 2. discussion 3. assignment 100 minutes	Material: • Differentiating between ethnic and emic studies • ldentifying ethnic and emic studies • explaining local knowledge Library: Indonesian Academy of Sciences. 2013. Panel Discussion: Development of Ethnobotany in Indonesia. On line. http://www.aipi.or.id/ accessed 23 April 2014	5%
4	Understand the concept of local knowledge and local wisdom	 1.1. Understand the concept of local wisdom 2.3. Identify local knowledge and local wisdom 	Criteria: 1.Practical reports and products are assessed as ASSIGNMENTS with a weight of 30%, 2.USS weight 20% 3.Student activities and responses during learning activities, especially practicums, are assessed as PARTICIPATION, weight 20% 4.Essay questions are assessed together at USS Form of Assessment : Participatory Activities	1. lecture 2. discussion 3. assignment 100 minutes	1. lecture 2. discussion 3. assignment 100 minutes	Material: Definition of local wisdom, examples of local wisdom Reference: Martin, GJ 1998. Ethnobotany. Tratural Hystory Publication Borimco. Malaysia.	5%
5	Understand the concept of local knowledge and local wisdom	Understand the concept of ethnotaxonomy	Criteria: 1.Practical reports and products are assessed as ASSIGNMENTS with a weight of 30%, 2.USS weight 20% 3.Student activities and responses during learning activities, especially practicums, are assessed as PARTICIPATION, weight 20% 4.Essay questions are assessed together at USS 5.US weight 30% Form of Assessment : Participatory Activities, Project Results Assessment / Product Assessment	1. lecture 2. discussion 3. assignment 100 minutes	1. lecture 2. discussion 3. assignment 100 minutes	Material: Ethnotaxonomic concepts and examples References: Martin, GJ 1998. Ethnobotany. Tratural Hystory Publication Borimco. Malaysia.	5%

6	 Understand the application of ethnobotany in various fields of science Explain the application of ethnobotany in various fields of science Understand the application of food ethnobotany Distinguish between agricultural ethnobotany and food ethnobotany 	 1.1. Explain the application of ethnobotany to various sciences 2.2. Understand the application of agricultural ethnobotany 3.3. Understand the application of food ethnobotany 	Criteria: 1.Practical reports and products are assessed as ASSIGNMENTS with a weight of 30%, 2.USS weight 20% 3.Student activities and responses during learning activities, especially practicums, are assessed as PARTICIPATION with a weight of 20%	1. lecture 2. discussion 3. assignment 100 minutes	1. lecture 2. discussion 3. assignment 100 minutes		5%
7	Understand the application of ethnobotany in various fields of science	 1.5. Understand the ethnobotany of medicine 2.6. Understand ethnobotanical medicine 3.7. Distinguish between ethnobotany medicine and ethnobotany medicine 4.8. Understand cultural anthropology 	Criteria: 1.Practical reports and products are assessed as ASSIGNMENTS with a weight of 30%, 2.USS weight 20% 3.Student activities and responses during learning activities, especially practicums, are assessed as PARTICIPATION with a weight of 20% 4.Essay questions are assessed together at USS Form of Assessment : Project Results Assessment / Product Assessment	1. lecture 2. discussion 3. assignment 100 minutes	1. lecture 2. discussion 3. assignment 100 minutes	Materials: • Ethnobotany medicine • Ethnobotany medicine • Cultural anthropology • Ethnotourism Reference: Hakim, L. 2014. Basics of Ecotourism. Malang: Bayumedia.	10%
8				USS 100 minutes	USS 100 minutes		20%
9	Understand examples of ethnobotanical research	 1.1. Understand ethnobotany articles 2.2. Present a biology article 3. find the advantages and disadvantages of ethnobiology articles 	Criteria: 1.Reports and products are assessed as ASSIGNMENTS with a weight of 30%, 2.Student activities and responses during learning activities, especially practicums, are	1. discussion 2. assignment 3. presentation 100 minutes	 discussion assignment presentation minutes 	Material: Enobiology articles Bibliography: Waluyo, Baroto Eko. 1999. Ethnobotanical Approach in Research on Indonesian Medicinal Plants. The Main Paper of the One Day Seminar and Medicinal Plant	10%
			PARTICIPATION, weight 20% 3.USS weight 20%, 4.US bottle 30% Form of Assessment : Project Results Assessment / Product Assessment			Exhibition/Exchange at the Bogor Botanical Gardens was not published. Bogor: Bogor Botanical Gardens.	

11		 1.1. Understand quantitative research 2.2. Understand qualitative research 3.3. Identify quantitative research 	Criteria: 1. The report and product are rated as DUTY with a weight of 30%, US bottle 3 2. USS weight 20%, 3. Student activities and responses during learning activities, especially practicums, are assessed as PARTICIPATION with a weight of 20%, Form of Assessment : Project Results Assessment / Product	1. lecture 2. discussion 100 minutes	1. lecture 2. discussion 100 minutes	Material: Qualitative research References: Walujo, EB 2004. Ethnobotanical Data Collection in Rugayah, Elizabeth AW and Praptiwi (Ed), Guidelines for Collecting Flora Diversity Data. LIPI Bogor Biology Research Center. p.77-90.	5%
12	Able to design ethnobotanical research in the surrounding environment	 1.1. Critically analyze the knowledge of local/traditional communities in the surrounding environment 2.2. Write critically about the background to ethnobotanical problems in the surrounding environment 3.3. Write down the objectives of ethnobotanical research in the surrounding environment 	Criteria: 1.The report and product are rated as DUTY with a weight of 30%, US bottle 3 2.USS weight 20%, 3.Student activities and responses during learning activities, especially practicums, are assessed as PARTICIPATION with a weight of 20%	100 minute discussion	100 minute discussion	Material: Project Assignments References: Indah, NI, Yuliani, Wisanti, Eva Kristinawatu P., 2022. Guide to Ethnobotany Project Assignments. Surabaya: Biology Department.	5%
13	Able to design ethnobotanical research in the surrounding environment	1. 2.Develop ethnobotanical research instruments	Criteria: 1.Reports and products are rated as DUTY with 30% weight, USS 20% weight, USS bottle 3 2.Student activities and responses during learning activities are assessed as PARTICIPATION with a weight of 20%, 3.USS weight 20%, Form of Assessment : Project Results Assessment / Product Assessment	100 minute discussion	100 minute discussion		5%
14	Able to design ethnobotanical research in the surrounding environment		Criteria: 1. The report and product are rated as DUTY with a weight of 30%, US bottle 3 2. USS weight 20% 3. Student activities and responses during learning activities are assessed as PARTICIPATION with a weight of 20%, Form of Assessment : Project Results Assessment / Product Assessment	100 minute discussion	100 minute discussion	Material: Project Assignments References: Indah, NI, Yuliani, Wisanti, Eva Kristinawatu P., 2022. Guide to Ethnobotany Project Assignments. Surabaya: Biology Department.	10%

15		Criteria: 1. The report and product are rated as DUTY with a weight of 30%, US bottle 3 2. USS weight 20%, 3. Student activities and responses during learning activities are assessed as PARTICIPATION with a weight of 20%, Form of Assessment : Project Results Assessment / Product Assessment	1. discussion, 2. presentation 100 minutes	1. discussion, 2. presentation 100 minutes	Material: Project Assignments References: Indah, NI, Yuliani, Wisanti, Eva Kristinawatu P., 2022. Guide to Ethnobotany Project Assignments. Surabaya: Biology Department.	10%
16	UAS	Form of Assessment : Test	US 100 minutes	US 100 minutes		20%

Evaluation Percentage Recap: Project Based Learning contago

140	Evaluation	1 crocintage
1.	Participatory Activities	15%
2.	Project Results Assessment / Product Assessment	65%
3.	Test	20%
		100%

Notes

- 1. Learning Outcomes of Study Program Graduates (PLO Study Program) are the abilities possessed by each Study Program graduate which are the internalization of attitudes, mastery of knowledge and skills according to the level of their study program obtained through the learning process.
- 2. The PLO imposed on courses are several learning outcomes of study program graduates (CPL-Study Program) which are used for the formation/development of a course consisting of aspects of attitude, general skills, special skills and knowledge.
- 3. Program Objectives (PO) are abilities that are specifically described from the PLO assigned to a course, and are specific to the study material or learning materials for that course.
- 4. Subject Sub-PO (Sub-PO) is a capability that is specifically described from the PO that can be measured or observed and is the final ability that is planned at each learning stage, and is specific to the learning material of the course.
- 5. Indicators for assessing ability in the process and student learning outcomes are specific and measurable statements that identify the ability or performance of student learning outcomes accompanied by evidence.
- 6. Assessment Criteria are benchmarks used as a measure or measure of learning achievement in assessments based on predetermined indicators. Assessment criteria are guidelines for assessors so that assessments are consistent and unbiased. Criteria can be quantitative or qualitative.
- Forms of assessment: test and non-test. 7
- 8. Forms of learning: Lecture, Response, Tutorial, Seminar or equivalent, Practicum, Studio Practice, Workshop Practice, Field Practice, Research, Community Service and/or other equivalent forms of learning.
- 9 Learning Methods: Small Group Discussion, Role-Play & Simulation, Discovery Learning, Self-Directed Learning, Cooperative Learning, Collaborative Learning, Contextual Learning, Project Based Learning, and other equivalent methods.
- 10. Learning materials are details or descriptions of study materials which can be presented in the form of several main points and subtopics.
- 11. The assessment weight is the percentage of assessment of each sub-PO achievement whose size is proportional to the level of difficulty of achieving that sub-PO, and the total is 100%.
- 12. TM=Face to face, PT=Structured assignments, BM=Independent study.