

Universitas Negeri Surabaya Faculty of Social and Legal Sciences Geography Education Undergraduate Study Program

Document Code

SEMESTER LEARNING PLAN

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Courses			CODE			С	ours	e Fan	nily		Credi	t Wei	ght		SEI	MEST	ER	Con Date	npilat Ə	ion
Oceanograph	ıy		8720202110								T=2	P=0	ECTS	S=3.18	;	4		July	17, 2	024
AUTHORIZAT	TION		SP Develop	er					Co	ourse	Clus	ter C	oordir	nator	Study Program Coordinator				tor	
			Drs. Bambang Hariyanto, M.Pd. / Dr. Nugroho Hari Purnomo, M.Si.					Drs. Bambang Hariyanto, M.Pd.				Dr. Nugroho Hari Purnomo, S.P., M.Si.				10,				
Learning model	Case Studies																			
Program	PLO study prog	ogram that is charged to the course																		
Learning Outcomes (PLO)	PLO-3	Develop logical, critical, systematic and creative thinking in carrying out specific work in their field of expertise and in accordance with work competency standards in the field concerned																		
	PLO-7	Able to make appropriate decisions to resolve regional problems in a spatial context based on an integrated geographic approach																		
	PLO-8	Able integ	le to obtain, process, analyze, present geosphere data and information using geospatial technology in egrated geographic studies with in-depth urban studies that support regional sustainability																	
	Program Object	ives	6 (PO)																	
	PO - 1	Synt	hesize the con	cepts	s of g	eogra	aphy a	and o	cean	ograp	hy									
	PO - 2	Synt	hesizing coast	al are	eas															
	PO - 3	Synt	hesize coastal	envi	onm	ents a	and m	narine	envi	ronm	ents									
	PO - 4	Synt	hesizing marin	e dyr	namic	s														
	PLO-PO Matrix																			
											-									
			P.O		PL	.0-3			PLO-	7 PLO-8										
			PO-1			1														
			PO-2								1									
			PO-3			1				1										
			PO-4			1							/							
	PO Matrix at the	e end	d of each lea	rning	l sta	ge (S	Sub-F	PO)												
																				_
			P.O									Week								
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
		P	90-1	>	>	1					1									
		F	20-2														1	1		
		F	90-3									1	•							
		P	PO-4				1	~	>	1				•	1	<			>	
																				-
Short Course Description	waters correctly; a potential of marine marine potential d precise cross-sec	I nclusions about the physical and chemical conditions of sea water through identifying the characteristics of able to map ocean current conditions throughout the world through precise performance; able to assess he waters in terms of biology, marine resources and exclusive economic zones with the help of precise maps a data, able to explain the physical conditions of coastal areas through identifying coastal waters phenomena v ctional images. Learning is carried out for one semester using a discovery inquiry approach with demonstra ums and individual and group LKM assignments. Assessment is carried out through written tests and portfolio							the and with ation											
References	Main :																			
			•																	

	2. Sverdrup (Tenth E 3. Anugrah 4. Sahala H Press). 5. Thurman 6. Defri Yo 7. Wibisond Supporters: 1. Nybakke 2. Rohmin I 3. Direktora Dan Pera	o, Keith A, Armbru dition), New York e Nontji. 1987. Laut Hutabarat dan Ste I, Harold.V. 1983. I na dkk.; Fundame ;Pengantar Ilmu K n. 1992. Biologi lau Dahuri dkk;Pengel It Bina Sumber Ha airan ZEE Indones	et al Nusantara. Jakarta : wart M.Evans. 1986 Essentials Of Oceano ntal Oseanografi; UB ielautan; Grasindo ut. PT. Gramedia, Jak olaan Sumberdaya W yati. 1983. Hasil Eval	An Introduction Penerbit Djamt . Pengantar O: graphy. Ohio: C Press arta filayah Pesisir c	n to The Word Oceans,	nerbit Universitas ning Company. du; Pradnya Parar	Indonesia (UI-
Support lecturer	ing Drs. Bambang Ha Dr. Nugroho Hari Final abilities of each learning	Purnomo, S.P., M	.Si.	Lear Stude	elp Learning, rning methods, nt Assignments,	Learning materials [References]	Assessment
Week-	stage (Sub-PO)	Indicator	Criteria & Form	Offline (offline)	stimated time] Online (<i>online</i>)		Weight (%)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Analyze the concept of Oceanography based on the development of geographic science	accuracy in explaining the ocean system of Indonesia and the world	Criteria: Completed >69 Forms of Assessment : Participatory Activities, Project Results Assessment / Product Assessment, Tests	lecture, discussion, question and answer 2 X 50		Material: Indonesian Seas Reference: Anugrah Nontji. 1987. Archipelago Sea. Jakarta: Djangkat Publishers. Material: world ocean Bibliography: Sverdrup, Keith A, Armbrust E. Virginia, 2009, An Introduction to The Word Oceans, Mc Graw Hill International Ed, (Tenth Edition), New York et al	10%
2	Understand oceanographic concepts based on developments in oceanographic science and research	Accuracy in explaining oceanographic concepts based on developments in oceanographic science and research	Criteria: Completed >69 Form of Assessment : Participatory Activities	questions and answers, discussion 2 X 50		Material: oceanographic concepts Reference: Ross, David A, 1977, Introduction to Oceanography, New York : Prentice Hall Material: development and research of oceanography References: Thurman, Harold.V. 1983. Essentials Of Oceanography. Ohio: Charies E. Merrill Publishing Company.	10%

3	Understand oceanographic concepts based on developments in oceanographic science and research	Accuracy in explaining oceanographic concepts based on developments in oceanographic science and research	Criteria: Completed >69 Form of Assessment : Participatory Activities	questions and answers, discussion 2 X 50	Material: oceanographic concepts Reference: Ross, David A, 1977, Introduction to Oceanography, New York : Prentice Hall Material: development and research of oceanography References: Thurman, Harold.V. 1983. Essentials Of Oceanography. Ohio: Charies E. Merrill Publishing Company.	5%
4	Examining the configuration of ocean waters and its relationship to climate	Accurately understanding the configuration of ocean waters and its relationship to climate	Criteria: Completed >69 Form of Assessment : Participatory Activities	question and answer, discussion, presentation 2 X 50	Material: seabed Bibliography: Sahala Hutabarat and Stewart M.Evans. 1986. Introduction to Oceanography. Jakarta: University of Indonesia Publishers (UI- Press). Material: sea Bibliography: Ross, David A, 1977, Introduction to Oceanography, New York : Prentice Hall Material: ocean atmosphere Bibliography: Thurman, Harold.V. 1983. Essentials Of Oceanography. Ohio: Charies E. Merrill Publishing Company.	5%

5	Examining the configuration of ocean waters and its relationship to climate	Accurately understanding the configuration of ocean waters and its relationship to climate	Criteria: Completed >69 Forms of Assessment : Participatory Activities, Practical Assessment, Practical / Performance	question and answer, discussion, presentation 2 X 50	Material: seabed Bibliography: Sahala Hutabarat and Stewart M.Evans. 1986. Introduction to Oceanography. Jakarta: University of Indonesia Publishers (UI- Press). Material: sea Bibliography: Ross, David A, 1977, Introduction to Oceanography, New York : Prentice Hall Material: ocean atmosphere Bibliography: Thurman, Harold.V. 1983. Essentials Of Oceanography. Ohio: Charies E. Merrill Publishing Company.	5%
6	Analyzing Ocean Crustal Structure and changes in geological basins	- Explain the theory of ocean formation - Analyze the structure of the ocean crust Analyze changes in ocean basins	Criteria: answers according to the answer key Form of Assessment : Participatory Activities, Portfolio Assessment	Discussion and questions and answers, 2 X 50 assignments	Material: sea References: Defri Yona et al.; Oceanography Fundamentals; UB Press Material: sea Bibliography: Thurman, Harold.V. 1983. Essentials Of Oceanography. Ohio: Charies E. Merrill Publishing Company.	5%
7	Analyzing Ocean Crustal Structure and changes in geological basins	- Explain the theory of ocean formation - Analyze the structure of the ocean crust Analyze changes in ocean basins	Criteria: answers according to the answer key Form of Assessment : Participatory Activities, Portfolio Assessment	Discussion and questions and answers, 2 X 50 assignments	Material: sea References: Defri Yona et al.; Oceanography Fundamentals; UB Press Material: sea Bibliography: Thurman, Harold.V. 1983. Essentials Of Oceanography. Ohio: Charies E. Merrill Publishing Company.	5%
8	UTS	accuracy of analysis	Criteria: Completed >69 Form of Assessment : Test	2 X 50 test	Material: basics of oceanography Reference: Ross, David A, 1977, Introduction to Oceanography, New York : Prentice Hall	5%

9	Understanding the marine environment, marine biology, sea water	accurate understanding of the marine environment, marine biology, sea water	Criteria: Completed >69 Form of Assessment : Participatory Activities	discussion, question and answer 2 X 50	Material: biology Bibliography: Nybakken. 1992. Marine biology. PT. Gramedia, Jakarta	5%
					Material: biological Reference: Directorate of Biological Resources Development. 1983. Results of Evaluation of the Potential of Marine Fisheries Biological Resources in Indonesian Waters and Indonesian EEZ Waters.	
10	Understanding the marine environment, marine biology, sea water	accurate understanding of the marine environment, marine biology, sea water	Criteria: Completed >69 Form of Assessment : Participatory Activities	discussion, question and answer 2 X 50	Material: biology Bibliography: Nybakken. 1992. Marine biology. PT. Gramedia, Jakarta	5%
					Material: biological Reference: Directorate of Biological Resources Development. 1983. Results of Evaluation of the Potential of Marine Fisheries Biological Resources in Indonesian Waters and Indonesian EEZ Waters.	

11	Understand marine dynamics (tides, currents, waves, up & down welling)	Accurate understanding of marine dynamics (tides, currents, waves, up & down welling)	Criteria: Completed >69 Form of Assessment : Participatory Activities	questions and answers, discussions, assignments 2 X 50	Material: dynamics References: Ross, David A, 1977, Introduction to Oceanography, New York : Prentice Hall	5%
					Material: dynamics References: Defri Yona et al.; Oceanography Fundamentals; UB Press	
					Material: dynamics Reader: Sahala Hutabarat and Stewart M.Evans. 1986. Introduction to Oceanography. Jakarta: University of Indonesia	
					Publishers (UI- Press). Material: dynamics References: Thurman, Harold.V. 1983. Essentials Of Oceanography.	
					Ohio: Charies E. Merrill Publishing Company.	

12	Understand marine	Accurate	Criteria:	questions	Material:	10%
12	Understand marine dynamics (tides, currents, waves, up & down welling)	Accurate understanding of marine dynamics (tides, currents, waves, up & down welling)	Criteria: Completed >69 Form of Assessment : Participatory Activities, Portfolio Assessment	questions and answers, discussions, assignments 2 X 50	dynamics References: Ross, David A, 1977, Introduction to Oceanography, New York : Prentice Hall Material: dynamics References: Defri Yona et al.; Oceanography Fundamentals; UB Press Material: dynamics Reader: Sahala Hutabarat and Stewart M.Evans. 1986. Introduction to Oceanography. Jakarta: University of Indonesia Publishers (UI- Press). Material: dynamics References: Thurman, Harold.V. 1983.	10%
					1983. Essentials Of Oceanography. Ohio: Charies E. Merrill Publishing Company.	
					Company.	

13	Understand marine dynamics (tides, currents, waves, up & down welling)	Accurate understanding of marine dynamics (tides, currents, waves, up & down welling)	Criteria: Completed >69 Form of Assessment : Participatory Activities, Portfolio Assessment	questions and answers, discussions, assignments 2 X 50	Material: dynamics References: Ross, David A, 1977, Introduction to Oceanography, New York : Prentice Hall Material: dynamics References: Defri Yona et al.; Oceanography Fundamentals; UB Press Material: dynamics Reader: Sahala Hutabarat and Stewart M.Evans. 1986. Introduction to Oceanography. Jakarta: University of Indonesia Publishers (UI- Press). Material: dynamics References: Thurman, Harold.V. 1983. Essentials Of Oceanography. Ohio: Charies E. Merrill Publishing Company.	10%
14	Understand the characteristics of coastal areas and environments	Achievement of understanding the characteristics of coastal areas and environments	Criteria: Completed >69 Form of Assessment : Portfolio Assessment	questions and answers, discussion 2 X 50	Material: coast Bibsono ; Introduction to Marine Science; Grasindo Material: coast Reference: Rohmin Dahuri et al; Integrated Management of Coastal and Marine Area Resources; Pradnya Paramita	5%
15	Understand the characteristics of coastal areas and environments	Achievement of understanding the characteristics of coastal areas and environments	Criteria: Completed >69 Form of Assessment : Participatory Activities, Portfolio Assessment	questions and answers, discussion 2 X 50	Material: coast Bibsono ; Introduction to Marine Science; Grasindo Material: coast Reference: Rohmin Dahuri et al; Integrated Management of Coastal and Marine Area Resources; Pradnya Paramita	5%

16	final exams	accuracy of analysis	Criteria: Completed > 65 Form of Assessment : Test	2 X 50 test	app oce Ref <i>Rol</i> <i>et a</i> <i>inte</i> <i>Mai</i> <i>of C</i> <i>Occ</i> <i>Res</i> <i>Pra</i>	tterial: plied eanography ferences: hmin Dahuri al; egrated anagement Coastal and cean sources; adnya ramita	5%
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Evaluation Percentage Recap: Case Study

No	Evaluation	Percentage
1.	Participatory Activities	57.5%
2.	Project Results Assessment / Product Assessment	3.33%
3.	Portfolio Assessment	22.5%
4.	Practical Assessment	1.67%
5.	Practice / Performance	1.67%
6.	Test	13.33%
		100%

Notes

- 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.
- 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 abilities in the process and student learning outcomes are specific and measurable statements that identify the abilities 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.
- 7. Forms of assessment: test and non-test.
- 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 sub-topics.
- 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.