

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

Document Code

SEMESTER LEARNING PLAN

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Courses			CODE				Cou	rse F	amil	у	Cre	Credit Weight			5	SEMES	TER	Cor Dat	npilati e	on
Physics of Pl	notography		842030224	6							T=:	2 P	9=0	ECTS=3.	18	4		July	18, 2	ງ24
AUTHORIZAT	ΓΙΟΝ		SP Develo	per						Cour	se Cl	uste	er Co	ordinato	r S	Study I	Progra	m Co	ordina	ator
			Abd. Kholic	, S.Pc	d., M.	т.										Mita	Angga Pl	ıryani, h.D.	M.Pd.	•,
Learning model	Project Based	Learn	ing																	
Program	PLO study pr	ogran	n that is ch	argeo	d to t	he c	ours	e												
Learning Outcomes	Program Objectives (PO)																			
(PLO)	PO - 1	Exam	nining the the	ory ar	nd de	velop	oment	t of pł	notog	graphy	/									
	PO - 2 Skilled in reviewing and using digital cameras																			
	PO - 3	> - 3 Examining the language of photography																		
	PO - 4	O - 4 Examining photovoice or photonovella theories																		
	PO - 5	Skille	d in applying	photo	ovoice	e in tł	ne fie	ld of I	ohys	cs										
	PO - 6	Skille	d at applying	theor	ry into	o pho	togra	phy p	hysi	cs mir	ni-proj	ects								
	PLO-PO Matr	ix																		
	PO Matrix at 1	the en	PO-1 PO-2 PO-3 PO-4 PO-5 PO-6	earni	ing s	tage	(Sul	0-PO)											
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			P.O									We	ek]
				1	2	3	4	5	6	7	8	9	10) 11	12	13	14	15	16	
		P	D-1																	
		P	D-2																	
		P	7-3																	
)-4) F																	
			J-5																	
			0-0										1]
Short Course Description	This course is photography, c language of ph	a co camera otograj	urse that de reviews, b phy, photovo	evelop asic p ice/ph	os kn ohoto noton	owleo grapi ovella	dge a hy te a, pho	and s chniq otovoi	skills ues ce ir	relate using phys	ed to ⊨ DSL ics, a	pho R c nd p	otogr ame hoto	aphy whi ras and graphy ph	ch ir Andr ysics	ncludes oid cel s mini-p	the llphone projects	develc e cam s.	pmen eras,	t of the
References	Main :																			
			1																	

		 Tom Ang. 2018. Digital Photography: An Introduction, 5th edition. DK, Dorling Kindersley. David Taylor, Tracy Hallett, Paul Sainders, & Paul Lowe. 2015. Digital Photography Complete Course . DK, Dorling Kindersley 									
		3. A O L	 A O Latz & Thalia M. Mulvihill. 2017. Photovoice research in education and beyond: A practical guide from theory to exhibition. New York: Taylor Francis 								
		4. Miche 5. Nadi	Michele Jarldorn. 2019. Photovoice Handbook for Social Workers . Palgrave, Mac Millan, Springer Nature. Nadi Suprapto. Titin Sunarti, & Sulivanah. 2020. Profil laboratorium Fisika SMA di Jawa Timur melalui Photovoice.								
		Pener 6. Nadi	Penerbit Popes Jagad Alimussiry. Nadi Sunranto Titin Sunarti Sulivanah Desi Wulandari Hasan N Hidavaatullaah Alif S Adam Husni Muharok								
		2020. and R	Systematic review of esearch in Education	of photovoice as parti n (IJERE)	cipatory action	research strategies. Inte	rnational Journal	of Evaluation			
		7. Ryan vision	 7. Ryan F. Reese, Christopher M. Seitz, Marjorie Gosling & Hannah Craig. 2019. Using photovoice to foster a student vision for natural spaces on a college campus in the Pacific Northwest United States, International Journal or 								
		8. Sheri Reflec	 Environmental Health Research, DOI: 10.1080/09603123.2019.1593950 8. Sheri M. Treadwell & Neva Taylor. 2017. PE in Pictures: Using Photovoice to Promote Middle School Students Reflections on Physical Activity during Free Time, Journal of Physical Education, Recreation & Dance, 88:4, 26-33, DOI: 								
		9. Camil	le A. Sutton-Brown.	200430 2014. Photovoice: A	Methodologica	l Guide, Photography an	d Culture, 7:2, 1	.69-185, DOI:			
		10.27 10.Meag	an Call-Cummings,	Melissa Hauber-Özer	r, Christie Bye	rs & Greer Peden Man	cuso. 2018. Th	e power of/in			
		11.Katha Metho	rine J. Herbert, Au	my Baize-Ward & A	manda O. La	atz. 2018. Transformativ	e Pedagogy wi	th Innovative			
		Resea	arch and Practice, 42 Brendan Young	2017 PhotoVoice	0.1080/1066892	26.2018.1431572		n classroom			
		Comn 13. Marc	unication Teacher, 3 Behrendt & Krisanr	31:4, 226-230, DOI: 10 a Machtmes 2016	0.1080/1740462 Photovoice as	22.2017.1358381 an evaluation tool for si	udent learning o	on a field trip.			
		Resea 14. Jody	arch in Science & Te	chnological Education, Walker , Gavin Colou	DOI: 10.1080/	02635143.2015.1124410 chard. 2014. Using Photo	voice to Determi	ne Preservice			
		Teach 10.10	ers Preparedness 80/07303084.2014.8	to Teach, Journal 55595	of Physical E	Education, Recreation &	Dance, 85:1,	22-27, DOI:			
		15. Claud The Ir	ia Baldwin & Lisa Ch Iternational Journal o	nandler. 2010. "At the v of Justice and Sustaina	vaters edge": c ability, 15:7, 63	ommunity voices on clima 7-649, DOI: 10.1080/1354	te change, Local 9839.2010.4988	Environment: 10			
		Supporters:									
		1. Buku,	artikel ilmiah, dan sı	umber lain yang releva	n						
Support	ing	Abd. Kholiq, S	.Pd., M.T.								
lecturer		Mita Anggarya Utama Alan D	orapto, S.Pd., M.Pd., Ini, M.Pd., Ph.D. eta, S.Pd., M.Pd., M.	Pn.D. Si.							
	Fin	al abilitica of	_		Hear	elp Learning,					
Week-	eac	th learning	Eva	Evaluation		nt Assignments, stimated time]	materials	Assessment Weight (%)			
	(Su	b-PO)	Indicator	Criteria & Form	Offline(offline)	Online (online)	. 1				
(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)			
1	E> de	camining the evelopment of	Examining the development of photography	Criteria: Qualitative	Small Group Discussion	Small Group Discussion	Material: Development	5%			
	pn	ιοιοφιαρηγ	photography	Form of	2 x 50 minutes	2 x 50 minutes	of photography				
				Assessment . Participatory			Ang. 2018.				
				Activities			Photography:				
							Introduction, 5th edition.				
							DK, Dorling Kindersley.				
2	Ex ph	amining lotography	Examining photography	Criteria: Qualitative	Small Group Discussion	Small Group Discussion	Material: Photography	5%			
	the	eories	theories	Form of	2 x 50 minutes	2 x 50 minutes	theories Bibliography:				
				Assessment : Participatory			Tom Ang. 2018. Digital				
							Photography: An Introduction				
							5th edition. DK, Dorling				

3	Skilled in reviewing and using digital cameras	Skilled in reviewing and using digital cameras	Criteria: Qualitative Form of Assessment : Participatory Activities	Small Group Discussion 2 x 50 minutes	Small Group Discussion 2 x 50 minutes	Material: DSLR digital camera and Android cellphone camera Reader: Tom Ang. 2018. Digital Photography: An Introduction, 5th edition. DK, Dorling Kindersley.	5%
4	Skilled in reviewing and using digital cameras	Skilled in reviewing and using digital cameras	Criteria: Qualitative Form of Assessment : Participatory Activities	Small Group Discussion 2 x 50 minutes	Small Group Discussion 2 x 50 minutes	Material: DSLR digital camera and Android cellphone camera Reader: Tom Ang. 2018. Digital Photography: An Introduction, 5th edition. DK, Dorling Kindersley.	5%
5	Skilled in applying basic photography techniques using a digital camera (DSLR) or Android cellphone camera	Skilled in applying basic photography techniques using a digital camera (DSLR) or Android cellphone camera	Criteria: Qualitative Form of Assessment : Participatory Activities	Small Group Discussion 2 x 50 minutes	Small Group Discussion 2x 50 minutes	Material: Basic photography techniques using a digital camera (DSLR) or Android cellphone camera Reader: Tom Ang. 2018. Digital Photography: An Introduction, 5th edition. DK, Dorling Kindersley.	5%
6	Skilled in applying basic photography techniques using a digital camera (DSLR) or Android cellphone camera	Skilled in applying basic photography techniques using a digital camera (DSLR) or Android cellphone camera	Criteria: Qualitative Form of Assessment : Participatory Activities	Small Group Discussion 2 x 50 minutes	Small Group Discussion 2 x 50 minutes	Material: Basic photography techniques using a digital camera (DSLR) or Android cellphone camera Reader: Tom Ang. 2018. Digital Photography: An Introduction, 5th edition. DK, Dorling Kindersley.	5%
7	Skilled in applying basic photography techniques using a digital camera (DSLR) or Android cellphone camera	Skilled in applying basic photography techniques using a digital camera (DSLR) or Android cellphone camera	Criteria: Qualitative Form of Assessment : Participatory Activities	Small Group Discussion 2 x 50 minutes	Small Group Discussion 2 x 50 minutes	Material: Basic photography techniques using a digital camera (DSLR) or Android cellphone camera Reader: Tom Ang. 2018. Digital Photography: An Introduction, 5th edition. DK, Dorling Kindersley.	5%

8	Midterm Evaluation / Midterm Exam	 Examining the development of photography Examining photography theories Skilled in reviewing and using digital cameras Skilled in reviewing and using digital cameras Skilled in reviewing and using digital cameras Skilled in reviewing and using digital cameras Skilled in applying basic photography techniques using a digital camera (DSLR) or Android cellphone camera 	Criteria: Quantitative	Written Test 2 x 50 minutes	Written Test 2 x 50 minutes	Material: Mid- semester Evaluation Reader: Tom Ang. 2018. Digital Photography: An Introduction, 5th edition. DK, Dorling Kindersley.	10%
9	Examining the language of photography	Examining the language of photography	Criteria: Qualitative Form of Assessment : Participatory Activities	Small Group Discussion 2 x 50 minutes	Small Group Discussion 2 x 50 minutes	Material: The language of photography Reader: Tom Ang. 2018. Digital Photography: An Introduction, 5th edition. DK, Dorling Kindersley.	5%
10	Examining photovoice or photonovella theories	Examining photovoice or photonovella theories	Criteria: Qualitative Form of Assessment : Participatory Activities	Small Group Discussion 2 x 50 minutes	Small Group Discussion 2 x 50 minutes	Material: Photovoice or Photonovella Reader: Tom Ang. 2018. Digital Photography: An Introduction, 5th edition. DK, Dorling Kindersley.	5%
11	Skilled in applying photovoice in the field of physics	Skilled in applying photovoice in the field of physics	Criteria: Qualitative Form of Assessment : Participatory Activities	Small Group Discussion 2 x 50 minutes	Small Group Discussion 2 x 50 minutes	Material: Photovoice in the field of physics Reader: Tom Ang. 2018. Digital Photography: An Introduction, 5th edition. DK, Dorling Kindersley.	5%
12	Skilled at applying theory into photography physics mini- projects	Skilled at applying theory into photography physics mini- projects	Criteria: Qualitative	Small Group Discussion 2 x 50 minutes	Small Group Discussion 2 x 50 minutes	Material: Photography physics miniproject Reader: Tom Ang. 2018. Digital Photography: An Introduction, 5th edition. DK, Dorling Kindersley.	5%

13	Skilled at applying theory into photography physics mini- projects	Skilled at applying theory into photography physics mini- projects	Criteria: Qualitative Form of Assessment : Participatory Activities, Project Results Assessment / Product Assessment	Small Group Discussion 2 x 50 minutes	Small Group Discussion 2 x 50 minutes	Material: Photography physics miniproject Reader: Tom Ang. 2018. Digital Photography: An Introduction, 5th edition. DK, Dorling Kindersley.	5%
14	Skilled at applying theory into photography physics mini- projects	Skilled at applying theory into photography physics mini- projects	Criteria: Qualitative Form of Assessment : Participatory Activities	Small Group Discussion 2 x 50 minutes	Small Group Discussion 2 x 50 minutes	Material: Photography physics miniproject Reader: Tom Ang. 2018. Digital Photography: An Introduction, 5th edition. DK, Dorling Kindersley.	5%
15	Reporting a mini project on Physics in the context of photography physics in the form of a scientific article	Create scientific articles based on mini projects that have been implemented.	Criteria: Qualitative Form of Assessment : Project Results Assessment / Product Assessment	Small Group Discussion 2 x 50 minutes	Small Group Discussion 2 x 50 minutes	Material: Photography physics miniproject Reader: Tom Ang. 2018. Digital Photography: An Introduction, 5th edition. DK, Dorling Kindersley.	5%
16	Final Semester Evaluation / Final Semester Examination	Present scientific articles based on mini projects that have been implemented	Criteria: Qualitative Form of Assessment : Project Results Assessment / Product Assessment	2 x 50 minute Project Assignments	2 x 50 minute Project Assignments	Material: Final Semester Evaluation Literature: Books, scientific articles and other relevant sources	20%

Evaluation Percentage Recap: Project Based Learning

No	Evaluation	Percentage
1.	Participatory Activities	57.5%
2.	Project Results Assessment / Product Assessment	27.5%
		85%

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.
- 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.
- 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.
- 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
- 10. Learning indentias are dealts of descriptions of study indentials 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.