

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

Document Code

				:	SEMES	TER L	.EAF	RNIN	IG PL		J					
Courses				CODE		Course	Family		Credit \	Weigh	t	SEME	STER	C	Compilat	tion Date
Research	h met	nodology		8420403192					T=3 P	=0 E0	CTS=4.77		4	J	lanuary 3	3, 2024
AUTHOR	IZATI	ON		SP Develope	er			Course Cluster Coordinator		Study	Progra	m Coor	dinator			
				Prof. Dr. Achmad Lutfi, M.Pd				Prof. Dr. Suyono. M.Pd.			Prof. Dr. Utiya Azizah, M.Pd.			M.Pd.		
Learning model	I	Project Based L	earning													
Program		PLO study prog	gram w	which is charg	ged to the co	urse										
Learning Outcom (PLO)		PLO-5	Able to that ha	o make decisio as been carrieo	ns based on da I out both indiv	ata/informa idually and	ation in o I in group	rder to c os, has a	complete an entrep	tasks i reneur	that are th rial spirit w	eir respo vith an e	onsibility nvironm	/ and eva ental per	aluate pe rspective	rformance (CPL 7)
		Program Objec	tives (PO)												
		PO - 1			oncepts and cl e able to prepa									d types	of resea	rch and their
		PLO-PO Matrix														
P.O PLO-5 PO-1																
		PO Matrix at th	e end o	of each learn	ing stage (Su	ıb-PO)										
				P.0	1 2 3	4	5 6	6 7	8	Week 9		11	12 1	13 1	4 15	5 16
			PO	-1												
Short Course Descript	tion	A study of the na students to be sk includes research collection techniq	illed in i paradi	making decisio igms, framewo	ns and applyin rks of thinking,	g research hypothese	i method es and v	s to find ariables	alternati , populati	ve solı ion an	utions in s d samples	olving p s, resear	roblems	in the fi	eld of ed	lucation which
Referen	ces	Main :														
 Ary, Donald, et. Al. 1982. 1982.Metodologi penelitiani 2. Faisal,Sanapiah. 1982.Meto 3. Ferguson,George A. 1981. Shumway, Richard J (Ed.). Merriam, Sharan B, 1998.Q Moleong, Lexy J. 2004.Met Edisi IV. Yogyakarta : Rake Brannen, Julia. 1996.Mema Suharsini Arikunto. 1990.Mi TimPelatih Proyek PGSM. 1 10. TimUnesa. 2000.Buku Penu 11. Sumber lain yang relevan 				i penelitianPen . 1982.Metodo le A. 1981.Stat ard J (Ed.). 19 b B, 1998.Qual J. 2004.Metodo .arta : Rake Sa 1996.Memadu tto. 1990.Mana ek PGSM. 199 D.Buku Penulisa	didikan (Terjen logi Penelitian I istical Analysis 80. Researchin itatif Research logiPenelitian I rasin MetodePenelitia 9. Penelitian Tir	nahan oleh Pendidikan in Psychol Mathemati and Case s Kualitatif. E an Kualitat an. Jakarta ndakan Kel	n Sanapa logy and ics educa StudyAp Bandung: iff & Kual .:Penerbi as. Jaka	ah Faisa ya:Pene Educati ation. Re plicatior : Remaja itatif(Te t: PT Ri rta: Proj	I & Mulay erbit Usal on. Lond eston,Virç i in Educa a Rosdak rjemahan neka Cipt yek PGSI	yadi G ha Nas on: Mo ginia: 1 ation. 9 carya 8 n oleh I ta.	. Waseso) sional. cGraw-Hill Che Natior San Frans 3. Muhadji Kurde, N.	Surabay Internat hal Coun isco: Jos r, Noeng A, dkk)Y	va:Usah tional Bo ticil of Te ssey Ba J. 2000.I Yogyaka	a Nasior ook Com eacherso ss Publis Metodolo	nal pany. f Mathen sher ogiPeneli	natics, Inc. itian Kualitatif.
		Supporters:														
Support lecturer	ing	Prof. Dr. Achmad Dr. Muchlis, S.Pd														
Week- eac		l abilities of 1 learning e I-PO)	earning			& Form	Offl	Help Learning, Learning methods, Student Assignments, [Estimated time] Offline (Online (online)			L		materia rences]		Assessment Weight (%)	
(1)		(2)		(3)	(4)		offl	ine) 5)		(6)			((7)		(8)
(-)		(-)		(-)				-/		(~)				- /		191

1	Explain the basic concepts and characteristics of research	Explain the basic concepts and characteristics of research	Criteria: 1. The assessment is carried out on the following aspects: 2.1. Participation during lectures, carried out through observation (weight 2) 3.2. Sub- summative test, carried out twice assessing all relevant indicators through written examinations, averaged and weighted (2)) 4.3. Assignment assessment, scores are averaged, then weighted (3) 5.4. Summative tests are averaged as UAS scores, given a weight of (3) 6.5. The final NA is (participation value x2) UAS value x3) (UTS value x2) UAS value (3) divided by 10 Form of Assessment Assessment / Product Assessment	Expository questions and answers, discussions, assignments, presentations 3 X 50		Material: Basic concepts and research characteristics Reader: Faisal, Sanapiah. 1982. Educational Research Methodology. Surabaya: National Business Publishers.	5%
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2	Identifying the design of a research and its variables	1. Identify the research design and variables 2. Identify the problem 3. Formulate the problem	 Criteria: 1. The assessment is carried out on the following aspects: 2.1. Participation during lectures, carried out through observation (weight 2) 3.2. Sub- summative tests or mid-semester exams (UTS) are carried out to assess indicators 1-8 via written exams, and are given weighting (2) 4.3. Structured task assessments are averaged, then given a weight (3) 5.4. Collected papers are assessed with a weight of 3 	Expository questions and answers, discussions, assignments, presentations 3 X 50	Material: Research design and variables Reference: Suharsini Arikunto. 1990. Research Management. Jakarta:Publisher: PT Rineka Cipta.	5%
			semester exam (UAS) is used to measure the achievement of indicators 9-16, through a research proposal paper presentation exam, and the results are given a weight of 3 7. The final NA is (participation value x2) (Assignment value x3) (UTS value x 2) UAS value x 2) UAS value (3) divided Form of Assessment : Participatory Activities, Project Results Assessment / Product Assessment			

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Project Results Assessment / Product Assessment				assessed with a weight of 3 6.5. The final semester exam (UAS) is used to measure the achievement of indicators 9-16, through a research proposal paper presentation exam, and the results are given a weight of 3 7. The final NA is (participation value x2) (Assignment value x3) (UTS value x 3) (UTS value x 3) (UTS value x 3) divided by 10 Form of Assessment Participatory Activities, Project Results			

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4	Describe the types of research and their	1. Describe experimental	Criteria:	Expository		Material: Describe	5%
	characteristics	(quantitative)	1.The assessment	questions		experimental (quantitative)	
	ondituotenotios	research and its	is carried out on	and answers,		research and its procedures	
		procedures 2.	the following	discussions,		2. Describe qualitative	
		Describe qualitative	aspects:	assignments,		research and its procedures	
		research and its	2.1. Participation	presentations		References: Faisal,	
		procedures	during lectures,	3 X 50		Sanapiah. 1982. Educational	
			carried out			Research Methodology. Surabaya: National Business	
			through			Publishers.	
			observation			Fublishers.	
			(weight 2)				
			3.2. Sub-				
			summative tests				
			or mid-semester				
			exams (UTS) are				
			carried out to				
			assess indicators				
1			1-8 via written				
1			exams, and are				
1			given weighting				
1			(2)				
			4.3. Structured				
			task				
			assessments are				
			averaged, then				
			given a weight (3)				
			5.4. Collected				
			papers are				
			assessed with a				
			weight of 3				
			6.5. The final				
			semester exam				
			(UAS) is used to				
			measure the				
			achievement of				
			indicators 9-16,				
			through a				
			research				
			proposal paper				
			presentation				
1			exam, and the				
1			results are given				
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1			7.The final NA is				
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1			value (3) divided				
1			by 10				
1			5y 10				
			Form of Assessment				
1			: Participatory Activities,				
1			Project Results				
1			Assessment / Product				
			Assessment				
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5	Describe the types of research and their	Describe classroom action research and	Criteria:	Expository questions	Material: Describes classroom action research	10%
	characteristics	its procedures	1.The assessment	and answers,	and its procedures.	
		•	is carried out on	discussions,	Reference: Faisal,	
			the following	assignments,	Sanapiah. 1982. Educational	
			aspects:	presentations	Research Methodology.	
			2.1. Participation	3 X 50	Surabaya: National Business	
			during lectures, carried out		Publishers.	
			through			
			observation (weight 2)			
			3.2. Sub-			
			summative tests			
			or mid-semester			
			exams (UTS) are			
			carried out to			
			assess indicators			
			1-8 via written			
			exams, and are			
			given weighting			
			(2)			
			4.3. Structured			
			task			
			assessments are			
			averaged, then			
			given a weight (3)			
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			papers are			
			assessed with a			
			weight of 3			
			6.5. The final			
			semester exam			
			(UAS) is used to			
			measure the			
			achievement of			
			indicators 9-16,			
			through a research			
			proposal paper presentation			
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			by 10			
			Form of Assessment			
			: Deuticineten : Activitie -			
			Participatory Activities			
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a d tł	Choose a research approach and lesign according to he problem being solved	Planning Experimental Research (quantitative) and procedures	Criteria: 1. The assessment is carried out on the following aspects: 2.1. Participation during lectures, carried out through observation (weight 2) 3.2. Sub- summative tests or mid-semester exams (UTS) are carried out to assess indicators 1-8 via written exams, and are given weighting (2) 4.3. Structured task assessments are averaged, then given a weight (3) 5.4. Collected papers are assessed with a weight of 3 6.5. The final semester exam (UAS) is used to measure the achievement of indicators 9-16, through a research proposal paper presentation exam, and the results are given a weight of 3 7. The final NA is (participation value x2) (Assignment value x2) UAS value (3) divided by 10 Form of Assessment	Expository questions and answers, discussions, assignments, presentations 3 X 50		Material: Planning Experimental Research (quantitative) and procedures Reference: Suharsini Arikunto. 1990. Research Management. Jakarta:Publisher: PT Rineka Cipta.	10%
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7 Choose a research drigg mecording in drigg mecording in solved Planning CAR procedures Planning CAR procedures Systemstore is carried out on through observation Material: Planning CAR References: PCSM Project Training Team. 1999. Class Action Research and procedures sasignments, sasignments, aspects: Systemstore and answers, assignments, sasignments, assignments, assignments, assignments, sasignments, assint, assignments, assignments, assignments, as		1					
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value (3) divided by 10	1						
by 10				value x 2) UAS			
by 10				value (3) divided			
Form of Assessment							
				Form of Assessment			
				:			
Participatory Activities,				Participatory Activities.			
Project Results							
Assessment / Product							
Assessment	1						
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	concepts of research. 2. Identify the problem and problem formulation 3. Describe and plan experimental (quantitative) research and its procedures 4. Describe and plan qualitative research and its procedures 5. Describe Classroom Action Research and its procedures	 Criteria: 1. The assessment is carried out on the following aspects: 2.1. Participation during lectures, carried out through observation (weight 2) 3.2. Sub- summative tests or mid-semester exams (UTS) are carried out to assess indicators 1-8 via written exams, and are given weighting (2) 4.3. Structured task assessments are averaged, then given a weight (3) 5.4. Collected papers are assessed with a weight of 3 6.5. The final semester exam (UAS) is used to measure the achievement of indicators 9-16, through a research proposal paper presentation exam, and the results are given a weight of 3 7. The final NA is (participation value x2) (Assignment value x3) (UTS value x3) (UTS value x3) UTS value x3) UTS Form of Assessment 	description 3 X 50	research to classroom action research Reader: Suharsini Arikunto. 1990. Research Management. Jakarta:Publisher: PT Rineka Cipta.	
		Form of Assessment : Participatory Activities			

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9	Choose a research approach and	Describe development	Criteria:	Expository questions	Material: Research development and procedures	10%
	design according to	research and its	1.The assessment			
1	the problem being	procedures	is carried out on	and answers, discussions,	References: Faisal, Sanapiah. 1982. Educational	
	solved		the following	assignments,	Research Methodology.	
1			aspects:	presentations	Surabaya: National Business	
			2.1. Participation	3 X 50	Publishers.	
			during lectures,	3 × 30	Fublishers.	
			carried out			
			through			
			observation			
			(weight 2)			
			3.2. Sub-			
			summative tests			
			or mid-semester			
			exams (UTS) are			
			carried out to			
			assess indicators			
1			1-8 via written			
1			exams, and are			
			given weighting			
			(2)			
			4.3. Structured			
			task			
			assessments are			
			averaged, then			
			_ given a weight (3)			
			5.4. Collected			
			papers are			
			assessed with a			
			weight of 3			
			6.5. The final			
			semester exam			
			(UAS) is used to			
			measure the			
			achievement of			
			indicators 9-16,			
			through a			
			research			
			proposal paper			
			presentation			
1			exam, and the			
1			results are given			
1			a weight of 3 7.The final NA is			
1						
1			(participation value x2)			
1			(Assignment			
1			value x 3) (UTS			
1			value x 3) (015 value x 2) UAS			
1			value (3) divided			
1			by 10			
			by 10			
			Form of Assessment			
			:			
1			Participatory Activities,			
1			Project Results			
			Assessment / Product			
			Assessment			
L	1		L	1	1	

10	Develop a research conceptual framework and research proposal systematics	1. Describe the conceptual framework design and its implementation	Criteria: 1. The assessment is carried out on the following aspects: 2.1. Participation during lectures, carried out through observation (weight 2) 3.2. Sub- summative tests or mid-semester exams (UTS) are carried out to assess indicators 1-8 via written exams, and are given weighting (2) 4.3. Structured task assessments are averaged, then given a weight (3) 5.4. Collected papers are assessed with a weight of 3 6.5. The final semester exam (UAS) is used to measure the achievement of indicators 9-16, through a research proposal paper presentation exam, and the results are given a weight of 3 7. The final NA is (participation value x 2) UAS value (3) divided by 10 Form of Assessment	Expository, discussion 3 X 50		Material: Describe the design of the conceptual framework and its implementation . Reference:	5%
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11	Drafting an introductory chapter (background, problem statement, objectives, benefits, assumptions, limitations, operational definition)	1. Describe the introductory chapter and its manifestation	Criteria: 1. The assessment is carried out on the following aspects: 2.1. Participation during lectures, carried out through observation (weight 2) 3.2. Sub- summative tests or mid-semester exams (UTS) are carried out to assess indicators 1-8 via written exams, and are given weighting (2) 4.3. Structured	Expository questions and answers, discussions, assignments, presentations 3 X 50	Material: Describe the introductory chapter and its embodiment. Reference: Suharsini Arikunto. 1990. Research Management. Jakarta:Publisher: PT Rineka Cipta. Material: Describe the introductory chapter and its embodiment. Reference: Suharsini Arikunto. 1990. Research Management. Jakarta:Publisher: PT Rineka Cipta.	5%
			 5.4. Collected papers are assessed with a weight of 3 6.5. The final semester exam (UAS) is used to measure the achievement of indicators 9-16, through a research proposal paper presentation exam, and the results are given a weight of 3 7. The final NA is (participation value x2) (Assignment value x2) UAS value (3) divided by 10 Form of Assessment Participatory Activities 			

12	Dovelop a	1 Deceribe the	Critoria	Evpository	Matarial: Describe the	E04
12	Develop a theoretical	1. Describe the theoretical	Criteria: 1.The assessment	Expository questions	Material: Describe the theoretical	5%
	framework (literature	framework/literature	is carried out on	and answers,	framework/literature study	
	review chapter) that	review related to the research	the following	discussions,	related to the research	
	supports the problem	problem and its	aspects:	assignments,	problem and its	
	problem	manifestation	2.1. Participation	presentations	manifestation.	
			during lectures,	3 X 50	Reference: Ferguson,	
			carried out		George A. 1981. Statistical	
			through		Analysis in Psychology and	
			observation		Education. London: McGraw-	
			(weight 2)		Hill International Book	
			3.2. Sub-		Company.	
			summative tests			
			or mid-semester			
			exams (UTS) are			
			carried out to			
			assess indicators			
			1-8 via written			
			exams, and are			
			given weighting			
			(2)			
			4.3. Structured			
			task			
			assessments are			
			averaged, then			
			given a weight (3)			
			5.4. Collected			
			papers are			
			assessed with a weight of 3			
			6.5. The final			
			semester exam			
			(UAS) is used to			
			measure the			
			achievement of			
			indicators 9-16,			
			through a			
			research			
			proposal paper			
			presentation			
			exam, and the			
			results are given			
			a weight of 3			
			7.The final NA is			
			(participation			
			value x2)			
			(Assignment value x 3) (UTS			
			value x 3) (015 value x 2) UAS			
			value (3) divided			
			by 10			
			Form of Assessment			
			Participatory Activities			

13	Develop a design	4 December dec				
	(research design),	 Describe the research design 	Criteria:	Expository questions	Material: Describes research design and procedures	10%
	research	and procedures	1.The assessment			
	procedures and	including tools,	is carried out on	and answers,	including tools, research	
	create a relationship	research	the following	discussions,	instruments, collection	
	matrix between	instruments,	aspects:	assignments,	methods and data analysis	
	research data and	collection methods	2.1. Participation	presentations	techniques related to the	
	data analysis	and data analysis	during lectures,	3 X 50	research problem and its	
		techniques related to the research	carried out		realization.	
		problem and its	through		References: Faisal,	
		manifestation	observation		Sanapiah. 1982. Educational	
		mamootation	(weight 2)		Research Methodology.	
			3.2. Sub-		Surabaya: National Business	
					Publishers.	
			summative tests			
			or mid-semester			
			exams (UTS) are			
			carried out to			
			assess indicators			
			1-8 via written			
			exams, and are			
			given weighting			
			(2)			
			4.3. Structured			
			task			
			assessments are			
			averaged, then			
			given a weight (3)			
			5.4. Collected			
			papers are			
			assessed with a			
			weight of 3			
			6.5. The final			
			semester exam			
			(UAS) is used to			
			measure the			
			achievement of			
			indicators 9-16,			
			through a			
			research			
			proposal paper			
			presentation			
			exam, and the			
			results are given			
			a weight of 3			
			7.The final NA is			
			(participation			
			value x2)			
			(Assignment			
			value x 3) (UTS			
			value x 2) UAS			
			value (3) divided			
			by 10			
			Form of Assessment			
			:			
			Participatory Activities,			
			Project Results			
			Assessment / Product			
			Assessment			

14 Complex list of conduct research Describe references that are problem being researched and is problem being researched and is manifestation Firthe assessment is carried out on the following aspects: Expository references that are appropriate to the problem being researched and is prosentations of the problem being researched and is carried out on the following aspects: Stop References that are appropriate to the problem being researched and its presentations of the presentation of the presen		T			1		
Form of Assessment	14	references used to	references that are appropriate to the problem being researched and its	 is carried out on the following aspects: 2.1. Participation during lectures, carried out through observation (weight 2) 3.2. Sub- summative tests or mid-semester exams (UTS) are carried out to assess indicators 1-8 via written exams, and are given weighting (2) 4.3. Structured task assessments are averaged, then given a weight (3) 5.4. Collected papers are assessed with a weight of 3 6.5. The final semester exam (UAS) is used to measure the achievement of indicators 9-16, through a research proposal paper presentation exam, and the results are given a weight of 3 7. The final NA is (participation value x2) (Assignment value x 3) (UTS value x 2) UAS value (3) divided by 10 	questions and answers, discussions, assignments, presentations	references that are appropriate to the problem being studied and its manifestation. References: Ary, Donald, et. Al. 1982. Introduction to Educational Research (translation by Arief Furchan). Surabaya: National Enterprise 2. Best, John W. 1982. Research methodologyEducation (Translation by Sanapiah Faisal & Mulayadi G. Waseso) Surabaya: National	5%
Participatory Activities				Participatory Activities			

15	Preparing draft proposals and mentoring/mentoring	Describe the draft proposal in accordance with the results of reviewing thesis journals from various sources and its embodiment	 Criteria: The assessment is carried out on the following aspects: Participation during lectures, carried out through observation (weight 2) S.2. Sub-summative tests or mid-semester exams (UTS) are carried out to assess indicators 1-8 via written exams, and are given weighting (2) S.3. Structured task assessments are averaged, then given a weight (3) S.4. Collected papers are assessed with a weight of 3 S.5. The final semester exam (UAS) is used to measure the achievement of indicators 9-16, through a research proposal paper presentation exam, and the results are given a weight of 3 The final NA is (participation value x2) (Assignment value x3) (UTS value x 2) UAS value (3) divided by 10 	Group assignment 3 X 50		Material: Describe the draft proposal according to the results of reviewing the thesis journal from various sources and its implementation. References: Faisal, Sanapiah. 1982. Educational Research Methodology. Surabaya: National Business Publishers.	5%
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16	Take the Summative exam	Communicate and account for research designs that will be carried out related to current educational problems	 Criteria: 1. The assessment is carried out on the following aspects: 2.1. Participation during lectures, carried out through observation (weight 2) 3.2. Sub- summative tests or mid-semester exams (UTS) are carried out to assess indicators 1-8 via written exams, and are given weighting (2) 4.3. Structured task assessments are averaged, then given a weight (3) 5.4. Collected papers are assessed with a weight of 3 6.5. The final semester exam (UAS) is used to measure the achievement of indicators 9-16, through a research proposal paper presentation exam, and the results are given a weight of 3 7. The final NA is (participation value x2) (Assignment value x3) (UTS value x2) UAS value (3) divided by 10 	Presentation of 3 × 50 group papers		Material: Introduction to research to preparation of research proposals Reader: Suharsini Arikunto. 1990. Research Management. Jakarta:Publisher: PT Rineka Cipta.	5%
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Evaluation Percentage Recap: Project Based Learning

No	Evaluation	Percentage
1.	Participatory Activities	72.5%
2.	Project Results Assessment / Product Assessment	27.5%
		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.
- 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 4. 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.