

Universitas Negeri Surabaya Faculty of Education, Basic Education Masters Study Program

Document Code

SEMESTER LEARNING PLAN

Courses			CODE			(Cours	ourse Family			С	credi	t Wei	ght	s	SEMES	TER	Co	mpilati te	on
Developer Bu elementary se	yerj. Mathematic	s in	8612202114	Ļ					/ Study Ibjects		Т	=2	P=0	ECTS=4.4	18	2	2	Jun 202	ne 15, 20	
AUTHORIZAT	ION		SP Develop	er						Course Cluster Coordinator					5	Study Program Coordinator			r	
				riana, S.Pd., M.Sc., Ph.D. Dr. , M.Si. Rooselyna Ekawati, S.Si., h.D.				Si.,	Neni Mariana, S.Pd., M.Sc., Ph.D.					Neni Mariana, S.Pd., M.Sc., Ph.D.			·,			
Learning model	Project Based L	earnin	l Ig																	
Program	PLO study pro	gram	that is charg	ged t	o the	cour	se													
Learning Outcomes (PLO)	PLO-8		to make decis / humanities v															y atten	tion to a	and
	Program Objec	Program Objectives (PO)																		
	PO - 1		K 1 Utilizing I ols based on e									ery c	of mat	hematics	earn	ing dev	elopme	ent in e	lement	ary
	PO - 2	CPMK 2 Understand the concept of developing mathematics learning in elementary school, including the nature of elementary school mathematics in a constructivist manner																		
	PO - 3		K 3 Creating eracy literacy o			st ma	them	atics	learnin	ıg des	igns i	in el	emen	tary schoo	ls ba	ased on	ethno	mather	natics a	and
	PO - 4	CPM	K 4 Solve the	probl	em of	evalu	ating	math	ematic	s leari	ning i	in ele	ement	ary schoo	inno	ovatively and critically				
	PO - 5	CPM	K 5 Demonstr	ate a	respo	nsible	e attitu	ıde in	indivio	dual ar	nd gro	oup	assigi	nments by	avoid	ding pla	giarism	ı		
	PLO-PO Matrix																			
			P.O PO-1 PO-2 PO-3 PO-4 PO-5		PLC															
	PO Matrix at th	o ond	of each load	mine	L etad	o (Si		ור												
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		P	0-1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
		P	0-2																	
		P	O-3																	
		P	0-4																	
		P	O-5																	
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Short Course Description	Studies that disc mathematics, ele teaching plannin methods, develop and learning dev depth discussions	menta g, ass oment elopme	ry school mat essment in t Learners of N ent practices.	hema eachi Aathe The a	atics c ng, m matica assess	urricu Iulticu al Cor Sment	lum, i Itural ncepts is ca	under math (Nui rried	standii nematio mbers, out by	ng ma cs tea Meas involv	them ching surem ing st	atics g, us nent tude	s, tead se of and C nt act	ching throu technolog Geometry, ivity throug	igh p y an Presi gh as	roblem d medi entatior signme	solving a, dev and D nt pres	g, prob elopme Data Pr entatic	lem-bas ent des ocessir ons and	sed sign ng),
References	Main :																			
			1																	

		Erlangga Saddle I Pengeml 2. Reys, R.	2) Musser, Gary L & River, NJ: Prentice bangan dan Peranca	07. Matematika Sekolah & Burger, William F. 1997. -Hall 3) Kurikulum 2013 Ingan. Surabaya: PPS Sur odin, D. V., & Smith, N. L. :	Mathematics for mata pelajaran abaya	Elementary Teachers: A Matematika. 4) Siswor	A Contemporary App no, Tatag Y.E. (201	roach. Upper .7). Penelitian
		 Musser, River, NJ Kurikulur 	Gary L & Burger, W I: Prentice-Hall n 2013 mata pelajar	ngembangan Virtual Labo Villiam F. 1997. Mathema an Matematika. Penelitian Pengembangar	tics for Elementa	ary Teachers: A Conten	nporary Approach. L	•
Support lecturer		Dr. Endah Budi R Neni Mariana, S.I Prof. Rooselyna I	Pd., M.Sc., Ph.D.					
Week-	eac sta		Ev	aluation	Learr Studer	lp Learning, ning methods, nt Assignments, timated time]	Learning materials	Assessment Weight (%)
	(Su	b-PO)	Indicator	Criteria & Form	Offline(offline)	Online (online)	[]	
(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	es m so m lea	<pre>cplain the ssence of athematics and hool athematics arning, especially ementary schools</pre>	1. State the nature of mathematics learning in elementary schools; 2. State the functions and objectives of school mathematics learning, especially in elementary school; 3. Determine the meaning of doing/completing mathematics in elementary school conceptually and procedurally 4. Implement mathematics learning in elementary school	Criteria: 1. The selected questions have a score of 10 2.10 UTS questions 3. There are 10 UAS questions Form of Assessment : Participatory Activities	1. Student Active Learning2. Project Base Learning3. Cooperative Learning4. Problem Base Learning 5. Discussion, Lecture, and Question and Answer 6. Assignment and Presentation 2 X 50		Material: the essence of mathematics learning in elementary schools References: <i>Reys, R., Lindquist, M., Lambdin, DV, & Smith, NL 2017.</i> <i>Helping children learn</i> <i>mathematics.</i> <i>John Wiley &</i> <i>Sons.</i> Material: functions and objectives of learning mathematics and the meaning of doing/completing mathematics essays in elementary school conceptually and procedurally. References: 1) Van de Walle, <i>John A.</i> 2007. <i>Elementary and Midle School Mathematics.</i> (<i>Translation by</i> <i>Suyono).</i> Volumes 1 and 2. Jakarta: <i>Erlangga</i> 2) <i>Musser, Gary L & Burger,</i> <i>William F.</i> 1997. <i>Mathematics for Elementary Teachers: A Contemporary Approach. Upper Saddle River, <i>NJ: Prentice-Hall</i> 3) 2013 <i>Curriculum Mathematics</i> subject. 4) <i>Siswono, Tatag</i> <i>YE</i> (2017). <i>Development and Design Research.</i> <i>Surabaya: PPS</i> <i>Surabaya</i></i>	0%

					school References: 1) Van de Walle, John A. 2007. Elementary and Middle School Mathematics. (Translation by Suyono). Volumes 1 and 2. Jakarta: Erlangga 2) Musser, Gary L & Burger, William F. 1997. Mathematics for Elementary Teachers: A Contemporary Approach. Upper Saddle River, MJ: Prentice-Hall 3) 2013 Curriculum Mathematics subject. 4) Siswono, Tatag YE (2017). Development and Design Research. Surabaya: PPS Surabaya: PPS	
2	Explains learning theories in elementary schools and approaches to learning mathematics in elementary schools.	- Mentions learning theories, namely the theories of Bruner, Paiget, Dienes, Gagne, and Van Hiele - Mentions various learning approaches, namely contextual approaches, pMRI approaches, problem-solving approaches (problem based learning)	Criteria: 1. The selected questions have a score of 10 2.10 UTS questions 3. There are 10 UAS questions 4. Maximum value 100 Form of Assessment : Participatory Activities	1. Student Active Learning 2. Project Base Learning 3. Cooperative Learning 4. Problem Base Learning 5. Discussion, Lecture, and Question and Answer 6. Assignments and Presentations 2 X 50	Material: learning theories, namely the theories of Bruner, Paiget, Dienes, Gagne, and Van Hiele, various learning approaches, namely the contextual approach, open ended approach, problem solving approach (problem based learning) References: <i>Reys, R.,</i> <i>Lindquist, M.,</i> <i>Lambdin, DV, &</i> <i>Smith, NL 2017.</i> <i>Helping children learn</i> <i>mathematics.</i> <i>John Wiley &</i> <i>Sons.</i>	0%

3	Explains learning steps, use of media and creating math problems	Understanding the meaning of doing mathematics Designing and selecting effective tasks Developing problem solving strategies, teaching about solving mathematical problems	Criteria: 1. The selected questions have a score of 10 2.10 UTS questions 3. There are 10 UAS questions 4. Maximum value 100	1. Student Active Learning 2. Project Base Learning 3. Cooperative Learning 4. Problem Base Learning 5. Discussion, Lecture, and Question and Answer 6. Assignments and Presentations 2 X 50	Material: Steps for learning elementary school mathematics 2. learning media for elementary school mathematics 3. How to create elementary school mathematics 3. How to create elementary school mathematics questions References: 1) Van de Walle, John A. 2007. Elementary and Middle School Mathematics. (Translation by Suyono). Volumes 1 and 2. Jakarta: Erlangga 2) Musser, Gary L & Burger, William F. 1997. Mathematics for Elementary Teachers: A Contemporary Approach. Upper Saddle River, NJ: Prentice-Hall 3) 2013 Curriculum Mathematics subject. 4) Siswono, Tatag YE (2017). Development and Design Research. Surabaya: PPS Surabaya	0%
4	Examining elementary school mathematics learning	Examining low and high grade elementary school mathematics learning	Criteria: 1. The selected questions have a score of 10 2.10 UTS questions 3. There are 10 UAS questions 4. Maximum value 100 Form of Assessment : Participatory Activities, Practice/Performance	1. Student Active Learning 2. Project Base Learning 3. Cooperative Learning 4. Problem Base Learning 5. Discussion, Lecture, and Question and Answer 6. Assignments and Presentations 2 X 50	Material: Examining elementary school mathematics learning. References: 1) Van de Walle, John A. 2007. Elementary and Middle School Mathematics. (Translation by Suyono). Volumes 1 and 2. Jakarta: Erlangga 2) Musser, Gary L & Burger, William F. 1997. Mathematics for Elementary Teachers: A Contemporary Approach. Upper Saddle River, NJ: Prentice-Hall 3) 2013 Curriculum Mathematics subject. 4) Siswono, Tatag Y'E (2017). Development and Design Research. Surabaya: PPS Surabaya	5%

5	Master and skilled in Problem Based Learning Planning for Elementary School	1. Able to plan learning using the Problem Based Learning model for SD2. Skilled in implementing Problem Based Learning for Elementary Schools	Criteria: 1. The selected questions have a score of 10 2.10 UTS questions 3. There are 10 UAS questions 4. Maximum value 100 Form of Assessment : Portfolio Assessment	1. Student Active Learning2. Project Base Learning3. Cooperative Learning4. Problem Base Learning 5. Discussion, Lecture and Question and Answer 2 X 50	Material: Planning a Problem-Based Learning Model for Elementary Schools References: 1) Van de Walle, John A. 2007. Elementary and Middle School Mathematics. (Translation by Suyono). Volumes 1 and 2. Jakarta: Erlangga 2) Musser, Gary L & Burger, William F. 1997. Mathematics for Elementary Teachers: A Contemporary Approach. Upper Saddle River, NJ: Prentice-Hall 3) 2013 Curriculum Mathematics subject. 4) Siswono, Tatag YE (2017). Development and Design Research. Surabaya: PPS Surabaya	0%
6	Able to carry out planning and assessment processes in teaching mathematics in elementary schools	1. Able to plan the assessment process in the cognitive and psychomotor domains in accordance with K-13 in SD2. Able to carry out assessments during the mathematics learning process in elementary school based on the indicators prepared.	Criteria: 1. The selected questions have a score of 10 2.10 UTS questions 3. There are 10 UAS questions 4. Maximum value 100 Form of Assessment : Participatory Activities, Practice/Performance	1. Student Active Learning 2. Project Base Learning 3. Cooperative Learning 4. Problem Base Learning 5. Discussion, Lecture, and Question and Answer Assignments and group presentations 2 X 50	Material: Use of Technology and Media in implementing learning in elementary school 2. Presentation of media in learning Reference: <i>Reys, R.,</i> <i>Lindquist, M.,</i> <i>Lambdin, DV, &</i> <i>Smith, NL 2017.</i> <i>Helping children</i> <i>learn</i> <i>mathematics.</i> <i>John Wiley &</i> <i>Sons.</i>	5%
7	1) Creation and use of technology and media in implementing learning in elementary school	1. Students are able to use technology and media in implementing mathematics learning in SD2. Students are able to create and present simple media around the elementary school environment in mathematics learning in elementary school	Criteria: 1. The selected questions have a score of 10 2.10 UTS questions 3. There are 10 UAS questions 4. Maximum value 100	1. Student Active Learning2. Project Base Learning3. Cooperative Learning4. Problem Base Learning 5. Discussion, Lecture, and Question and Answer 6. Assignment and Presentation 2 X 50	Material: Assessment planning in Mathematics Teaching in Elementary Schools 2. Implementation of assessment in Mathematics Teaching in Elementary Schools Library: Mariana, Neni, et al. 2021. Virtual Development of the PGSD FIP Unesa Mathematics Cluster Laboratory. Research results report.	0%

8	Mastering Multicultural Mathematics Learning for Elementary Schools according to the K-13 curriculum. Implementation of USS	1. Students master multicultural learning and can apply it to learning in elementary school2. Able to master concepts and procedures in multicultural mathematics learning in SD3. Implementation of the U.S.S	Criteria: 1. The selected questions have a score of 10 2.10 UTS questions 3. There are 10 UAS questions 4. Maximum value 100 Form of Assessment : Portfolio Assessment, Test	1. Student Active Learning2. Project Base Learning3. Cooperative Learning4. Problem Base Learning 5. Discussion, Lecture, and Question and Answer 6. Assignment and Presentation 2 X 50	Material: Mid- semester Evaluation / Mid- Semester Exam References: 2013 Curriculum for Mathematics subjects.	30%
9	Master conceptually and procedurally in reviewing elementary mathematics learning	1. Students master conceptually in reviewing elementary mathematics learning 2. Students master procedurally in reviewing elementary mathematics learning	Criteria: 1.The selected questions have a score of 10 2.10 UTS questions 3.There are 10 UAS questions 4.Maximum value 100	1. Student Active Learning 2. Project Base Learning 3. Cooperative Learning 4. Problem Base Learning 5. Discussion, Lecture, and Question and Answer 6. Assignments and Presentations 2 X 50	Material: Multicultural Mathematics Learning for Elementary Schools according to the K-13 curriculum 2. Multicultural mathematics learning in elementary school conceptually and procedurally References: <i>Musser, Gary L</i> & <i>Burger,</i> <i>William F, 1997.</i> <i>Mathematics for</i> <i>Elementary</i> <i>Teachers: A</i> <i>Contemporary</i> <i>Approach. Upper</i> <i>Saddle River,</i> <i>NJ: Prentice-Hall</i>	0%
10	Mastering the Development of Learning the Concept of Mathematical Numbers in Elementary School	1. Students are able to classify numbers in elementary school which include rational numbers, whole numbers and fractions2. Students are able to calculate operations on whole numbers, whole numbers, and fractions conceptually and procedurally3. Students are able to apply in elementary school learning about whole numbers and fractions 4. Students are able to apply operations related to whole numbers and fractions in the form of story problems in everyday life. Students are able to use and create appropriate media regarding number operations in SD6. Students are able to apply the concepts of KPK and FPB in solving daily life problems	Criteria: 1. The selected questions have a score of 10 2.10 UTS questions 3. There are 10 UAS questions 4. Maximum value 100 Form of Assessment : Practice / Performance	1. Student Active Learning 2. Project Base Learning 3. Cooperative Learning 4. Problem Base Learning 5. Discussion, Lecture, and Question and Answer 6. Assignments and Presentations 2 X 50	Material: Examining elementary school mathematics learning Reader: Siswono, Tatag YE (2017). Development and Design Research. Surabaya: PPS Surabaya	5%

					-		
11	Mastering the	1. Students are	Criteria:	1. Student		Material:	0%
	Development of	able to	1.The selected	Active		Numbers 2.	
	Learning Geometry	conceptually and	questions have a	Learning 2.	1	Arithmetic	
	and Measurement	procedurally	score of 10	Project Base	1	operations 3.	
	Concepts in Elementary School	master flat shapes in	2.10 UTS questions	Learning 3.		Application of	
	Elementary School	elementary		Cooperative		integer numbers	
		school	3.There are 10 UAS	Learning 4.		4. Application of	
		(triangles,	questions	Problem		integer	
		quadrilaterals,	Maximum value	Base		operations in	
		trapezoids,	100	Learning 5.		daily life 5.	
		parallelograms		Discussion,		Media on	
		and kites) 2.		Lecture, and		number	
		Students are able to		Question and		operations 6.	
		conceptually and		Answer 6.		Application of	
		procedurally		Assignments		the concept of	
		master spatial		and		Corruption	
		shapes in		Presentations		Eradication	
		elementary		2 X 50		Committee and	
		school (prisms, pyramids and		27000		FPB	
		spheres) 3.				Reference:	
		Students are				Siswono, Tatag	
		able to				YE (2017).	
		conceptually and				Development	
		procedurally				and Design	
		master the area				Research.	
		and perimeter of flat shapes in				Surabaya: PPS	
		SD4. Students				Surabaya. PPS Surabaya	
		are skilled in				Sarabaya	
		applying					
		elementary					
		school learning					
		related to flat surfaces and					
		space 5.					
		Students are					
		able to master					
		conceptually and					
		procedurally the					
		congruence and congruence of					
		flat shapes at					
		SD6. Students					
		are able to					
		master					
		conceptually and					
		procedurally about symmetry					
		in SD7. Students					
		are able to					
		master					
		conceptually and procedurally the					
		transformation of					
		flat shapes in					
		elementary					
		school					
		(reflection,					
		rotation and dilation) 8.					
		Students are					
		able to					
		conceptually and					
		procedurally					
		master spatial					
		nets at SD9. Students are					
		able to master					
		conceptually and					
		procedurally the					
		measurement of					
		debit, speed and					
		time in elementary					
		school. 10					
		Students are					
		able to master					
		conceptually and					
		procedurally					
		social arithmetic (banks, postal					
		items, money					
		orders) in					
		elementary					
		school.					

12	Mastering conceptually and procedurally Development of Learning Statistical Concepts (Data Presentation and Processing)	1. Analyze data and its various types. 2. Master and be skilled at presenting data in the form of tables and diagrams in depth. 3. Master and be skilled in the concepts and procedures regarding frequency distribution and how to arrange it. 4. Mastering how to determine data centering measures (mean, mode and median) 5. Solving mathematical problems in statistics learning (how to present data in the form of tables and diagrams, as well as data concentration measures) during workshops on preparing learning tools.	Criteria: 1. The selected questions have a score of 10 2.10 UTS questions 3. There are 10 UAS questions 4. Maximum value 100 Form of Assessment : Participatory Activities	1. Student Active Learning 2. Project Base Learning 3. Cooperative Learning 4. Problem Base Learning 5. Discussion, Lecture, and Question and Answer 6. Assignments and Presentations 2 X 50	Material: flat shapes in elementary school (triangles, quadrilaterals, trapezoids, parallelograms and kites) space shapes in elementary school (prisms, pyramids and spheres) 3. area and perimeter of flat shapes in elementary school 4. flat planes and space 5. similarity and congruence of flat shapes in elementary school 6. symmetry in elementary school 7. transformation of flat shapes in elementary school 7. transformation of flat shapes in elementary school 7. transformation of flat shapes in elementary school 9. measurement of discharge and speed and time in elementary school 10. social arithmetic (banks, postal items, money orders) at SD Pustaka:	5%
13	Mastering conceptually and procedurally Learning Development of Capita Selecta Concepts (Number patterns, algebra, logic and counting)	1. Master the theoretical concepts of capita selecta material (number patterns, algebra, trigonometry, logic) in depth. 2. Master conceptual and procedural knowledge in capita selecta material (number patterns, algebra, trigonometry, logic) in depth. 3. Solving mathematical problems on capita selecta material (number patterns, algebra, trigonometry, logic). 4. Master the concept of speed and solve related problems 5. Master the concept of counting techniques and be skilled at solving related problems	Criteria: 1. The selected questions have a score of 10 2.10 UTS questions 3. There are 10 UAS questions 4. Maximum value 100 Forms of Assessment : Participatory Activities, Project Results Assessment / Product Assessment, Practices / Performance	1. Student Active Learning 2. Project Base Learning 3. Cooperative Learning 4. Problem Base Learning 5. Discussion, Lecture, and Question and Answer 6. Assignments and Presentations 2 X 50	and Design Research. Surabaya: PPS Surabaya Material: Data analysis Presentation of data in the form of tables and diagrams 3. Frequency distribution and how to arrange it. 4. Determining the size of data centralization 5. solving mathematical problems in statistics material 6. Developing statistics learning References: Mariana, Neni, et al. 2021. Virtual Development of the PGSD FIP Unesa Mathematics Cluster Laboratory. Research results report.	5%

14	Able to prepare mathematics learning tools in the form of low and high class lesson plans	1. Prepare or design a learning implementation plan (RPP) for elementary material based on the K-13 Curriculum for lower grades2. Prepare or design a learning implementation plan (RPP) for elementary mathematics material based on the K-13 Curriculum for high school	Criteria: 1. The selected questions have a score of 10 2.10 UTS questions 3. There are 10 UAS questions 4. Maximum value 100 Form of Assessment : Participatory Activities, Portfolio Assessment	1. Student Active Learning 2. Project Base Learning 3. Cooperative Learning 4. Problem Base Learning 5. Discussion, Lecture, and Question and Answer 6. Assignments and Presentations 2 X 50	Material: Capita Selecta, including Number Patterns, Algebra, Trigonometry, and Logic : Musser, Gary L & Burger, William F. 1997. Mathematics for Elementary Teachers: A Contemporary Approach. Upper Saddle River, NJ: Prentice-Hall	0%
15	Implementing practices for developing mathematics learning in elementary schools for lower and higher grades	1. Skilled and able to carry out mathematics learning practices in elementary school for lower classes2. Skilled and able to carry out mathematics learning practices in elementary school for high grades	Criteria: 1. The selected questions have a score of 10 2.10 UTS questions 3. There are 10 UAS questions 4. Maximum value 100 Form of Assessment : Project Results Assessment / Product Assessment	1. Student Active Learning 2. Project Base Learning 3. Cooperative Learning 4. Problem Base Learning 5. Discussion, Lecture, and Question and Answer 6. Assignments and Presentations 2 X 50	Material: Developing mathematics learning tools in the form of low and high class lesson plans. Library: 2013 Curriculum for Mathematics subjects.	50%
16					Material: Final Semester Evaluation / Final Semester Examination References: 1) Van de Walle, John A. 2007. Elementary and Middle School Mathematics. (Translation by Suyono). Volumes 1 and 2. Jakarta: Erlangga 2) Musser, Gary L & Burger, William F. 1997. Mathematics for Elementary Teachers: A Contemporary Approach. Upper Saddle River, NJ: Prentice-Hall 3) 2013 Curriculum Mathematics subject. 4) Siswono, Tatag YE (2017). Development and Design Research. Surabaya: PPS Surabaya	0%

Evaluation Percentage Recap: Project Based Learning

No	Evaluation	Percentage
1.	Participatory Activities	11.67%
2.	Project Results Assessment / Product Assessment	51.67%
3.	Portfolio Assessment	15%
4.	Practice / Performance	11.67%
5.	Test	15%
		100%

- 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.
- 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.