

## Universitas Negeri Surabaya Faculty of Economics and Business Digital Business Undergraduate Study Program

Document Code

Courses			CODE					Cour ami			Cred	dit W	eight	SE	MESTI	ER	Cor	npilatio e
cloud compu	ıting		612090303	5			5	Compulsory Study Program		T=0	P=0	ECTS=	:0	5		Jan 202	uary 23 3	
AUTHORIZA	TION		SP Develo	per				<del>Subje</del>	cts	Course Cluster Coordinator			Stu	Study Program Coordinator				
			Dr. Nanang Anita Safitr				oes A	bbror	i,		ka Dh om., I	enaba VI.M.	ayu,	Hu	jjatulla		urrahn 3A.	nan, S.E
_earning nodel	Project Based	Learnin	g															
Program	PLO study pr	ogram t	hat is charç	ged t	to th	е со	urse											
Learning Outcomes	Program Objectives (PO)																	
(PLO)	PO - 1																	
	PO - 2																	
-	PO - 3	CPMK3 Students are able to analyze and provide considerations regarding the management of Clou Computing																
	PLO-PO Matri	x																
		l	PO-1 PO-2 PO-3	      -			0.1											
	PO Matrix at t	he end	of each lea	rning	g sta	ige (	Sub-	PO)										
			D.O.									\\/aal						
			P.O	1	2	3	1	5	6	7	8	Weel 9	10 11	12	12	1.4	15	16
		PC	D-1	1		J	-+	J	J	1	U	9	10 11	12	13	14	10	10
		1 -	)-2							$\dashv$	$\dashv$		_					
		1 –	)-3								$\dashv$				+			
															1	1	1	
Short Course Description	This course of implementation securing cloud of	of cloud	d computing,	IAA	S, S	AAS	and	PAA	S co	ncept	s, clo							
References	Main :																	
References					uting	1 · M	anag	emer	nt. Im	plem	entati	on an	d Securi	v. Boo	a Rato	n. Fl	USA:	Taylor
References	1. Rittingh		lohn. Cloud (	Comp	Juling	, . ivi	cu.re.g		,					.y. =		,	, 00, 1.	rayioi

- Jamil, M, dkk. 2016. Cloud Computing: Teori dan Aplikasi. Indonesia: Deepublish.
   Afrianto, Dedy. 2017. The power of Own Cloud.: Andi Publishing
   Surianarayanan, Chelliah. 2019. Essentials of Cloud Computing. Switzerland: Springer Nature Switzerland AG.
- 4. Borko Furht, Armando Escalante, 2010. Handbook of Cloud Computing: Springer

## Supporting lecturer

Dr. Nanang Hoesen Hidroes Abbrori, S.T., M.T.I. Riska Dhenabayu, S.Kom., M.M. Anita Safitri, M. Kom.

Week-	Final abilities of each learning stage	Evalua	T	Lea Stud	Help Learning, arning methods, ent Assignments, Estimated time]	Learning materials	Assessment Weight (%)
	(Sub-PO)	Indicator	Criteria & Form	offline Online ( online )		[References]	Weight (70)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Students are able to explain, form opinions and differentiate regarding the Basic Concepts of Cloud Computing.	1.1.1 Appropriateness in explaining the definition of cloud computing 2.1.2 Suitability and accuracy in explaining and the ability to differentiate cloud models (public, private, hybrid)	Criteria: Holistic Rubric  Form of Assessment: Participatory Activities		Discussion Lecture	Material: Cloud Computing Bibliography: Rittinghouse, John. Cloud Computing: Management, Implementation and Security. Boca Raton, FL, USA: Taylor & Francis  Material: Cloud Computing: References: Jamil, M, et al. 2016. Cloud Computing: Theory and Applications. Indonesia: Deepublish.  Material: Cloud Computing Reader: Afrianto, Dedy. 2017. The power of Own Cloud.: Andi Publishing  Material: Cloud Computing Readers: Surianarayanan, Chelliah. 2019. Essentials of Cloud Computing. Switzerland: Springer Nature Switzerland AG.  Material: Cloud Computing Bibliography: Borko Furth, Armando Escalante, 2010. Handbook of Cloud Computing: Springer	10%

2	Students are able to explain, form opinions and differentiate regarding the Basic Concepts of Cloud Computing.	1.2.1. Accuracy and appropriateness in explaining the benefits and advantages of cloud services. 2.2.2. Accuracy and suitability in explaining and the ability to classify types of cloud services (SaaS, PaaS, and IaaS).	Criteria: Holistic Rubric  Form of Assessment: Participatory Activities	Discussion Lecture	Material: Cloud Computing Bibliography: Rittinghouse, John. Cloud Computing: Management, Implementation and Security. Boca Raton, FL, USA: Taylor & Francis  Material: Cloud Computing References: Jamil, M, et al. 2016. Cloud Computing: Theory and Applications. Indonesia: Deepublish.  Material: Cloud Computing References: Jamil, M, et al. 2016. Cloud Computing: Theory and Applications. Indonesia: Deepublish.  Material: Cloud Computing Reader: Afrianto, Dedy. 2017. The	5%
					Publishing  Material: Cloud Computing Readers: Surianarayanan, Chelliah. 2019. Essentials of Cloud Computing. Switzerland: Springer Nature Switzerland AG.  Material: Cloud Computing Bibliography: Borko Furht, Armando Escalante, 2010. Handbook of Cloud Computing: Springer	

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3	Students are able to explain, form opinions and differentiate regarding the Basic Concepts of Cloud Computing.	1.3.1. Suitability in explaining the trend of cloud computing and its development in the business world in the future. 2.3.2. Suitability in explaining how cloud computing is implemented in the business world, what digital businesses do with cloud computing.	Criteria: Holistic Rubric  Form of Assessment: Participatory Activities	Discussion Lecture	Material: Cloud Computing Bibliography: Rittinghouse, John. Cloud Computing: Management, Implementation and Security. Boca Raton, FL, USA: Taylor & Francis  Material: Cloud Computing References: Jamil, M, et al. 2016. Cloud Computing: Theory and Applications. Indonesia: Deepublish.  Material: Cloud Computing Reader: Afrianto, Dedy. 2017. The power of Own Cloud: Andi Publishing  Material: Cloud Computing Readers: Surianarayanan, Chelliah. 2019. Essentials of Cloud Computing. Switzerland: Springer Nature Switzerland AG.  Material: Cloud Computing Readers: Surianarayanan, Chelliah. 2019. Essentials of Cloud Computing Switzerland: Springer Nature Switzerland AG.  Material: Cloud Computing Switzerland AG.  Material: Cloud Computing Springer Nature Switzerland AG.	5%

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4	Students are able to study, evaluate and design Cloud Computing Architecture and Resources using Microsoft Azure.	1.4.1. Suitability in explaining Microsoft Azure cloud computing architecture. 2.4.2. Suitability and accuracy in explaining the main components of the Microsoft Azure cloud computing architecture.	Criteria: Holistic Rubric  Form of Assessment: Participatory Activities	Discussion Lecture	Material: Cloud Computing Bibliography: Rittinghouse, John. Cloud Computing: Management, Implementation and Security. Boca Raton, FL, USA: Taylor & Francis  Material: Cloud Computing References: Jamil, M, et al. 2016. Cloud Computing: Theory and Applications. Indonesia: Deepublish.  Material: Cloud Computing Reader: Afrianto, Dedy. 2017. The power of Own Cloud.: Andi Publishing  Material: Cloud Computing Readers: Surianarayanan, Chelliah. 2019. Essentials of Cloud Computing. Switzerland: Springer Nature Switzerland AG.  Material: Cloud Computing Readers: Surianarayanan, Chelliah. 2019. Essentials of Cloud Computing Switzerland: Springer Nature Switzerland AG.  Material: Cloud Computing Bibliography: Borko Furht, Armando Escalante, 2010. Handbook of Cloud Computing: Springer	5%

5	Students are able	1.5.1 Suitahility	Criteria:		Material: Cloud	5%
5	Students are able to study, evaluate and design Cloud Computing Architecture and Resources using Microsoft Azure.	1.5.1. Suitability and accuracy in explaining virtualization and data virtualization with Microsoft Azure 2.5.2. Ability to practice and create virtual machines and virtual networks	Criteria: Holistic Rubric  Form of Assessment: Participatory Activities	Discussion Lecture	Material: Cloud Computing Bibliography: Rittinghouse, John. Cloud Computing: Management, Implementation and Security. Boca Raton, FL, USA: Taylor & Francis  Material: Cloud Computing: References: Jamil, M, et al. 2016. Cloud Computing: Theory and Applications. Indonesia: Deepublish.  Material: Cloud Computing Reader: Afrianto, Dedy. 2017. The power of Own Cloud.: Andi Publishing  Material: Cloud Computing Readers: Surianarayanan, Chelliah. 2019. Essentials of Cloud Computing Switzerland: Springer Nature Switzerland AG.  Material: Cloud Computing Bibliography: Borko Furht, Armando Escalante, 2010. Handbook of Cloud Computing: Springer	5%

6	Students are able	1 0 4	Critoria		Matarial Claud	E04
6	Students are able to study, evaluate and design Cloud Computing Architecture and Resources using Microsoft Azure.	1.6.1. Appropriateness in explaining Azure cloud storage. 2.6.2. Ability to practice and create virtual machines and virtual networks. 3.6.3. Ability to practice, design and create cloud architecture and its components using Azure.	Criteria: Holistic Rubric  Form of Assessment: Participatory Activities	Discussion Lecture	Material: Cloud Computing Bibliography: Rittinghouse, John. Cloud Computing: Management, Implementation and Security. Boca Raton, FL, USA: Taylor & Francis  Material: Cloud Computing References: Jamil, M, et al. 2016. Cloud Computing: Theory and Applications. Indonesia: Deepublish.  Material: Cloud Computing Reader: Afrianto, Dedy. 2017. The power of Own Cloud.: Andi Publishing  Material: Cloud Computing Readers: Surianarayanan, Chelliah. 2019. Essentials of Cloud Computing. Switzerland: Springer Nature Switzerland AG.  Material: Cloud Computing Readers: Cloud Computing Readers: Surianarayanan, Chelliah. 2019. Essentials of Cloud Computing Switzerland: Springer Nature Switzerland AG.	5%

7	Students are able to study, evaluate	1.7.1.	Criteria: Holistic Rubric	Discussion Lecture	Material: Cloud Computing	5%
	and design Cloud Computing Architecture and Resources using Microsoft Azure.	Appropriateness in explaining Azure cloud security. 2.7.2. Compatibility in designing and configuring Azure cloud security.	Form of Assessment : Participatory Activities	Discussion Lecture	Bibliography: Rittinghouse, John. Cloud Computing: Management, Implementation and Security. Boca Raton, FL, USA: Taylor & Francis	
					Material: Cloud Computing References: Jamil, M, et al. 2016. Cloud Computing: Theory and Applications. Indonesia: Deepublish.	
					Material: Cloud Computing Reader: Afrianto, Dedy. 2017. The power of Own Cloud.: Andi Publishing	
					Material: Cloud Computing Readers: Surianarayanan, Chelliah. 2019. Essentials of Cloud Computing. Switzerland: Springer Nature Switzerland AG.	
					Material: Cloud Computing Bibliography: Borko Furht, Armando Escalante, 2010. Handbook of Cloud Computing: Springer	

8	Students prepare an Internship Activity Plan	Criteria: Holistic Rubric	Material: Cloud 10% Computing Bibliography:
	Report at the	Form of	Rittinghouse,
	company	Assessment:	John. Cloud
		Project Results	Computing:
		Assessment /	Management,
		Product	Implementation
		Assessment	and Security.
		7.63633116111	
			Boca Raton, FL,
			USA: Taylor &
			Francis
			Material: Cloud
			Computing
			References:
	1		Jamil, M, et al.
	1		2016. Cloud
	1		Computing:
	1		Theory and
	1		Applications.
			Indonesia:
			Deepublish.
			Material: Cloud
			Computing
			Reader:
			Afrianto, Dedy.
			2017. The
			power of Own
			Cloud.: Andi
			Publishing
			Material: Cloud
			Computing
			Readers:
			Surianarayanan,
			Chelliah. 2019.
	1		Essentials of
	1		Cloud
	1		Computing.
	1		Switzerland:
	1		Springer Nature
			Switzerland AG.
			Material: Cloud
	1		Computing
	1		Bibliography:
	1		Borko Furht,
	1		Armando
	1		Escalante,
			2010. Handbook
			of Cloud
	1		Computing:
			Springer

1.Students carry out internship activities at companies 2.Students are able to design cloud computing architecture and security according to real problems and needs in the business world	1.Able to analyze real problems and needs in the business world, specifically in the company where you are interning 2.Able to design cloud computing architecture according to the problems and needs of the internship company 3.Able to design cloud security according to the problems and needs of the internship company 3.Able to design cloud security according to the problems and needs of the	Criteria: Holistic Rubric  Form of Assessment : Assessment of Project Results / Product Assessment, Practices / Performance	Material: Cloud Computing Bibliography: Rittinghouse, John. Cloud Computing: Management, Implementation and Security. Boca Raton, FL, USA: Taylor & Francis  Material: Cloud Computing References: Jamil, M, et al. 2016. Cloud Computing: Theory and Applications. Indonesia: Deepublish.	5%
security according to real problems and needs in the business	2.Able to design cloud computing architecture according to the problems and needs of the internship company 3.Able to design cloud security according to the problems and		USA: Taylor & Francis  Material: Cloud Computing References: Jamil, M, et al. 2016. Cloud Computing: Theory and Applications. Indonesia: Deepublish.  Material: Cloud Computing Reader: Afrianto, Dedy. 2017. The power of Own Cloud.: Andi Publishing  Material: Cloud Computing Readers: Surianarayanan, Chelliah. 2019. Essentials of	
			Cloud Computing. Switzerland: Springer Nature Switzerland AG.  Material: Cloud Computing Bibliography: Borko Furht, Armando Escalante, 2010. Handbook of Cloud Computing: Springer	

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10	1.Students carry out internship activities at companies 2.Students are able to design cloud computing architecture and security according to real problems and needs in the business world	1.Able to analyze real problems and needs in the business world, specifically in the company where you are interning 2.Able to design cloud computing architecture according to the problems and needs of the internship company 3.Able to design cloud security according to the problems and needs of the internship company 4.Able to provide considerations for the implementation and management of cloud computing in accordance with the problems and needs of internship partners	Criteria: Holistic Rubric  Form of Assessment : Project Results Assessment / Product Assessment		Material: Cloud Computing Bibliography: Rittinghouse, John. Cloud Computing: Management, Implementation and Security. Boca Raton, FL, USA: Taylor & Francis  Material: Cloud Computing References: Jamil, M, et al. 2016. Cloud Computing: Theory and Applications. Indonesia: Deepublish.  Material: Cloud Computing Reader: Afrianto, Dedy. 2017. The power of Own Cloud.: Andi Publishing  Material: Cloud Computing Readers: Surianarayanan, Chelliah. 2019. Essentials of Cloud Computing. Switzerland: Springer Nature Switzerland AG.  Material: Cloud Computing Readers: Surianarayanan, Chelliah. 2019. Essentials of Cloud Computing Switzerland: Springer Nature Switzerland AG.	5%

11	1.Students carry	1.Able to analyze	Criteria:	Material: Cloud	5%
	out internship	real problems	Holistic Rubric	Computing	
	activities at	and needs in		Bibliography:	
		the business	Form of	Rittinghouse,	
	companies		Assessment :	John. Cloud	
	2.Students are	world,	Project Results	Computing:	
	able to design	specifically in	Assessment /	Management,	
	cloud	the company	Product		
	computing	where you are	Assessment	Implementation	
	architecture and	interning	Assessment	and Security.	
	security	2.Able to design		Boca Raton, FL,	
	,			USA: Taylor &	
	according to	cloud computing		Francis	
	real problems	architecture			
	and needs in	according to the		Material: Cloud	
	the business	problems and		Computing	
	world	needs of the		References:	
		internship		Jamil, M, et al.	
		company		2016. Cloud	
		3.Able to design		Computing:	
		cloud security		Theory and	
		according to the		Applications.	
		problems and		Indonesia:	
		needs of the		Deepublish.	
		internship			
		company		Material: Cloud	
				Computing	
		4.Able to provide		Reader:	
		considerations		Afrianto, Dedy.	
		for the		2017. The	
		implementation		power of Own	
		and			
		management of		Cloud. : Andi	
		cloud computing		Publishing	
		in accordance		Material: Cloud	
		with the		Computing	
		problems and			
		needs of		Readers:	
				Surianarayanan,	
		internship		Chelliah. 2019.	
		partners		Essentials of	
				Cloud	
				Computing.	
				Switzerland:	
				Springer Nature	
				Switzerland AG.	
				Material: Cloud	
				Computing	
				Bibliography:	
				Borko Furht,	
				Armando	
				Escalante.	
				2010. Handbook	
				of Cloud	
				Computing: Springer	

12	1.Students carry out internship activities at companies 2.Students are able to design cloud computing architecture and security according to real problems and needs in the business world	1.Able to analyze real problems and needs in the business world, specifically in the company where you are interning 2.Able to design cloud computing architecture according to the problems and needs of the internship company 3.Able to design cloud security according to the problems and needs of the internship company 4.Able to provide considerations for the implementation and management of cloud computing in accordance with the problems and needs of internship partners	Criteria: Holistic Rubric  Form of Assessment: Project Results Assessment / Product Assessment	Material: Cloud Computing Bibliography: Rittinghouse, John. Cloud Computing: Management, Implementation and Security. Boca Raton, FL, USA: Taylor & Francis  Material: Cloud Computing References: Jamil, M, et al. 2016. Cloud Computing: Theory and Applications. Indonesia: Deepublish.  Material: Cloud Computing Reader: Afrianto, Dedy. 2017. The power of Own Cloud.: Andi Publishing  Material: Cloud Computing Readers: Surianarayanan, Chelliah. 2019. Essentials of Cloud Computing. Switzerland: Springer Nature Switzerland AG.  Material: Cloud Computing Bibliography: Borko Furht, Armando Escalante, 2010. Handbook of Cloud Computing:	5%

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13	1.Students carry out internship activities at companies 2.Students are able to design cloud computing architecture and security according to real problems and needs in the business world	1.Able to analyze real problems and needs in the business world, specifically in the company where you are interning 2.Able to design cloud computing architecture according to the problems and needs of the internship company 3.Able to design cloud security according to the problems and needs of the internship company 4.Able to provide considerations for the implementation and management of cloud computing in accordance with the problems and needs of internship partners	Criteria: Holistic Rubric  Form of Assessment: Project Results Assessment / Product Assessment	Material: Cloud Computing Bibliography: Rittinghouse, John. Cloud Computing: Management, Implementation and Security. Boca Raton, FL, USA: Taylor & Francis  Material: Cloud Computing: References: Jamil, M, et al. 2016. Cloud Computing: Theory and Applications. Indonesia: Deepublish.  Material: Cloud Computing Reader: Afrianto, Dedy. 2017. The power of Own Cloud.: Andi Publishing  Material: Cloud Computing Readers: Surianarayanan, Chelliah. 2019. Essentials of Cloud Computing. Switzerland: Springer Nature Switzerland AG.  Material: Cloud Computing Readers: Surianarayanan, Chelliah. 2019. Essentials of Cloud Computing Switzerland: Springer Nature Switzerland AG.	5%

4.4					===
14	1.Students carry out internship	1.Able to analyze real problems	Criteria: Holistic Rubric	Material: Cloud Computing	5%
		•		Bibliography:	
	activities at	and needs in	Form of	Rittinghouse,	
	companies	the business	Assessment:	John. Cloud	
	2.Students are	world,	Project Results	Computing:	
	able to design	specifically in	Assessment /		
	cloud	the company	Product	Management,	
	computing	where you are	Assessment	Implementation	
	architecture and	interning	Assessment	and Security.	
	security	2.Able to design		Boca Raton, FL,	
	,	cloud computing		USA: Taylor &	
	according to	, ,		Francis	
	real problems	architecture			
	and needs in	according to the		Material: Cloud	
	the business	problems and		Computing	
	world	needs of the		References:	
		internship		Jamil, M, et al.	
		company		2016. Cloud	
		3.Able to design		Computing:	
		cloud security		Theory and	
		according to the		Applications.	
		•		Indonesia:	
		problems and		Deepublish.	
		needs of the		Бесриынын.	
		internship company		Material: Cloud	
		4.Able to provide		Computing	
		considerations		Reader:	
				Afrianto, Dedy.	
		for the		2017. The	
		implementation		power of Own	
		and		Cloud. : Andi	
		management of		Publishing	
		cloud computing			
		in accordance		Material: Cloud	
		with the		Computing	
		problems and		Readers:	
		needs of		Surianarayanan,	
		internship		Chelliah. 2019.	
		partners		Essentials of	
		partitors		Cloud	
				Computing. Switzerland:	
				Springer Nature	
				Switzerland AG.	
				Material: Cloud	
				Computing	
				Bibliography:	
				Borko Furht.	
				Armando	
				Escalante.	
				2010. Handbook	
				of Cloud	
				Computing:	
				Springer	

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15	1.Students carry out internship activities at companies 2.Students are able to design cloud computing architecture and security according to real problems and needs in the business world	1.Able to analyze real problems and needs in the business world, specifically in the company where you are interning 2.Able to design cloud computing architecture according to the problems and needs of the internship company 3.Able to design cloud security according to the problems and needs of the internship company 4.Able to provide considerations for the implementation and management of cloud computing in accordance with the problems and needs of internship partners	Criteria: Holistic Rubric  Form of Assessment: Project Results Assessment / Product Assessment		Material: Cloud Computing Bibliography: Rittinghouse, John. Cloud Computing: Management, Implementation and Security. Boca Raton, FL, USA: Taylor & Francis  Material: Cloud Computing References: Jamil, M, et al. 2016. Cloud Computing: Theory and Applications. Indonesia: Deepublish.  Material: Cloud Computing Reader: Afrianto, Dedy. 2017. The power of Own Cloud.: Andi Publishing  Material: Cloud Computing Readers: Surianarayanan, Chelliah. 2019. Essentials of Cloud Computing. Switzerland: Springer Nature Switzerland AG.  Material: Cloud Computing Readers: Surianarayanan, Chelliah. 2019. Essentials of Cloud Computing. Switzerland: Springer Nature Switzerland AG.	5%

16	Students prepare a Final Report on	Criteria:	Material: Cloud 15%
	Internship Activities	Holistic Rubric	Computing
	Internship Activities	F	Bibliography:
1		Form of	Rittinghouse,
		Assessment :	John. Cloud
		Assessment of	Computing:
		Project Results /	Management,
		Product	Implementation
		Assessment,	and Security.
		Practices /	Boca Raton, FL,
		Performance	USA: Taylor &
			Francis
			Material: Cloud
			Computing
			References:
			Jamil, M, et al.
			2016. Cloud
			Computing:
			Theory and
			Applications.
			Indonesia:
			Deepublish.
			Deepublisti.
			Material: Cloud
			Computing
			Reader:
			Afrianto, Dedy.
			2017. The
			power of Own
			Cloud. : Andi
			Publishing
			Material: Cloud
			Computing
			Readers:
			Surianarayanan,
			Chelliah. 2019.
			Essentials of
			Cloud
			Computing.
			Switzerland:
			Springer Nature
			Switzerland AG.
			Material: Cloud
			Computing
			Bibliography:
			Borko Furht,
			Armando
			Escalante,
			2010. Handbook
			of Cloud
			Computing:
			Springer

**Evaluation Percentage Recap: Project Based Learning** 

No	Evaluation	Percentage
1.	Participatory Activities	40%
2.	Project Results Assessment / Product Assessment	50%
3.	Practice / Performance	10%
		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.
- 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.
- 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.