



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

Document Code

SEMESTER LEARNING PLAN

Courses	CODE	Course Family	Credit Weight			SEMESTER	Compilation Date
financial technology	6120903021	Compulsory Study Program Subjects	T=0	P=0	ECTS=0	4	July 17, 2024
AUTHORIZATION	SP Developer		Course Cluster Coordinator			Study Program Coordinator	
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Learning model	Case Studies
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PLO study program which is charged to the course

PLO-2	Demonstrate the character of being tough, collaborative, adaptive, innovative, inclusive, lifelong learning and entrepreneurial spirit
PLO-3	Develop logical, critical, systematic and creative thinking in carrying out specific work in their field of expertise and in accordance with work competency standards in the field concerned
PLO-4	Develop yourself continuously and collaborate.
PLO-5	Able to master the theory of digital business thoroughly
PLO-6	Able to adapt to the context of digital business problems faced well
PLO-7	Able to develop digital business ideas creatively and innovatively
PLO-8	Able to develop knowledge in the field of digital business appropriately
PLO-9	Able to develop digital business based on entrepreneurial leadership in a sustainable manner
PLO-10	Able to implement digital business theory in managing organizations ethically and effectively
PLO-11	Able to apply information and communication technology in business management appropriately

Program Objectives (PO)

PO - 1	(C2) Understand the banking and financial ecosystem and the role of consumers in shaping the financial industry 5.0. C2) Understanding the banking and financial ecosystem and the role of consumers in shaping the financial industry 5.0.
PO - 2	(C2) Understand the FinTech landscape and infrastructure and explain the role of banks and financial service providers in shaping and responding to innovation and disruption. C2) Understand the FinTech landscape and infrastructure and explain the role of banks and financial service providers in shaping and responding to innovation and disruption
PO - 3	(C3) Evaluate relevant knowledge to create strategic analysis tools to identify the future state of the FinTech segment
PO - 4	(A5) Organize FinTech ideas by understanding the forces behind technological change in the financial industry. (A5) Organizing FinTech ideas by understanding the forces behind technological change in the financial industry.
PO - 5	(P5) Produce proposals for formulating realistic FinTech ideas. (P5) Generate realistic FinTech idea formulation proposals.

PLO-PO Matrix

P.O	PLO-2	PLO-3	PLO-4	PLO-5	PLO-6	PLO-7	PLO-8	PLO-9	PLO-10	PLO-11
PO-1	✓	✓	✓							
PO-2				✓	✓	✓				
PO-3				✓	✓	✓				
PO-4						✓	✓			
PO-5								✓	✓	✓

PO Matrix at the end of each learning stage (Sub-PO)

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P.O	Week															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	PO-1	✓	✓													
PO-2			✓	✓	✓	✓	✓									
PO-3								✓	✓	✓						
PO-4											✓	✓	✓			
PO-5														✓	✓	✓

Short Course Description	This course discusses the implications of technological advances for the current and future state of the financial industry. The goal is to spark a thought process of technological disruption and innovation and to uphold the notion that recent structural changes across the financial industry provide a spectrum of valuable internal and external opportunities. Case studies that will be explored include digital currency (bitcoin), settlement (blockchain), hedging as risk management, trading and financial advisory in FinTech.
References	<p>Main :</p> <ol style="list-style-type: none"> Susanne Chishti. 2016. The Fintech Book: The Financial Technology Handbook for Investors, Entrepreneurs and Visionaries. WILEY. Parag Y Arjunwankar. 2018. Fintech: The Technologi Driving Disruption in Financial Services Industry. Taylor-Francis. <p>Supporters:</p>
Supporting lecturer	Ika Diyah Candra Arifah, S.E., M.Com. Achmad Kautsar, S.E., M.M. Ina Uswatun Nihaya, S.E., M.Sc.

Week-	Final abilities of each learning stage (Sub-PO)	Evaluation		Help Learning, Learning methods, Student Assignments, [Estimated time]		Learning materials [References]	Assessment Weight (%)
		Indicator	Criteria & Form	Offline (offline)	Online (online)		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Students can understand the basic concepts of FinTech. Students can understand the basic concepts of FinTech	<ol style="list-style-type: none"> Mention the factors that cause the evolution of the financial services industry in the digital economy era, Mention the factors that cause the evolution of the financial services industry in the digital economy era Explain the differences between FinTech and conventional financial services. Explain the emergence of FinTech in payment, lending and asset management services. Explain the differences between FinTech and conventional financial services. Explain the emergence of FinTech in payments, lending and asset management services 	<p>Criteria: Criteria: Holistic Rubric Criteria: Holistic Rubric Technique: Non-test form, Summarize lecture material Technique: non-test form: Summarize topics material</p> <p>Form of Assessment : Participatory Activities, Tests</p>	<p>Read literature and listen to learner explanations. Read literature and peer discussions. Read literature and listen to lecturer explanations. Read literature and peer discussions 3 X 50</p>		<p>Material: The Basic Concepts of FinTech Reader: <i>Susanne Chishti. 2016. The Fintech Book: The Financial Technology Handbook for Investors, Entrepreneurs and Visionaries. WILEY.</i></p> <p>Material: The Basic Concepts of FinTech Reader: <i>Parag Y Arjunwankar. 2018. Fintech: The Technology Driving Disruption in the Financial Services Industry. Taylor-Francis.</i></p>	2%

2	Students can understand the main themes in Fintech. Students can understand FinTech Themes	<ol style="list-style-type: none"> 1. Knowing whether Banks Need to Collaborate or Compete? Banks Need to Think Collaboration Rather Than Competition 2. Knowing the Key to Global Compliance. Global Compliance is Key 3. Know the mechanism for providing loans in the 21st century. lending (Capital) in the 21st Century 4. Find out about FinTech Innovation and Digital Identity Cards. The Next Big Innovation in FinTech – Identity 5. Find out how Tech Giants Bank is 'Not' a Bank. Tech Giants Becoming Non-Bank Banks 6. Knowing how Fintech User Experience is a Choice. User Experience (UX) in FinTech 	<p>Criteria: Criteria: Holistic Rubric Criteria: Holistic Rubric Technique: Non-test form, Analyzing the innovation of one of the Fintech in Indonesia Technique: Analyzing the innovation of one of the Fintech in Indonesia</p> <p>Form of Assessment : Participatory Activities</p>	Read literature and listen to learner explanations. Read literature and peer discussions. Read literature and listen to lecturer explanations. Read literature and peer discussions 3 X 50		<p>Material: Technological Innovation and Disruption in FinTech</p> <p>Reference: <i>Parag Y Arjunwankar. 2018. Fintech: The Technology Driving Disruption in the Financial Services Industry. Taylor-Francis.</i></p> <hr/> <p>Material: 2. FinTech Themes</p> <p>Reader: <i>Susanne Chishti. 2016. The Fintech Book: The Financial Technology Handbook for Investors, Entrepreneurs and Visionaries. WILEY.</i></p>	2%
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3	Students can understand FinTech networks. Students can understand FinTech Hubs	<ol style="list-style-type: none"> 1. Knowing how to Nurturing New FinTech Communities - Nurturing New FinTech Communities 2. Find out how developed Fintech is in France - La (French) FinTech Connection 3. Find out how developed the Integrated FinTech Ecosystem is in the Netherlands - The Journey Towards an Integrated FinTech Ecosystem – The Netherlands 4. Find out how Luxembourg is a 'Candidate' for a Future FinTech Hub - Luxembourg, a Future FinTech Hub? 5. Knowing how Austria is the No. 1 FinTech Hub 1 in Mobile Payments - Vienna as the No. 1 FinTech Hub in Mobile Payments? 6. Find out what India's FinTech Ecosystem is like - India's FinTech Ecosystem 7. Find out what the FinTech Hub is like in Singapore and Southeast Asia - Singapore, the FinTech Hub for Southeast Asia 8. Find out how the Indonesian Fintech Ecosystem is - Fintech Hubs in Indonesia 	<p>Criteria: Criteria: Holistic Rubric Criteria: Holistic Rubric Technique: Non-test form, Analyzing the Indonesian Fintech Ecosystem Technique: Analyzing the Fintech Ecosystem in Indonesia</p> <p>Form of Assessment : Participatory Activities, Practice/Performance</p>	Read literature and listen to learner explanations. Read literature and peer discussions. Read literature and listen to lecturer explanations. Read literature and peer discussions 3 X 50		<p>Material: Technological Innovation and Disruption in FinTech Reference: <i>Parag Y Arjunwankar. 2018. Fintech: The Technology Driving Disruption in the Financial Services Industry. Taylor-Francis.</i></p> <hr/> <p>Material: 3. FinTech Hubs Reader: <i>Susanne Chishti. 2016. The Fintech Book: The Financial Technology Handbook for Investors, Entrepreneurs and Visionaries. WILEY.</i></p>	3%
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4	Students can explain market conditions and the social impact of Fintech in developing countries. Students can explain Emerging Markets and Social Impact	<ol style="list-style-type: none"> 1. Knowing that FinTech is a Versatile Mini Machine - FinTech: The Not So Little Engine That Can 2. Knowing how the poor are discriminated against in banking - Why Am I Not Gonna Be Able to Enter a Bank? 3. Knowing how the Rest of Post-WWII Countries Rise in Fintech - The Rise of the Rest in FinTech 4. Banking Models Via Smartphones, Fintech and Education - Smartphones, FinTech, and Education Helping the Unbanked 	<p>Criteria: Holistic Rubric Criteria: Holistic Rubric Technique: Non-test form, Analyze case studies on the development of fintech in developing countries Technique: non-test form, Analyze case studies on fintech in developing countries</p> <p>Form of Assessment : Participatory Activities, Tests</p>	Lecture Material and Discussion. Lectures and Discussion Material 3 X 50		<p>Material: FinTech Infrastructure Reader: Parag Y Arjunwankar. 2018. <i>Fintech: The Technology Driving Disruption in the Financial Services Industry.</i> Taylor-Francis.</p> <hr/> <p>Material: 4. Emerging Markets and Social Impact Reader: Susanne Chishti. 2016. <i>The Fintech Book: The Financial Technology Handbook for Investors, Entrepreneurs and Visionaries.</i> WILEY.</p>	3%
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5	Students can explain the solutions provided by FinTech in financial services. Students can explain Solutions provided by FinTech in financial services	<ol style="list-style-type: none"> 1.The Future of B2B Supply Chains In Rewiring the Deal - Rewiring the Deal : The Path Forward for B2B Supply Chains 2.MPayments and Point of Sales (POS) Innovation - Payments and Point of Sales (POS) Innovation 3.Predictive Algorithms - Building Innovative Online Banking Solutions - Predictive Algorithms Building Innovative Online Banking Solutions 4.Big Data - The Cornerstone of Regulatory Compliance Systems - Big Data is the Cornerstone of Regulatory Compliance Systems 5.FinTech Solutions in Complex Contracts Optimization - FinTech Solutions in Complex Contracts Optimization 6.Behavioral Biometrics: A New Era of Security - Behavioral Biometrics: A New Era of Security 	<p>Criteria: Criteria: Holistic Rubric Criteria: Holistic Rubric Technique: Non-test form, Analyze case studies on solutions offered by Fintech Technique: non-test form, Analyze case studies on fintech solutions</p> <p>Form of Assessment : Participatory Activities, Tests</p>	Lecture Material and Discussion. Lectures and Discussion Material 3 X 50		<p>Material: FinTech Infrastructure Reader: Parag Y Arjunwankar. 2018. <i>Fintech: The Technology Driving Disruption in the Financial Services Industry.</i> Taylor-Francis.</p> <hr/> <p>Material: FinTech Solutions Reader: Susanne Chishti. 2016. <i>The Fintech Book: The Financial Technology Handbook for Investors, Entrepreneurs and Visionaries.</i> WILEY.</p>	4%
6	Students can understand FinTech in the banking ecosystem. Students can understand FinTech in the banking ecosystem	<ol style="list-style-type: none"> 1.Explain the factors that cause banks to have FinTech platforms. Explain the factors that cause banks to have a FinTech platform 2.Explain the benefits and advantages of FinTech banking. Explain the benefits and advantages of FinTech banking 3.Explains the features and prospects of banking FinTech. Describe the features and prospects of banking FinTech 	<p>Criteria: Criteria: Holistic Rubric Criteria: Holistic Rubric Technique: Non-test form, Analyze case studies on fintech infrastructure Technique: non-test form, Analyze case studies on fintech infrastructure</p> <p>Form of Assessment : Participatory Activities, Tests</p>	Lecture Material and Discussion. Lectures and Discussion Material 3X50		<p>Material: Fintech in Banking Ecosystem Reader: Susanne Chishti. 2016. <i>The Fintech Book: The Financial Technology Handbook for Investors, Entrepreneurs and Visionaries.</i> WILEY.</p> <hr/> <p>Material: Fintech in Banking Ecosystem Reference: Parag Y Arjunwankar. 2018. <i>Fintech: The Technology Driving Disruption in the Financial Services Industry.</i> Taylor-Francis.</p>	4%

7	Students can explain the concepts and schemes of cryptocurrencies and blockchain in FinTech. Students can explain the concepts and schemes of cryptocurrencies and blockchain in FinTech	<p>1. Understand the meaning and types of cryptocurrency (bitcoin, altcoin, ethereum). Understanding the meaning and types of cryptocurrencies (bitcoin, altcoin, ethereum)</p> <p>2. Understand the meaning, models and benefits of blockchain for Fintech. Understanding the meaning, models and benefits of blockchain for Fintech</p>	<p>Criteria: Criteria: Holistic Rubric Criteria: Holistic Rubric Technique: Non-test form, Analyzing the development of cryptocurrencies and blockchain Technique: non-test form, Analyzing the development of cryptocurrencies and blockchain</p> <p>Form of Assessment : Participatory Activities, Tests</p>	Lecture Material and Discussion. Lectures and Discussion Material 3 X 50		<p>Material: Concept and Scheme of Cryptocurrencies Reader: <i>Susanne Chishti. 2016. The Fintech Book: The Financial Technology Handbook for Investors, Entrepreneurs and Visionaries. WILEY.</i></p> <p>Material: Concept and Scheme of Cryptocurrencies Reader: <i>Parag Y Arjunwankar. 2018. Fintech: The Technology Driving Disruption in the Financial Services Industry. Taylor-Francis.</i></p>	4%
8	Midterm Exam/Midterm Exam		<p>Form of Assessment : Test</p>	Doing UTS 3 X 50 questions			20%
9	Students can understand the development of FinTech regulations in Indonesia. Students can understand the development of FinTech regulations in Indonesia	<p>1. Understand the various governing and regulatory bodies that have legal and supervisory authority over Banks and FinTech. Understand the various regulations and regulatory bodies that have statutory and supervisory powers over Banks and FinTechs.</p> <p>2. Understand the role of FinTech in financial inclusion in Indonesia. Understand the role of FinTech in financial inclusion in Indonesia</p>	<p>Criteria: Criteria: Holistic Rubric Criteria: Holistic Rubric Technique: Non-test form, Analyze the role of fintech for financial inclusion in Indonesia Technique: non-test form, Analyze the role of fintech for financial inclusion in Indonesia</p> <p>Forms of Assessment : Participatory Activities, Project Results Assessment / Product Assessment</p>	Lecture Material and Discussion. Lectures and Discussion Material 3 X 50		<p>Material: FinTech Regulations Reader: <i>Susanne Chishti. 2016. The Fintech Book: The Financial Technology Handbook for Investors, Entrepreneurs and Visionaries. WILEY.</i></p> <p>Material: FinTech Regulations Bibliography: <i>Parag Y Arjunwankar. 2018. Fintech: The Technology Driving Disruption in the Financial Services Industry. Taylor-Francis.</i></p>	4%

10	Students can explain FinTech solutions for small and medium enterprise (SME) business development. Students can explain FinTech solutions for small and medium enterprise (SME) business development	1.Understand the types of FinTech services for small and medium enterprise (SME) business financing. Understand the types of FinTech services for financing small and medium enterprises (SME) businesses 2.Practicing organizing crowdfunding events in FinTech. Practice organizing crowdfunding events in FinTech	Criteria: Criteria: Holistic Rubric Criteria: Holistic Rubric Technique: Non-test form, Practicing crowdfunding to fund startup business projects. Practicing crowdfunding to fund startup business projects. Technique: non-test form, Compile and present. Technique: non-test form, Compile and present Forms of Assessment : Participatory Activities, Project Results Assessment / Product Assessment	Lecture Material and Discussion. Lectures and Discussion Material 3 X 50	Material: FinTech Solutions for Small and Medium Enterprise (SME) Business Development Reader: <i>Susanne Chishti. 2016. The Fintech Book: The Financial Technology Handbook for Investors, Entrepreneurs and Visionaries. WILEY.</i> Material: FinTech Solutions for Small and Medium Enterprise (SME) Business Development Reader: <i>Parag Y Arjunwankar. 2018. Fintech: The Technology Driving Disruption in the Financial Services Industry. Taylor-Francis.</i>	4%
11	Students can explain FinTech solutions for small and medium enterprise (SME) business development. Students can explain FinTech solutions for small and medium enterprise (SME) business development	1.Understand the types of FinTech services for small and medium enterprise (SME) business financing. Understand the types of FinTech services for financing small and medium enterprises (SME) businesses 2.Practicing organizing crowdfunding events in FinTech. Practice organizing crowdfunding events in FinTech	Criteria: Criteria: Holistic Rubric Criteria: Holistic Rubric Technique: Non-test form, Practicing crowdfunding to fund startup business projects. Practicing crowdfunding to fund startup business projects. Technique: non-test form, Compile and present. Technique: non-test form, Compile and present Form of Assessment : Assessment of Project Results / Product Assessment, Practices / Performance	Case Based Learning Lectures, Discussions and Practices. Case Based Learning Lectures, Discussions, and Practices 3 X 50	Material: FinTech Solutions for Small and Medium Enterprise (SME) Business Development Reader: <i>Susanne Chishti. 2016. The Fintech Book: The Financial Technology Handbook for Investors, Entrepreneurs and Visionaries. WILEY.</i> Material: FinTech Solutions for Small and Medium Enterprise (SME) Business Development Reader: <i>Parag Y Arjunwankar. 2018. Fintech: The Technology Driving Disruption in the Financial Services Industry. Taylor-Francis.</i>	4%

12	Students can design Fintech pitches to collect funds from the target market (crowdfunding). Students can design a Fintech pitch to collect funds from the target market (crowdfunding)	1.Understanding the pitching plan idea for Fintech start-ups, Understand the pitching plan idea for Fintech start-ups 2.Understanding the Fintech start-up Incubation process, Understanding the Fintech start-up Incubation process	Criteria: Criteria: Holistic Rubric Criteria: Holistic Rubric Technique: Non-test form, Develop pitching plan ideas for fintech start-up designs Technique: non-test form, Develop pitching plan ideas for fintech start-up designs Forms of Assessment : Participatory Activities, Project Results Assessment / Product Assessment	Practices 3 X 50		Material: Fintech Pitch and Crowdfunding Reader: Susanne Chishti. 2016. <i>The Fintech Book: The Financial Technology Handbook for Investors, Entrepreneurs and Visionaries.</i> WILEY. Material: Fintech Pitch and Crowdfunding Reader: Parag Y Arjunwankar. 2018. <i>Fintech: The Technology Driving Disruption in the Financial Services Industry.</i> Taylor-Francis.	4%
13	Students can design Fintech pitches to collect funds from the target market (crowdfunding). Students can design a Fintech pitch to collect funds from the target market (crowdfunding)	1.Understanding the pitching plan idea for Fintech start-ups, Understand the pitching plan idea for Fintech start-ups 2.Understanding the Fintech start-up Incubation process, Understanding the Fintech start-up Incubation process	Criteria: Criteria: Holistic Rubric Criteria: Holistic Rubric Technique: Non-test form, Develop pitching plan ideas for fintech start-up designs Technique: non-test form, Develop pitching plan ideas for fintech start-up designs Form of Assessment : Project Results Assessment / Product Assessment	Discussion & Practices 3 X 50		Material: Fintech Pitch and Crowdfunding Reader: Susanne Chishti. 2016. <i>The Fintech Book: The Financial Technology Handbook for Investors, Entrepreneurs and Visionaries.</i> WILEY. Material: Fintech Pitch and Crowdfunding Reader: Parag Y Arjunwankar. 2018. <i>Fintech: The Technology Driving Disruption in the Financial Services Industry.</i> Taylor-Francis.	4%

14	Students can explain the role of Big Data, Analytics and Artificial Intelligence in FinTech. Students can explain the role of Big Data, Analytics and Artificial Intelligence in FinTech	<ol style="list-style-type: none"> 1. Identifying the function of Big Data, Analytics and AI in Credit Scoring. Identify the functions of Big Data, Analytics and AI in Credit Scoring 2. Identifying the function of Big Data, Analytics and AI for Just-In-Time Information for investors. Identify Big Data, Analytics and AI functions for Just-In-Time Information for investors 3. Explaining the function of Big Data, Analytics 7 AI in transparent lending and consumer debt recovery. Explaining the functions of Big Data, Analytics 7 AI in transparent lending and consumer debt recovery 	<p>Criteria: Criteria: Holistic Rubric Criteria: Holistic Rubric. Technique: Non-test form, Analyzing big data case studies on banking credit scoring Technique: non-test form: Analyzing big data case studies on banking credit scoring</p> <p>Form of Assessment : Project Results Assessment / Product Assessment</p>	Case Based Learning Lectures and Discussions. Case Based Learning Lectures and Discussions 3 X 50		<p>Material: The Role of Big Data, Analytics and Artificial Intelligence in FinTech Reader: <i>Susanne Chishti. 2016. The Fintech Book: The Financial Technology Handbook for Investors, Entrepreneurs and Visionaries. WILEY.</i></p> <p>Material: The Role of Big Data, Analytics and Artificial Intelligence in FinTech Reader: <i>Parag Y Arjunwankar. 2018. Fintech: The Technology Driving Disruption in the Financial Services Industry. Taylor-Francis.</i></p>	4%
15	Students can understand FinTech risk management. Students can understand FinTech risk management	<ol style="list-style-type: none"> 1. Understand technology risks (IT and application security). Understand technology risks (IT and application security) 2. Understand the financial risks of FinTech. Understand FinTech financial risks 3. Understanding Enterprise Risk Management (ERM) FinTech. Understanding Enterprise Risk Management (ERM) FinTech 	<p>Criteria: Criteria: Holistic Rubric Criteria: Holistic Rubric. Technique: Non-test form, Develop an ERM plan for fintech case studies Technique: non-test form Develop an ERM plan for fintech case studies</p> <p>Form of Assessment : Participatory Activities</p>	Case Based Learning Lectures, Discussions and Practices. Case Based Learning Lectures, Discussions, and Practices 3 X 50		<p>Material: FinTech Risk Management Reader: <i>Susanne Chishti. 2016. The Fintech Book: The Financial Technology Handbook for Investors, Entrepreneurs and Visionaries. WILEY.</i></p> <p>Material: FinTech Risk Management Reader: <i>Parag Y Arjunwankar. 2018. Fintech: The Technology Driving Disruption in the Financial Services Industry. Taylor-Francis.</i></p>	4%
16	End of Semester Exam/Final Exam		<p>Criteria: End of Semester Exam/Final Exam</p> <p>Form of Assessment : Project Results Assessment / Product Assessment, Test</p>	Working on UAS 2 X 50 questions			30%

Evaluation Percentage Recap: Case Study

No	Evaluation	Percentage
1.	Participatory Activities	22%
2.	Project Results Assessment / Product Assessment	31%
3.	Practice / Performance	3.5%
4.	Test	43.5%
		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.
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.