

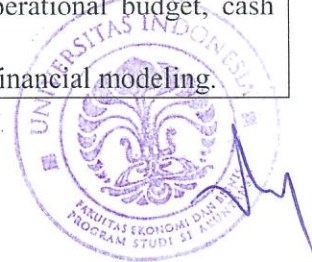


UNIVERSITAS INDONESIA  
FAKULTAS EKONOMI & BISNIS  
DEPARTMENT OF ACCOUNTING  
UNDERGRADUATE PROGRAM

**SYLLABUS**  
**FINANCIAL MODELING AND BUSINESS SIMULATION**  
**ECAU609108**  
**ODD SEMESTER 2020/2021**

Code	Lecturers	Emails
	<b>S1-Regular Class</b>	
A	M. Malik S.E., M.Ak., CPMA., CIA.	m.malik@ui.ac.id
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D	Reynardo Nainggolan S.E., M.B.A	reynardo.nainggolan@gmail.com
	Teguh Iman Maulana S.E., M.Sc.	teguh.im@ui.ac.id
E	Teguh Iman Maulana S.E., M.Sc	teguh.im@ui.ac.id
	Tubagus Muhamad Yusuf Khudri S.E., M.T.I., CA.	yusufkh@ui.ac.id
	<b>S1-Extension Class</b>	
A	M. Malik S.E., M.Ak., CPMA., CIA.	m.malik@ui.ac.id
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Subject Code	ECAU609108
Subject Title	Financial Modeling and Business Simulation
Credit Value	2
Level	3
Pre-requisite/ Co-requisite/ Exclusion	1. Strategy and Organization Performance Management (ECMU601048)
Role and Purposes	This course aims to provide understanding about concept and technical skills in designing Financial Modeling and Business Simulation.
Subject Learning Outcomes	<p>AACSB Learning Goal (LG) and Learning Objective (LO)</p> <p>LO: Students are able to apply technical competence in: Finance and Financial Management</p> <p>Trait:</p> <p>T3-LO3N-LG7. Able to apply business simulation and financial planning models to support strategic business decisions</p> <p>Upon completion of the subject, student will be able to:</p> <ol style="list-style-type: none"><li>1. Design business model canvas</li><li>2. Create financial model according the financial modeling best practices</li><li>3. Create scenario analysis and risk management in operational budget, cash budget and capital budgeting</li><li>4. Create macro and Visual Basic Application (VBA) in financial modeling.</li></ol>



5. Create simulation model in quantitative business decision.				
Syllabus	Week #	Topic	LO	Reading Materials
	1	<b>Active Lecturing:</b> PESTEL and Business Model Canvas  <b>Group Assignment:</b> <ul style="list-style-type: none"> <li>Students setup their groups</li> <li>Each Group consist of 3 students (max)</li> <li>Groups create a step by step financial model for a company</li> <li>Maximum two groups per week will present their progress (Week# 4-Week# 9)</li> <li>All Groups will present in week # 10</li> </ul> <b>Group Assignment Project:</b> Create Business Model Canvas and PESTEL Analysis for your company.	T3-LO3N-LG7	Lecture Notes
	2	<b>Active Lecturing and Hands-on Experience:</b>  Ms Excel for Financial Modeling <ul style="list-style-type: none"> <li>Financial Modeling Layout: Input-Calculation-Output, and Management Summary (Border and Fills)</li> <li>Index and Match as Lookup Function</li> <li>Logical Operator for Model Checking</li> <li>Data Validation</li> <li>Do we need "Plug and circular reference" in Financial Modeling?</li> <li>Developer Form Control: Combo Box, Check box</li> <li>Dynamic Chart</li> </ul>	T3-LO3N-LG7	DAL: Chapter 2 Chapter 3
	3	<b>Active Lecturing and Hands-on Experience:</b> Ms Excel for Financial Modeling <ul style="list-style-type: none"> <li>Capital Budgeting Model</li> <li>How do we know what are high impact inputs in Capital Budgeting Model?               <ul style="list-style-type: none"> <li>Goal Seek</li> </ul> </li> </ul>	T3-LO3N-LG7	Lecture Notes

		<ul style="list-style-type: none"> <li>Introduction to VBA</li> <li>Scenario Manager</li> </ul>		
	4	<b>Group Assignment Presentation (15 Minutes for two groups):</b> Present Your Business Model Canvas and PESTEL Analysis  <b>Active Lecturing and Hands-on Experience:</b> Create Input and Assumption Section in Financial Model  <b>Group Assignment Project:</b> Create Input Section in your model	T3-LO3N-LG7	ZZS Chapter 3
	5	<b>Group Assignment Presentation (20 Minutes for two groups):</b> Present Input Section in your model  <b>Active Lecturing and Hands-on Experience:</b> Calculation Section in Financial Model: Operating Budget  <b>Group Assignment Project:</b> Create Operating Budget in your model	T3-LO3N-LG7	ZZS Chapter 3
	<b>Mid Test</b>			
	6	<b>Group Assignment Presentation (40 Minutes for two groups):</b> Present Operating Budget in your model  <b>Active Lecturing and Hands-on Experience:</b> Calculation Section in Financial Model: Cash budget and Financing  <b>Group Assignment Project:</b> Create Cash budget and Financing in your model	T3-LO3N-LG7	ZZS Chapter 3
	7	<b>Group Assignment Presentation (25 Minutes for two groups):</b> Present Cash budget and Financing in your model	T3-LO3N-LG7	ZZS Chapter 3

		<b>Active Lecturing and Hands-on Experience:</b> Calculation Section in Financial Model: Direct Cash Flow Statement  <b>Group Assignment Project:</b> Create Direct Cash Flow Statement in your model		
	8	<b>Group Assignment Presentation (20 Minutes for two groups):</b> Present Direct Cash Flow Statement in your model  <b>Active Lecturing and Hands-on Experience:</b> Calculation Section in Financial Model: Budgeted Income Statement  <b>Group Assignment Project:</b> Create Budgeted Income Statement in your model	T3-LO3N-LG7	ZZS Chapter 3
	9	<b>Group Assignment Presentation (20 Minutes for two groups):</b> Present Budgeted Income Statement in your model  <b>Active Lecturing and Hands-on Experience:</b> <ul style="list-style-type: none"> <li>▪ Calculation Section in Financial Model: Budgeted Balance sheets and Financial Ratios</li> <li>▪ Output and Summary:               <ul style="list-style-type: none"> <li>• NPV, IRR, Payback Period</li> <li>• What if Analysis (Goal Seek, Data Table, Scenario Manager)</li> </ul> </li> </ul> <b>Group Assignment Project:</b> <ul style="list-style-type: none"> <li>• Create Budgeted Balance Sheets,</li> <li>• Calculate NPV</li> <li>• Create What If Analysis in your model</li> <li>• Create a professional Dashboard and navigation menus</li> </ul>	T3-LO3N-LG7	ZZS Chapter 3 Chapter 4  Lecture Notes

	10	<b>Final Presentation for All Groups (15 Minutes/groups):</b> Present Your Company Financial Model	T3-LO3N-LG7																									
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Teaching/Learning Methodology	1. Active Learning 2. Hands-on Experience 3. Group presentation <ul style="list-style-type: none"><li>Each Group consist of 3 student (max)</li><li>Maximum two groups per week will present their progress (Week# 4- Week# 9)</li><li>All Groups will present their Financial Model in week # 10</li></ul>																											
Assessment Method in Alignment with Intended Learning Outcomes	<table><tr><th>Specific Assessment Methods/Tasks</th><th>% Weighting</th><th>Intended Learning Outcome to be Assessed T3-LO3N-LG7</th></tr><tr><td><b>Continuous Assessment</b></td><td><b>100%</b></td><td></td></tr><tr><td><b>Individual</b></td><td><b>80%</b></td><td></td></tr><tr><td>Mid Term Exam</td><td>30%</td><td>√</td></tr><tr><td>Final Term Exam</td><td>30%</td><td>√</td></tr><tr><td>Quizzes and Discussion</td><td>20%</td><td>√</td></tr><tr><td><b>Group Assignment</b></td><td><b>20%</b></td><td>√</td></tr><tr><td>Final Project and Presentation</td><td>20%</td><td>√</td></tr></table>				Specific Assessment Methods/Tasks	% Weighting	Intended Learning Outcome to be Assessed T3-LO3N-LG7	<b>Continuous Assessment</b>	<b>100%</b>		<b>Individual</b>	<b>80%</b>		Mid Term Exam	30%	√	Final Term Exam	30%	√	Quizzes and Discussion	20%	√	<b>Group Assignment</b>	<b>20%</b>	√	Final Project and Presentation	20%	√
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Reading List and References	<b>Reading Materials Materials</b> 1. <b>Compulsory (Required):</b> Zubir, Zalmi, “Simulasi Bisnis Perusahaan Manufaktur”, Lembaga Penerbit FEUI, 2006 (ZZS). 2. <b>Supplementary:</b> Day, Alastair L. Mastering Financial Modelling in Microsoft Excel, 3rd ed. Harlow, United Kingdom: Pearson Education Ltd., 2013. (DAL)																											