



UNIVERSITAS INDONESIA
 FAKULTAS EKONOMI & BISNIS
 DEPARTMENT OF ACCOUNTING
 UNDERGRADUATE PROGRAM

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

Code	Lecturers	Emails
S1-Regular Class		
A	Reynardo Nainggolan, S.E., M.B.A.	reynardon@ui.ac.id
B	Catur Sasongko, S.E., M.B.A	
S1-International Class		
A	Siti Czafrani Pratiwi S.E., M.Acc	siticzafrani@ui.ac.id

Subject Code	ECAU609108
Subject Title	Financial Modeling and Business Simulation
Credit Value	2
Level	3
Pre-requisite/ Co-requisite/ Exclusion	<ol style="list-style-type: none"> 1. Business Analytics (ECAU 609105) 2. Financial Management (ECMU602004) 3. Financial Accounting 1 (ECAU601201) 4. Financial Accounting 2 (ECAU601203) 5. Cost Accounting (ECAU602101) 6. Management Accounting (ECAU602103)
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"> 1. Design business model canvas 2. Create financial model according the financial modeling best practices 3. Create scenario analysis and risk management in operational budget, cash budget and capital budgeting 4. Create macro and Visual Basic Application (VBA) in financial modeling. 5. Create simulation model in quantitative business decision.



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

		<ul style="list-style-type: none"> • How do we know what are high impact inputs in Capital Budgeting Model? <ul style="list-style-type: none"> ▪ Goal Seek ▪ Scenario Manager 		
	4	<p>Group Assignment Presentation (15 Minutes for two groups): Present Your Business Model Canvas and PESTEL Analysis</p> <p>Active Lecturing and Hands-on Experience: Create Input and Assumption Section in Financial Model</p> <p>Group Assignment Project: Create Input Section in your model</p>	T3-LO3N-LG7	ZZS Chapter 3
	5	<p>Group Assignment Presentation (20 Minutes for two groups): Present Input Section in your model</p> <p>Active Lecturing and Hands-on Experience: Calculation Section in Financial Model: Operating Budget</p> <p>Group Assignment Project: Create Operating Budget in your model</p>	T3-LO3N-LG7	ZZS Chapter 3
Mid Test				
	6	<p>Group Assignment Presentation (40 Minutes for two groups): Present Operating Budget in your model</p> <p>Active Lecturing and Hands-on Experience: Calculation Section in Financial Model: Cash budget and Financing</p> <p>Group Assignment Project: Create Cash budget and Financing in your model</p>	T3-LO3N-LG7	ZZS Chapter 3
	7	<p>Group Assignment Presentation (25 Minutes for two groups):</p>	T3-LO3N-LG7	ZZS Chapter 3

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

		<ul style="list-style-type: none"> Create a professional Dashboard and navigation menus 																										
	10	Final Presentation for All Groups (15 Minutes/groups): 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"> Each Group consist of 3 student (max) Maximum two groups per week will present their progress (Week# 4-Week# 9) All Groups will present their Financial Model in week # 10 																											
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Reading List and References	Reading Materials Materials <ol style="list-style-type: none"> Compulsory (Required): Zubir, Zalmi, "Simulasi Bisnis Perusahaan Manufaktur", Lembaga Penerbit FEUI, 2006 (ZZS). Supplementary: Day, Alastair L. Mastering Financial Modelling in Microsoft Excel, 3rd ed. Harlow, United Kingdom: Pearson Education Ltd., 2013. (DAL) Ross, Fundamentals of Corporate Finance 																											