

UNIVERSITAS INDONESIA FACULTY OF ECONOMICS AND BUSINESS DEPARTMENT OF ACCOUNTING UNDERGRADUATE PROGRAM

SYLLABUS

Analisis Keputusan Bisnis Analytics in Business Decision ECAU609102

EVEN SEMESTER 2020/2021

No.	Lecturer	E-mail		
1	Tubagus Yusuf Khudri			
2	Sally Taher	Sally.taher@redwhite-consulting.com		
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Subject Code	ECAU609102			
Subject Title	Analytics in Business Decision			
Credit Value	3			
Pre-requisite/				
Co-requisite/				
Exclusion				
Role and Purposes	This course provides business analytical competencies that can be used to prepare, analyze information for managerial decision making			
Subject Learning	Upon completion of the subject, student will have:			
Outcomes				
	Technical Competence in			
	 a. Accounting and Related field: be able explain how data & analytics, supported by information and technology, contributes to decision making in business environment. 			
	In details:			
	Students are able to understand and apply analytical framework for managerial decision making			
	Students are able to explain the background and process of business analytics			
	 Students are able to prepare and implement analytics processes for managerial decision making 			
	4. Students are able to explain and apply problem solving methods in business cases			

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Subject Synopsis/ Indicative Syllabus	6. : 7. :	Students are able to create evaluation framework for business decisions Students are able to design recommendation for certain business cases Students are able to visually present the thought process and recommendation for certain business cases Topic LO References				
	1	 Introduction to Business Analytics What is analytics? Why do we need analytics? Evolution in analytics Development stages in analytics 	а	Reading List & Reference: 1, 2, 3		
	2	 Introduction to Business Analytics Roles and application of analytics Business case: How is analytics applied? Case of Human Capital Analytics: Singapore Airlines Case of Customer Analytics:	a	Reading List & Reference: 1, 2, 3		
	3	Introduction to Analytics Concept: What, Why, and How?	а	Reading List & Reference: 1, 2, 3		
	4	What, Why, and How: What are we observing? Problem framing Types of business problems Recognising ambiguity & equivocality Descriptive data exercise	а	Reading List & Reference: 1, 2, 3		
	5	What, Why and How: Why is this happening? Diagnostic analytics T-Step process of problem solving Developing hypothesis	a	Reading List & Reference: 1, 2, 3		
	6	What, Why and How: Why is this happening? Mind mapping: Connecting the MAS LAND dots	100%	Reading List & Reference: 1, 2, 3		

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	Analytics case study: Cholera exerciseBusiness case study: Fraud		
	exercise		
7	 What, Why and How: How to take action? Validating hypothesis Identify analytics solution Impact vs Feasibility Defining success metrics 	а	Reading List & Reference: 1, 2, 3
	Mid Term Exam		
8	 What, Why and How: How to take action? Operationalisation Success monitoring Exercise: Making action plan Business case study: Analytics in life insurance 	a	Reading List & Reference: 1, 2, 3
9	Data Visualisation Visual data exploration Data storytelling Visual Vocabulary	а	Reading List & Reference: 6
10	 Data Visualization Presenting your idea with data: Tableau exercise Creative visual application in making presentation 	A	Reading List & Reference: 6
11	Design Thinking What is design thinking? Preparing your mind for innovation Generating idea Analytics experimentation Design thinking application	а	Reading List & Reference: 4, 5
12	Evaluation: Design recommendation Students will choose a business problem they want to focus on. Students will be asked to present their evidence and give solution. Lecturer will give feedback based on the presentation	а	
13	Evaluation: Design recommendation Students will choose a business problem they want to focus on. Students will be asked to present their evidence and give solution. Lecturer	a S INDO	

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		100000		ased on the		
	1.4	presentation Evaluation: Design recommendation				
					а	
				e a business		
		problem they want to focus on. Students will be asked to present their evidence and give solution. Lecturer will ask questions to evaluate				
		students' understanding Final Exam				
Teaching/Learning	This cou	ırse will use v	arious teach	ning/learning approach	including colls	horativo
Methodology	learning	/case-based l	earning	шідлеатшід арргоасі	i, including cond	iborative
		,				
Assessment						
Method in	Δ	ssessment	%	Intended Learning O	utcomes to be as	sessed
Alignment with			weight			
Intended Learning	6				а	
Outcomes	Group Final Pr	rainet	50%			
	Present		30%			
	Group Assignment 20 Individual 50 Mid Term Exam (closed book) Quiz 15		20%			
			50%			
			30%			
			15%			
	Active F	Participation	5%			
Student Study						
Effort Expected	Clas	s Contacts				
Errore Expected		Lectures			17.5 Hours	
		up Discussion				
		sentation & Cl	ace Discussi	on	10 Hours	
			033 DI3CU33I	011	7.5 Hours	
	Sub Total			35 Hours		
		Other student study effort				
		paration for di			25 Hours	
		pendent Stud	У		25 Hours	
Deadis a List and	Total				85 Hours	
	ading List and Required Readings:			_		
References	1. Evans, J. R. (2016). Business Analytics, Global			al Edition. [Vita		
		lookshelf].	-16 -1-1	Retrieved		from
				rce.com/#/books/978		
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3.	Adair, J. (2019). Decision Making and Problem Solving: Break Through Barriers and Banish Uncertainty at Work (Creating Success) (4th ed.). Kogan Page.
4.	Lewrick, M., Link P., Leifer L. (2018) The Design Thinking Playbook: Mindful Digital Transformation of Teams, Products, Services, Businesses and Ecosystems, Wiley
5.	Frisendal, T. (2014). Design Thinking Business Analysis: Business Concept Mapping Applied (Management for Professionals) (2012th ed.). Springer.
6.	Loth, A. (2019). Visual Analytics with Tableau (1st ed.). Wiley.