



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

SYLLABUS

Bisnis Digital dan Inteligensi Bisnis
 (Digital Business and Business Intelligence)
 ECAU 607208

EVEN SEMESTER 2018/2019

No.	Lecturer	E-mail
1	- Teguh Iman Maulana S.E., M.Sc. - Tubagus Muhamad Yusuf Khudri S.E., M.T.I., CA.	teguh.im@ui.ac.id yusufkhudri@gmail.com
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Subject Code	ECAU 607208
Subject Title	Digital Business and Business Intelligence
Credit Value	2
Pre-requisite/ Co-requisite/ Exclusion	Business Analytics
Role and Purposes	The course contributes to the achievement of Bachelor of Economics in Accounting learning goals by enabling students to apply technical competence in accounting related field (LG7). It also contributes in enabling students to have good oral communication skill (LG5) and to possess some traits of professional skills (LG8)
Subject Learning Outcomes	Upon completion of the subject, student will be able to Technical competence: in Information Technology a. Illustrate how information technology contributes to business processes

	<p>and decision making in business processes and their implications for the accounting profession.</p> <p>Communication skills</p> <p>b. Communicate clearly and concisely in presentation and discussion</p> <p>Students are expected to be able to display interpersonal skills</p> <p>c. display cooperation and teamwork when working towards team goals</p> <p>d. apply active listening</p> <p>e. present ideas and influence others to provide support and commitment</p> <p>Students are expected to be able to display personal skills</p> <p>f. demonstrate commitment to lifelong learning</p> <p>g. able to manage time to achieve personal and group commitments</p> <p>Students are expected to be able to display organizational skills</p> <p>h. Review own works and that of others to determine whether it complies with class' quality standards</p> <p>i. Apply leadership skills to influence others to work towards team's goal</p>
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Subject Synopsis/ Indicative Syllabus	Week #	Topic	LO	References
	1	Introduction: Digital Disruption and Accounting Professions	a, b, d, f	1, 2, 3,
	2	Data Analytics and Introduction to Programming	a, b, c, d, e, f	4, 5, 6, 7, 25, 26
	3	Internet of Things, Artificial Intelligence, Machine Learning, and Blockchain	a, b, c, d, e, f	8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22
	4	Case Study	a, b, c, d, e, f, g, h, i	8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20,

				21, 22																																																																																																				
	5	Case Study	a, b, c, d, e, f, g, h, i	8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22																																																																																																				
	6	Use case Programming: Variable Definition	a, b, d, f	25, 26																																																																																																				
	7	Use case Programming: Conditional Execution	a, b, d, f	25, 26																																																																																																				
	8	Use Case Programming: List and Array and Iteration	a, b, d, f	25, 26																																																																																																				
	9	Wrap Up: Programming Use Cases	a, b, d, f	25, 26																																																																																																				
	10	Reflective Study: How the technology can support accounting professions (CL, output: paper submission in group. Accounting Professions in: Public Sector, Corporate, Audit, Taxation)	a, b, c, d, e, f, g, h, i	23, 24																																																																																																				
Teaching/Learning Methodology	This course will use various teaching/learning approach, including collaborative learning for session 2-8, research based learning for session 9 and 10, and experiential learning for laboratory.																																																																																																							
Assessment Method in Alignment with Intended Learning Outcomes	<table border="1"> <thead> <tr> <th rowspan="2">Assessment</th> <th rowspan="2">% weight</th> <th colspan="10">Intended Learning Outcomes to be assessed</th> </tr> <tr> <th>a</th> <th>b</th> <th>c</th> <th>d</th> <th>e</th> <th>f</th> <th>g</th> <th>h</th> <th>i</th> <th></th> </tr> </thead> <tbody> <tr> <td>Group</td> <td>25%</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Group Presentation (Case Study)</td> <td>10%</td> <td>√</td> <td>√</td> <td>√</td> <td>√</td> <td>√</td> <td>√</td> <td>√</td> <td>√</td> <td>√</td> <td></td> </tr> <tr> <td>Group Discussion (before UTS)</td> <td>5%</td> <td>√</td> <td>√</td> <td>√</td> <td>√</td> <td>√</td> <td>√</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Final Exam (Group Paper)</td> <td>10%</td> <td>√</td> <td>√</td> <td>√</td> <td>√</td> <td>√</td> <td>√</td> <td>√</td> <td>√</td> <td>√</td> <td></td> </tr> <tr> <td>Individual</td> <td>75%</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Mid Exam (closed book)</td> <td>35 %</td> <td>70%</td> <td>30%</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>										Assessment	% weight	Intended Learning Outcomes to be assessed										a	b	c	d	e	f	g	h	i		Group	25%											Group Presentation (Case Study)	10%	√	√	√	√	√	√	√	√	√		Group Discussion (before UTS)	5%	√	√	√	√	√	√					Final Exam (Group Paper)	10%	√	√	√	√	√	√	√	√	√		Individual	75%											Mid Exam (closed book)	35 %	70%	30%								
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Reading List and References	<p>Required Readings:</p> <ol style="list-style-type: none"> 1. Technology Trends Impacting the Finance Function and the Profession – An Overview https://www.ifac.org/news-events/2017-05/technology-trends-impacting-finance-function-and-profession-overview 2. IMA & ACCA, Digital Darwinism: thriving in the face of technology change, 2013 https://www.imanet.org/insights-and-trends/technology-enablement/digital-darwinism-thriving-in-the-face-of-technology-change?ssopc=1 3. ACCA, Technology trends: their impact on the global accountancy profession, 2013 http://www.accaglobal.com/my/en/technical-activities/technical-resources-search/2013/may/technology-trends.html 4. McKinsey Global Institute, The Age Of Analytics: Competing In A Data-Driven World, 2016 http://www.mckinsey.com/business-functions/mckinsey-analytics/our-insights/the-age-of-analytics-competing-in-a-data-driven-world 5. IMA & ACCA, Big data: its power and perils, 2013 http://www.accaglobal.com/vn/en/technical-activities/technical-resources-search/2013/december/big-data-its-power-and-perils.html 6. IMA & ACCA, The Data Revolution, 2015 http://www.accaglobal.com/uk/en/professional-insights/technology/the-data- 																																																				

	<p>revolution.html</p> <ol style="list-style-type: none"> 7. CGMA, Business Analytics and Decision Making, The Human Dimension, 2016 http://www.cgma.org/resources/reports/business-analytics-and-decision-making.html 8. Deloitte University Press, Internet of Things: From sensing to doing, 2016 https://dupress.deloitte.com/dup-us-en/focus/tech-trends/2016/internet-of-things-iot-applications-sensing-to-doing.html 9. Deloitte University Press, Inside the Internet of Things (IoT), 2015 https://dupress.deloitte.com/dup-us-en/focus/internet-of-things/iot-primer-iot-technologies-applications.html 10. Deloitte University Press, Forging links into loops: The Internet of Things' potential to recast supply chain management, 2015 https://dupress.deloitte.com/dup-us-en/deloitte-review/issue-17/internet-of-things-supply-chain-management.html 11. McKinsey Global Institute, Artificial Intelligence, The Next Digital Frontier, 2017 (80 halaman) http://www.odjms.org/2017/08/artificial-intelligence-the-next-digital-frontier-mckinsey-global-institute-study/ 12. ICAEW IT Faculty, Artificial intelligence and the future of accountancy, 2017 https://www.icaew.com/en/technical/information-technology/technology/artificial-intelligence-the-future-of-accountancy 13. Deloitte University Press, Cognitive technologies Applications to solve traditional business problems , 2015 https://dupress.deloitte.com/dup-us-en/focus/signals-for-strategists/trends-cognitive-technology-business-issues.html 14. PWC, What does automation mean for the accounting profession? 2016 https://www.pwc.com/my/en/assets/press/1608-accountants-today-automation-impact-on-accounting-profession.pdf 15. CPA Canada, Technological Disruption of Capital Markets and Reporting?: An Introduction to Blockchain, 2016 https://www.cpacanada.ca/en/business-and-accounting-resources/other-general-business-topics/information-management-and-technology/publications/introduction-to-blockchain-technology 16. ACCA, Divided we fall, distributed we stand. The professional accountant's guide to distributed ledgers and blockchain, 2017 http://www.accaglobal.com/lk/en/technical-activities/technical-resources-search/2017/april/divided-we-fall-distributed-we-stand.html 17. CA Australia New Zealand, The Future of Blockchain: Applications And Implications Of Distributed Ledger Technology, 2017 https://www.charteredaccountantsanz.com/news-and-analysis/insights/future-inc/the-future-of-blockchain 18. EY, Building Blocks of the Future, 2016 http://www.ey.com/gl/en/services/assurance/ey-reporting-building-blocks-of-the-future 19. EY, Blockchain reaction. Tech companies plan for critical mass, 2016 http://www.ey.com/gl/en/industries/technology/ey-blockchain-reaction-tech-plans-for-critical-mass 20. EY, Implementing blockchains and distributed infrastructure, 2016 http://www.ey.com/gl/en/industries/financial-services/banking---capital-
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	<p>markets/ey-implementing-blockchains-and-distributed-infrastructure</p> <ol style="list-style-type: none">21. EY, The evolution of distributed ledgers and the future of financial services, 2016 http://www.ey.com/gl/en/industries/financial-services/banking---capital-markets/ey-the-evolution-of-distributed-ledgers22. AuditFuture, Unchaining the blockchain, 2016 http://auditfutures.org/panorama-1608/23. ACCA, Drivers of change and future skills, 2016 http://www.acca.ee/hk/en/professional-insights/pro-accountants-the-future/drivers-of-change-and-future-skills.html24. Deloitte Review, Navigating the future of work, 2017 https://dupress.deloitte.com/dup-us-en/deloitte-review/issue-21/navigating-new-forms-of-work.html25. Severance, Charles R, 2009, Python for Everybody, http://creativecommons.org/licenses/by-nc-sa/3.0/26. https://cognitiveclass.ai/
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