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## View Syllabus Information

Course Information					
	Year	2023	School	School of Commerce	
Course Title		Data Analytics for Business 1			
In	structor	KIM, Tae-Seok			
Term/Day	y/Period	spring semester Fri.3			
C	Category		Eligible Year	2nd year and above Credits	2
CI	assroom	11-602 Computer Room 2	Campus	waseda	
Cou	urse Key	1600004AH6	Course Class Code	01	
Main L	anguage	English			
Class Ca	Modality tegories	[On-campus]			
Cour	se Code	MANX381L			
First A dis	cademic sciplines	Management			
A dis	Second cademic sciplines	Management			
Third A dis	cademic sciplines	Others			
	Level	Advanced, practical and specialized	Types of lesson	Lecture	]
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Syllabus Information	Latest Update: 2023/01/13 18:01:59		
Course Outline	In recent years, data on individuals and organizations has become more ubiquitous than ever. In addition to the i ncrease in the availability and quantity of data, the types of data, including social relationships and textual infor mation, have become more diversified than ever. In this regard, the ability to understand and utilize data for deci sion makings in business contexts has become an important source of competitive advantage.		
	This course is designed to give a survey of different data analysis tools used in business and social science re search. Throughout the course, we will cover basic quantitative analysis, network analysis, and text analysis. Ea ch class session will be comprised of two components: 1) an introduction to the concepts of and tools for differ ent data analysis methods and 2) a hands-on demonstration of some of the data analyses using statistical soft ware. After each class, students will be assigned exercises to analyze datasets with the techniques learned in c lass. At the end of the semester, students will choose one ore more data analysis method learned in class to an alyze data and write a report.		
	The class will be conducted entirely in English.		
Objectives	<ul> <li>Students will learn different data analysis methods</li> <li>Students will learn how to use statistical software to analyze data.</li> <li>Students will learn how to interpret the results of data analysis.</li> </ul>		
before/after course of study	Assignments will be given after each class. In the assignment, student will use techniques learned in class to analyze data and write a su mmary of their analyses.		
Course Schedule	<ul> <li>1: 第1回 Course introduction The goal of this session is to introduce the course materials and get to know eac h other. I will present the detailed expectation of this course (e.g., course material, grading policies, etc.) Students will introduce themselves and share their back grounds and expectations for this course as well. By the end of this session, students should understand how the class will be carried out throughout the semest er. </li> <li>2: 第2回 htroduction to quantitative data analysis This session will cover the basics of data analytics, including the data structure, different types of variables, and basic data visualization. </li> <li>3: 第3回 Test statistics and measures This session will cover useful test statistics and measures that help researchers und erstand the patterns and relationships among variables in the data. 4: 第4回 Regression analysis This session will cover the basics of regression analysis, including the purpose, und erlying assumptions, interpretations, and applications in regression analysis. 5: 第5回 Applications of quantitative analysis in a research context This session will cover how quantitative analyses are used in social science research. 6: 第6回 Introduction to network analysis This session will cover the basics of network analysis, including basic network concepts and network visualization.</li></ul>		

	7: 第7回 Node-level measures			
	This session will cover different types of network measures at the node level. 8: 第8回 Network-level measures			
	This session will cover different types of network measures at the network level.			
	This session will cover how network analyses are used in social science research. 10:第10回 Introduction to text analysis			
	This session will cover the basics of text analysis, including the purpose of and basic procedures for conducting text analysis.			
	11: 第11回 Topic modeling			
	This session will cover the basics of topic modeling and its applications in researc h.			
	12: 第12回 Sentiment analysis & text similarity			
	This session will cover the usage of sentiment analysis and text similarity analysis in			
	research.			
	13: 第13回 Applications of text analysis in a research context			
	This session will cover how text analyses are used in social science research.			
	14: 第14回 Course summary			
	In this session, we will summarize what we have learned in this course so far.			
Textbooks	There are no formal textbooks for this course as of now. This may be updated, depending on the needs of the class.			
Evaluation	Rate Evaluation Criteria			
	Papers: 20% A final report in English: - Students will choose one or more data analysis methods learned in this course to analyze a given datase t. Students will submit a report of their analysis at the end of the semester.			
	Class Participation: 50% Weekly assignment: - After each class, students will analyze assigned data set and submit a mini report of their results.			
	Others: 30% Attendance and class participation: - Class attendance is critical for learning in this class because we will demonstrate data analysis in class and go through example exercises in class together. Plus, students will be evaluated on the basis of their p articipation in class in terms of engaging in class discussions.			
Note / URL	<ul> <li>The class will be conducted entirely in English.</li> <li>The content of current syllabus is subject to further change, if needed, to best accommodate the loarning goals.</li> </ul>			

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