科目授業名 Course Title		etrics (SPRING	)				
授業コード Class Code	B3E1440101						
担当者 Instructor	CHEN Ja	uer					
開講期 Semester / Year	2022年	度 春学期	キャンパ	ス Campu	ıs	第1キャンパス	ζ
曜日時限 Timetable	月曜4限	木曜4限	単位数(	Credits		4.0	
履修セメスター			科目ナン	バリング		M-ECN340	
Enrollment Semester			Course	Level		M-LCN340	
設置学科·研究科	入力の必	要はありません。	教務課で対	応します。			
Department / School	You do i	not need to fill	in. This sec	tion will l	be filled in	n by EAAO.	
授業内容 Course Description	and data analysis esting. Including s predic chine lead cation, a analysis hen disc data me	rse is divided in a quality, follow, and data visu. The second party probability metive analytics a arning methods and forecasting, starting with extends, and the	wed by orga alization, go t gives a the odels and to and introduce s such as ra g from time the potentia ents, differ event stuce	anizing ar eneralizir norough i ime-serie ces cross andom for -series da ial outcor rence-in- dy approa	nd cleaning from the street regressival date rest, probata. The mes fram difference cach.	ng data, exploine data, and lon to regress sions. The thion, LASSO, tropability predictions and care analysis, v	pratory data hypothesis t sion analysis rd part cove ee-based ma ction, classif overs causal usal maps, t various panel
到達目標(授業の狙い) Objectives	The course equips students with the most important tools, methods, and sk s they need through the entire process of data analysis to answer data-focued, real-life questions.						
関連科目や履修上望むこと Recommended Courses	Statistics 1 is recommended to take before registering for this course.						
学位授与と当科目との関連 Relevance to D.P.	入力の必要はありません。教務課で対応します。 You do not need to fill in. This section will be filled in by EAAO.						
単位制における学修時間 Coursework Time	入力の必要はありません。教務課で対応します。 You do not need to fill in. This section will be filled in by EAAO.						
			教科書				
	1	Te	extbooks	1			
使用の有無 Required textbooks	Yes	詳細 Additional Det	ails				
題名 Title	Data Analysis for Business, Economics, and Policy						
著者 Author	Gábor Békés and Gábor Kézdi						
出版社 Publisher	Cambridge University Press						
発行年 Year published	6 May 2021						
ISBN	978-1108716208						
金額 Price	USD\$ 55.24						
参考文献 Reference Books	Textbook website: https://gabors-data-analysis.com						
		ž	受業方法				
		Met	nod of Inst				
グループワーク Group Work	0	プレゼンテーショ Presentation	ン	0		ン、ディベート on, Debate	0
PBL(課題解決型学習) Project Based Learning	0	反転授業 Flip Teaching		0		ールドワーク , Field Work	Х
その他、詳細 Additional Details	Classes will be held in lecture style. Effective use of slides, providing visuals such as images and graphs may facilitate understanding. The class will also be centered on students' solutions to assigned hands-on problem sets in the tyle of presentations. Students will present on given hands-on assignments and each student will be asked to give a presentation at least three times throughout the semester.						

ļ		i	Utilization o	of Moodle		<del></del>		
小テスト Quiz		X	課題 Assignment	О	フォーラム Forum	x		
フィードバッ	<u>'</u> ク		調査		投票			
Feedback		0	Survey	Х	Choice	X		
その他、詳 Additiona	***	Class	aded to M	oodle.	·			
		授業		準備学修(事前·事後)				
	Co	ourse		Outside Class Study (Preparation/Revie w)				
第1回	Origins of Data				[Preparation] Read Topic 1 on Moodle to form thoughts.			
第2回	Preparing Data	for A	nalysis		[Preparation] Read Topic 2 on Moodle to form thoughts.			
第3回	Exploratory Dat	a Ana	alysis		[Preparation] Read Topic 3 on Moodle to form thoughts.			
第4回	Comparison and	d Corr	elation	[Preparation] Read Topic 4 on Moodle to form thoughts.				
第5回	Generalizing fro	m Da	ta		[Preparation] Read Topic 5 on Moodle to form thoughts.			
第6回	Testing Hypoth	eses			[Preparation] Prepare student presentat ion of the assigned hands-on problem se t.			
第7回	Simple Regressi	ion		[Preparation] Read Topics 7 and 8 on M oodle to form thoughts.				
第8回	Complicated Pa	ttern	s and Messy Data	[Preparation] Prepare student presentat ion of the assigned hands-on problem se t.				
第9回	Generalizing Re	sults	of a Regression	(Preparation) Read To Moodle to form thoug				
第10回	Multiple Linear	Regre	ssion	[Preparation] Prepare student presenta tion of the assigned hands-on problem s et.				
第11回	Modeling Proba	bilitie	s		[Preparation] Read Topics 11 and 12 on Moodle to form thoughts.			
第12回	Regression with	n Time	e Series Data		[Preparation] Prepare student presentat ion of the assigned hands-on problem se t.			
第13回	A Framework fo	or Pre	diction		[Preparation] Read Topics 13 and 14 on Moodle to form thoughts.			
第14回	Model Building 1	for Pro	ediction		[Preparation] Prepare student presentat ion of the assigned hands-on problem se t.			
第15回	Regression Tree	es			[Preparation] Read Topics 15 and 16 on Moodle to form thoughts.			
第16回	Random Forest	and E	Boosting	[Preparation] Prepare student presentat ion of the assigned hands-on problem se t.				
第17回	Probability Pred	diction	and Classification		[Preparation] Read Topics 17 and 18 on Moodle to form thoughts.			
第18回	Forecasting fro	m Tin	ne Series Data		[Preparation] Prepare student presentat ion of the assigned hands-on problem se t.			
第19回	A Framework fo	or Cau	sal Analysis		[Preparation] Read Topics 19 and 20 on Moodle to form thoughts.			
第20回	Designing and A	Analyz	zing Experiments		[Preparation] Prepare student presentat ion of the assigned hands-on problem se t.			
第21回	Regression and	Matc	hing with Observation	al Data	【Preparation】Read To	opics 21 and 22 or		

	[				Moodle to form thoughts.		
第22回 Difference-in-D					[Preparation] Prepare student presentat		
			ifferences		ion of the assigned hands-on problem se		
					t.		
第23回 Methods for Panel Data					[Preparation] Read Topics 23 and 24 on		
第23回	Metrio	15 IUI Fai	lei Data		Moodle to form thoughts.		
					[Preparation] Prepare student presentat		
第24回	Approp	oriate Co	ntrol Groups for	Panel Data	ion of the assigned hands-on problem se		
					t.		
第25回	Instrun	nental Va	ariables – Select	[Preparation] Read Topics 25 and 26 on			
711-01	S				Moodle to form thoughts.		
第26回 Instrumental					[Preparation] Prepare student presentat		
		nental Va	ariables – Hetero	ogeneous Effects	ion of the assigned hands-on problem se		
					t.		
			ariables – Local <i>i</i>	Average Treatment	[Preparation] Read Topic 27 on Moodle		
	Effect				to form thoughts.		
			_	成績評価基準			
		ı		valuation Component	is		
	平常点%		平常点詳細	Participation in the c	liscussion, effort in undertaking tasks.		
Class Eval	uation		Details				
試験%		30	試験詳細	A final examination will be held.			
	xamination		Details				
レポート%		0	レポート詳細 Details				
Report				e i .:			
その他% Others	その他% Othors				sed on student presentations (at least the		
Others Details ree			Details	ree times) of the assigned hands-on problem sets.			
試験・課題等フィードバック方法 Assignment Feedback		Feedback will b	e provided during cla	ss.			
		- coases 20 p. oridod daring diago.					
授業に関する質問への対応 Professor Contact Hours		- Please ask questions during class.					
		- I will answer questions via email as well. My email address will be announced					
		in class.					
特記事項 Remarks							
		Other important notes will be explained in the first and second classes.					
1							