variables.

- **‡PSGe**mploy mathematical techniques to assess the quality of data and find the suitable specification for different types of datasets.
 - Engage in lifelong learning, reflective thinking and self-assessment.
 - Communicate effectively in verbal, written and group contexts to a professional standard.

TEACHING STRATEGIES

The teaching strategies that will be used and their rationale. Give some suggested approaches to learning in the course.

(An example of the approaches to learning are)

Private Study	<	Review lecture material and textbook					
	<	Do set problems and assignments					
	<	Join Moodle discussions of problems					
	<	Reflect on class problems and assignments					
	<	Download materials from Moodle					
	<	Keep up with notices and find out marks via Moodle					
Lectures	<	Find out what you must learn					
	<	See methods that are not in the textbook					
	<	Follow worked examples					
	<	Hear announcements on course changes					
Workshops	<	Be guided by Demonstrators					
	<	Practice solving set problems					
	<	Ask questions					
Assessments	<	Demonstrate your knowledge and skills					
	<	Demonstrate higher understanding and problem solving					
Laboratory Work	<	Hands-on work, to set studies in context					

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COURSE PROGRAM

A table of lectures and workshops or practical class topics for each week, indicating the name of lecturer involved (where multiple lecturers teaching in course), online activities, such as discussion forums, and relevant readings from textbook and other reference material identified for the course.

Term 2 2020

Date	Торіс	Lecture Content	Demonstration Content		
04/06/2020	Introduction to transport	Basics of econometrics	Introduction to R		
(Week 1)	modelling	Review of statistics and			
	Statistical inference	probabilities			
		Statistical hypothesis testing			
11/06/2020	Statistical inference	Two-variable regression	Running regression in R		
(Week 2)	Regression analysis	assumptions			
		Dummy variables			
18/06/2020	Regression analysis	Multiple regression analysis	Running multiple regression		
(Week 3)		Multicollinearity	in R		
		Count data			
25/06/2020	Regression model	Heteroscedasticity	Heteroscedasticity and		
(Week 4)	troubleshooting	Autocorrelation	autocorrelation		
02/07/2020	Regression Model	Time series formulations and	Running time series in R		
(Week 5)	Time Series	Count Data			
09/07/2020		Flexibility week for all			
(Week 6)		courses (non-teaching)			
16/07/2020	Discrete choice	Basic definitions	Running logit with biogeme		
(Week 7)		Choice set			
		Logit models			
23/07/2020	Discrete choice	Nested logit	Running nested logit with		
(Week 8)			biogeme		
30/07/2020	Discrete choice	Ordered logit	Running survival analysis in		
(W∕e€li89)			biogeme		

Assignment 1 and quiz 1 – Linear regression Assignment 2 and quiz 2 – Count and time series regression Assignment 3 and quiz 3 – Discrete choice models

Format of the assignments:

- Have a cover letter.
- Each question starts from the top of the page

Reference your work appropriately, if not, you may be penalized for plagiarism.

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ASSESSMENT OVERVIEW

Item	Available date	Weighting	Learning outcomes assessed	Assessment Criteria (this needs to explicitly describe what students are expected to	Due date	Deadline for absolute fail	Marks returned
				demonstrate in the task)			
1.Quizzes		•				•	
Quiz 1	18/06/2020	3	Comprehensive	Students will be assessed	18/06/2020	18/06/2020	18/06/2020
	10:00		understanding of basic	based on the	10:15	10:15	10:15
			statistics and probabilities	accuracy and validity of their submitted			
				solutions to the questions.			
Quiz 2	25/06/2020	3	Understanding about the	Students will be assessed	25/06/2020	25/06/2020	25/06/2020
	10:00		basic assumptions	based on the	10:15	10:15	10:15
			behind linear regression models.	accuracy and validity of their submitted			
				solutions to the questions.			
Quiz 3	02/07/2020	3	Potential troubles resulting	Students will be assessed	02/07/2020	02/07/2020	02/07/2020
	10:00		from violating the	based on the	10:15	10:15	10:15
			assumptions and common remedies for	accuracy and validity of their submitted			
			them.	solutions to the questions.			
Quiz 4	16/07/2020	3	Time series regression and	Students will be assessed	16/07/2020	16/07/2020	16/07/2020
	10:00		count data	based on the	10:15	10:15	10:15
				submitted			
				solutions to the questions.			
Quiz 5	06/08/2020	3	Discrete choice modelling	Students will be assessed	06/08/2020	06/08/2020	06/08/2020
	10:00			based on the	10:15	10:15	10:15
				accuracy and validity of their submitted			
				solutions to the questions.			

2. Assessments

1

Assignment 1 11/06/2020 15

RELEVANT RESOURCES

Material essential for this course is provided in lecture notes available through Moodle. Suggested references are listed below:

- Gujarati, D.N. (2004) Basic Econometrics, 4th Edition, McGraw Hill
- Casella, G., and R.L. Berger (2001) Statistical Inference, 2nd Edition, Duxbury Press
- Train, K. (2009) Discrete Choice Methods with Simulation, 2nd Edition, Cambridge University Press

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