COURSE OUTLINE

Course Code / Title	:	HE4503 Policy Analysis Using Stata
Pre-requisites	:	HE3003 Econometrics II
No. of AUs.	:	4
Contact Hours	:	52

Course Aims

This course introduces the popular statistical software Stata© which is widely used by academics, business, and government agencies. The course is a Four-hour seminar course and usually consists of a two-hour introduction of the statistical procedures followed by a two-hour tutorial session (hands-on session).

Intended Learning Outcomes (ILO)

- 1. Familiar themselves with different kinds of statistical analyses
- 2. Conduct basic statistical analyses using Stata
- 3. Conduct and interprete econometric analyses in Stata
- 4. Design applied economic studies to evaluate policy impacts

Course Content

The main topics covered are: Review of statistical analyses and basic econometric analyses, Introduction and getting familiar with Stata*, Basic programming techniques, Programming in Stata*, Good practice in data management, Data management in Stata*, Using graphics to learn about data, Graphical display of data using Stata*, Conducting linear regression analysis in Stata*, Introduction to simulation, Basic simulation and policy analysis practice, Potential issues in linear regression analysis, Alternative approaches to address the potential issues, Some extensions of the linear regression model, Stata* implementation, IV analysis using Stata*, Potential issues in linear regression analysis, Alternative approaches to address the potential issues, Some extensions of the linear regression analysis, Alternative approaches to address the potential issues, Some extensions of the linear regression model, Stata* implementation, IV analysis using Stata*

Course Assessment

Total	100%
Quiz 2	: 10%
Quiz 1	: 10%
Assignment 2	: 30%
Assignment 1	: 30%
Class Participation	: 20%

Reading and References

Microeconometrics using Stata, (2022) – [CT] Volume 1: Cross-Sectional and Panel Regression Methods Auditor: A. Colin Cameron and Pravin K. Trivedi

NOTE: The above listing comprises the foundational readings for the course and more up-to-date relevant readings will be provided when they become available.

Planned Weekly Schedule

Week	Торіс	Course LO	Readings/ Activities
Week 1	Review of statistical analyses and basic econometric analyses and Introduction and getting familiar with Stata©	1,2,3,4	Lecture Notes/ Microeconometrics using Stata, (2022) – [CT]
Week 2	Basic programming techniques and Programming in Stata©	1,2,3,4	Lecture Notes/ Microeconometrics using Stata, (2022) – [CT]
Week 3	Good practice in data management and Data management in Stata©	1,2,3,4	Lecture notes/ Microeconometrics using Stata, (2022) – [CT]
Week 4	Using graphics to learn about data and Graphical display of data using Stata©	1,2,3,4	Lecture notes/ Microeconometrics using Stata, (2022) – [CT]
Week 5	Conducting linear regression analysis in Stata© (Part I)	1,2,3,4	Lecture notes/ Microeconometrics using Stata, (2022) – [CT]
Week 6	Conducting linear regression analysis in Stata© (Part II)	1,2,3,4	Lecture notes/ Microeconometrics using Stata, (2022) – [CT]

Week 7	Conducting linear regression	1,2,3,4	Lecture notes/				
	analysis in Stata© (Part III)		Microeconometrics using				
			Stata, (2022) – [CT]				
	Recess Week						
Week 8	Introduction to simulation and	1,2,3,4	Lecture notes/				
	Basic simulation and policy		Microeconometrics using				
	analysis practice (Part I)		Stata, (2022) – [CT]				
Week 9	Basic simulation and policy analysis	1,2,3,4	Lecture notes/				
	practice (Part II)		Microeconometrics using				
			Stata, (2022) – [CT]				
Week 10	Potential issues in linear regression	1,2,3,4	Lecture notes/				
	analysis and Alternative approaches		Microeconometrics using				
	to address the potential issues		Stata, (2022) – [CT]				
Week 11	Some extensions of the linear	1,2,3,4	Lecture notes/				
	regression model and Stata©		Microeconometrics using				
	implementation		Stata, (2022) – [CT]				
Week 12	IV analysis using	1,2,3,4	Lecture notes/				
	Stata© (Part I)		Microeconometrics using				
			Stata, (2022) – [CT]				
Week 13	IV analysis using	1,2,3,4	Lecture notes/				
	Stata© (Part II)		Microeconometrics using				
	and Q&A		Stata, (2022) – [CT]				
	session						