



London Interdisciplinary Social Science Doctoral Training Partnership Advanced Research Methods in Social Sciences

Course Code & Title	LISS245 Structural Equation Modelling Using MPlus		
Convenor(s)	Dr Martin Edwards, King's Business School		
Institution	King's College London	Department	LISS DTP & King's Business School
Academic Year	2018-19	Term	Spring
Number of Sessions	5	Length of Session(s)	7 hours
Day, Date		Start : End	Room Location
Monday 08 April 2019 Tuesday 09 April 2019 Wednesday 10 April 2019 Thursday 11 April 2019 Friday 12 April 2019		0900 : 1700	Bush House (S) 2.06, Strand London WC2R 1ES
Enrolment Link:	https://goo.gl/DbZXJy (You may be prompted to log into SkillsForge)		

Course Description:

This course covers structural equation modelling (SEM) using Mplus. It will include both taught and practical elements and will focus mainly on the analysis of questionnaire data.

This course is an extended version of the older course, which was limited to introducing SEM with Mplus, setting up simple Confirmatory Factor Analysis Models, basic Path Analysis and Structural Equation Models and a short lecture on "further issues". This new, extended version of the course will cover more advanced and sophisticated material such as mediation analysis, longitudinal CFA and latent class analysis.

Course Outline:

The mornings will generally involve 2 hours of lectures – followed by a 1-hour practical lecture/instruction.

The afternoon will involve a 2-hour laboratory workshops- with statistical modelling assignments for the attendees to get hands on experience of constructing and running analysis. The 5-days will cover the following topics:

Day 1 - Introduction to CFA and Structural Equation Modelling with M-plus, M-plus Data Management and file building, Importing Data into Mplus from SPSS – Practical, Path Analysis

Day 2 - Confirmatory Factor Analysis and M-plus, Full Structural Equation Modelling & M-plus, Multi-Group analysis

Day 3 - Mediation analysis and testing for indirect effects, bootstrapped, Moderation/interaction analysis with M-plus

Day 4 - Longitudinal CFA - Auto Correlation, Longitudinal Path analysis – Cross lagging, Longitudinal SEM, Latent Growth Models

Day 5 – Latent Class Analysis, Growth Mixture Modelling, Testing for Common Method Variance

Reading List:

Useful texts:

Geiser, C. (2013) Data Analysis with Mplus. Guildford Press.

Kline, R.B. (2010) Principles and Practice of Structural Equation Modeling: Third Edition, Guildford Press.

Eligibility & Pre-course preparation:

Prerequisites: Previous experience of statistical analysis up to and including multiple regression and exploratory factor analysis. Students who register should be ready to learn new software.

Number of students: 15